GEOCHEMICAL SAMPLING

on the

VAN GROUP, KLONE GROUP, MID CLAIM

OMINECA M.D.

N.T.S. 93-K/14W

Lat: 54° 54'N Long: 125° 24' W

by

U. MOWAT, B.Sc

for

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312 - 409 Granville St.,
Vancouver, B.C. V6C 1T2

January, 1988

ARIS SUMMARY SHEET

District Geologist, Prince George Off Confidential: 89.01.08

ASSESSMENT REPORT 17173 MINING DIVISION: Omineca

PROPERTY: Mount Sydney Williams
LOCATION: LAT 54 54 00 LONG 125 24 00
UTM 10 6086085 346103
NTS 093K14W
CLAIM(S): Van 1-2,Klone 1-2,Mid
OPERATOR(S): Lacana Min.
AUTHOR(S): Mowat, U.
REPORT YEAR: 1988, 95 Pages
COMMODITIES
SEARCHED FOR: Platinum,Gold
GEOLOGICAL
SUMMARY: The claims are underlain by ultramafic rocks consisting of dominantly harzburgite and minor dunite. Locally, small shear zones contain auriferous listwanite. Chromite occurs in the harzburgite as stockworks and veins, and as clots and disseminations in the dunite.

WORK
DONE: Geochemical,Physical,Prospecting
HMIN 9 sample(s) ;ME
LINE 5.0 km
PROS 1400.0 ha
Map(s) - 3; Scale(s) - 1:25 000,1:15 000
ROCK 302 sample(s) ;ME
Map(s) - 2; Scale(s) - 1:10 000
SILT 94 sample(s) ;ME
Map(s) - 2; Scale(s) - 1:10 000
SOIL 180 sample(s) ;ME
Map(s) - 2; Scale(s) - 1:5000
MINFILE: 093K 039,093K 043,093K 068,093K 072

Van

89

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FIGURES

FIGURES

INTRODUCTION

The Mount Sidney Williams area was brought to Lacana's attention in late 1986 as a possible platinum/gold prospect. The area is underlain by a crudely zoned ultramafic body consisting of harzburgite with minor primary dunite and an apparently structurally controlled olivine-enriched harzburgite. As well, numerous outcrops of poor quality jade and listwanite occur throughout the property.

The initial phase of exploration was carried out from July 17 - 24, 1987 by 4 men who collected 227 rock samples, 9 heavy mineral samples, 4 soils and 89 silts all of which were analyzed for 30 elements by I.C.P. and Au, Pt, Pd, Rh by fire assay and atomic absorption. During this phase of exploration the KLONE 1 claim was staked.

Only one sample from this exploration phase returned a slightly elevated Pt/Pd value. The major interest in the property became the auriferous listwanite zones associated with strong arsenic and/or antimony values. The elevated gold values in silts draining into and from Tear Drop Lake (maximum 396 ppb Au) plus a rock sample of listwanite (733 ppb Au) taken in the vicinity of Tear Drop Lake instigated a second trip to re-evaluate the more anomalous areas of the property.

From September 2 - 10, 1987, 2 men collected 148 soils, 5 silts and 32 rock samples. Thirty rocks, the soils and silts were analyzed for arsenic and gold. Two rock samples were analyzed for Pt only. Ten rock samples were also analyzed for Pb and Sb in addition to the Au and As following the discovery of stibnite in a vertically dipping zone of listwanite.

The KLONE 2 claim was staked during the second phase of exploration to cover anomalous gold values discovered during prospecting and sampling in July.

On October 22, 1987, a third exploration phase was instigated due to the discovery of additional anomalous gold values in the listwanite. Four men spent from October 22 - 28, 1987 re-sampling anomalous zones discovered in September, establishing a grid in order to tie in the anomalous zones and staking the ONE-EYE 1 Claim.

Forty-three rock samples and 28 soils were collected during the re-sampling of anomalous areas. As well 2 rocks and 1 silt were taken from the ONE-EYE 1 during staking. All samples were analyzed for Au and As.

A small grid was established on the KLONE 1 claim in order to tie in the anomalous gold values. Lines were spaced 100 metres apart and stations were flagged in every 25 metres. 1.9 kilometres of grid were flagged.

At present all claims are held by Lacana Mining Corporation under option agreement from Mowat.

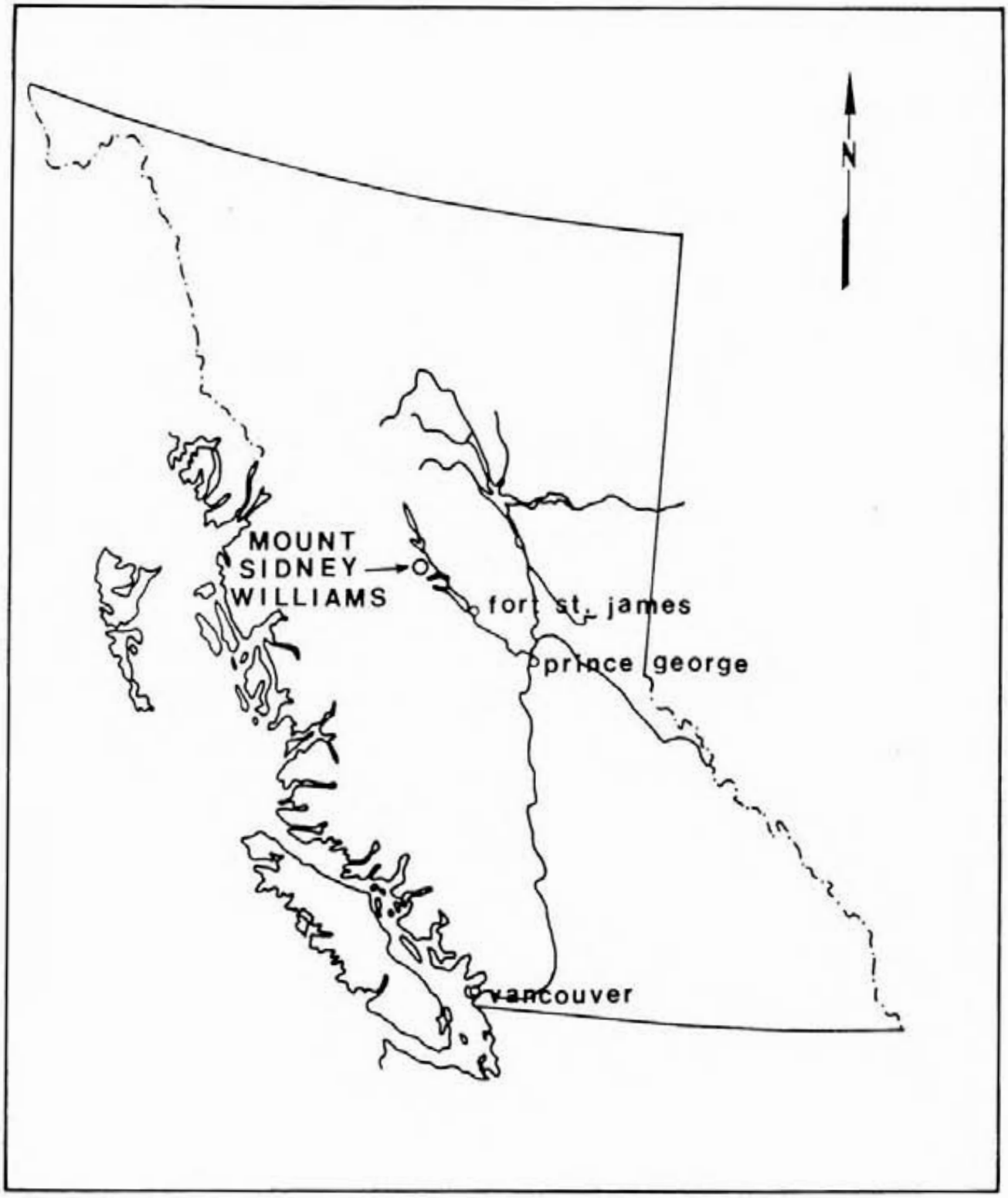


figure 1 LOCATION MAP

MOUNT SIDNEY WILLIAMS

LOCATION AND ACCESS

The Mount Sidney Williams area lies 87 km due northwest of the town of Fort St. James and is located at co-ordinates 54°54'N/125°24'W. The property is located on Map Sheet 93-K/14W.

Access to the claims is at present by helicopter which is based at Fort St. James. The B.C. Railway, extending from Fort St. James to Leo Creek lies approximately 11 km to the east and runs along the eastern side of the Middle River.

TOPOGRAPHY

Elevations at Mount Sidney Williams range from 1985 metres at the peak to approximately 820 metres near the northernmost claims. The upper portions of the claims consist of deeply incised glacial cirques with near vertical walls. The southern side of Mount Sidney Williams is steep, dropping from 1828 metres to 1219 metres over a horizontal distance of 610 metres. The northern side of Mount Sidney Williams has a more gradual slope, dropping from 1828 metres to 820 metres over a horizontal distance of 1524 metres.

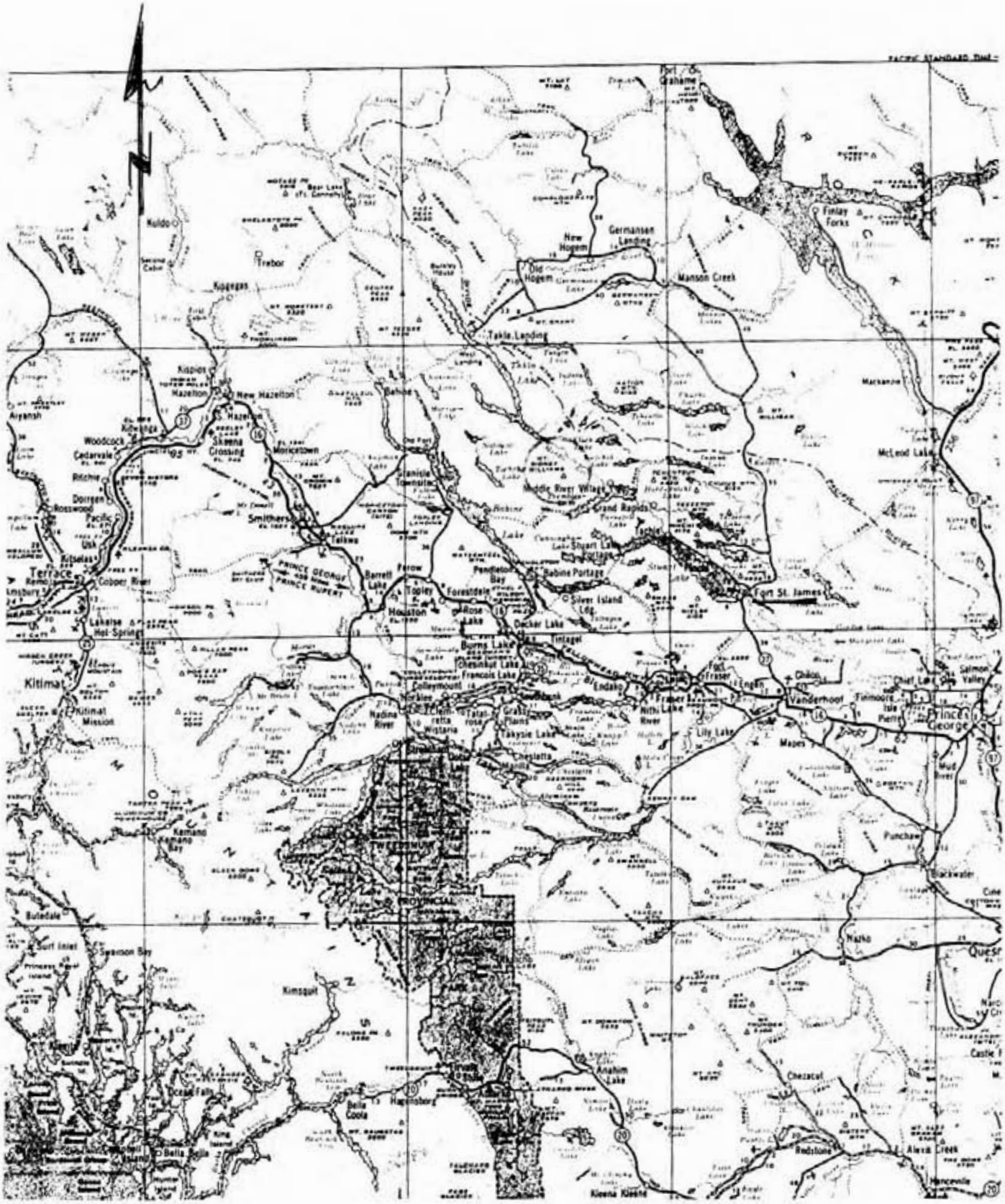


figure 2 **ACCESS MAP**

0 100 Km

CLAIM DATA

The Mount Sidney Williams property consists of two groups, the VAN GROUP, and the KLONE GROUP, plus the MID CLAIM totalling 216 units.

VAN GROUP

Claim Name	Record No.	No. of Units	Record Date	Owner
VAN 1	8127	20	Jan 15/87	LMC
VAN 2	8128	20	Jan 9/87	LMC
KLONE 3	9181	20	Nov 13/87	LMC
KLONE 4	9182	20	NOV 13/87	LMC
KLONE 8	9186	20	NOV 13/87	LMC

KLONE GROUP

Claim Name	Record No.	No. of Units	Record Date	Owner
KLONE 1	8593	9	July 28/87	U. Mowat
KLONE 2	8977	9	Sept 16/87	U. Mowat
KLONE 5	9183	20	Nov 13/87	LMC
KLONE 6	9184	20	Nov 13/87	LMC
ONE-EYE 1	9070	18	Oct 30/87	U. Mowat
KLONE 7	9185	20	Nov. 13/87	LMC
MID CLAIM	8108	20	Dec 22/86	LMC

All claims are presently held by Lacana Mining Corporation by option agreement from U. Mowat.

HISTORY

The first mention of the Mt. Sidney Williams area is made in 1937, when J.E. Armstrong of the Geological Survey of Canada did a brief reconnaissance of the Fort St. James area. In 1942, 9 chromite deposits were located in the Middle River Range by the G.S.C. At this time several asbestos showings of varying quality were also discovered in the area of Mt. Sidney Williams.

Prospectors working the region reported gold values in carbonate-quartz -mariposite and carbonate-talc rocks in altered Trembleur intrusions along shear zones (Armstrong, J.E., Fort St. James Map Area, Cassiar and Coast Districts, B.C., G.S.C. Memoir 252, p.181). One sample of carbonate-quartz-mariposite high in quartz (75%) taken on Baptiste Creek gave the following results: 0.036 oz/t Au, 0.07 oz/t Ag.

During the late 1930's a small placer operation was in operation for a brief period on Van Decar Creek. The working was located below serpentinized peridotite and nuggets of gold valued at 50¢ to $2.00 were found.

Although little documentation exists, evidence of old flagging and numerous camp sites indicates that the Mt. Sidney Williams area has received some attention in the past, for its chrome, asbestos and nickel potential. No mention is made of this area until 1962 (MMAR) when the main asbestos showing is described. Blasting caps found at this location indicate an attempt to trench the asbestos showing.

Since 1975 various groups have examined the Mt. Sidney Williams area for chrome, platinum and gold.

REGIONAL GEOLOGY

The area of Mt. Sidney Williams is underlain by a 15 km wide belt of northwesterly-trending Pennsylvanian (?) and Permian Cache Creek Group rocks consisting of ribbon chert, argillaceous quartzite, argillite, slate, greenstones, limestone with minor conglomerate and greywacke (see fig. 4). The Cache Creek Group has been intruded by Upper Jurassic or Lower Cretaceous Omineca Intrusions consisting of granodiorite, quartz diorite, diorite; minor granite, syenite, gabbro and pyroxenite. As well, Post-Middle Permian, Pre-Upper Triassic (?) Trembleur Intrusions consisting of peridotite, dunite, minor pyroxenite and gabbro with serpentinized and steatized equivalents intrude the Cache Creek Belt.

The northwesterly-trending belt of Cache Creek rocks is bordered on the east by the Pinchi Fault and Upper Triassic and later Takla Group andesites, basaltic flows, tuffs, breccias and agglomerate with interbedded conglomerate, shale, greywacke and limestone. On the west, the belt is bounded by the Takla Fault, an east-dipping zone, up to 5 km wide, containing a melange of serpentine and greenstone. The melange is adjacent to Triassic metamorphosed pyroclastic rock, basalt, rhyolite, greywacke and argillite of the Sitlika Assemblage.

Between the Pinchi Fault and the Takla Fault, the predominant units of the Cache Creek Group of chert, phyllite, carbonaceous phyllite and argillite with minor greywacke and limestone, are highly deformed. Three deformational periods have been recognized in the Cache Creek Group which has been metamorphosed to lower greenschist facies with local glaucophane. The oldest structures are a prominent foliation that parallels compositional layering and trends east-west, marking the axial planes of isoclinal folds. A later structure consists of chevron folds which trend north-south with axial planes dipping moderately westwards. The youngest structures are warps and kinks probably related to late faulting.

PROPERTY GEOLOGY

Although no mapping in detail has been done to date, prospecting and sampling have provided good information on the rock types and structures on the Mount Sidney Williams property.

The predominant rock type seen to date and one that appears to form a central core on the property is a harzburgite composed of 50-60% olivine and 40-50% orthopyroxene. The harzburgite weathers to an orange-brown with the resistant orthopyroxene, which reaches up to 1 cm wide, forming a very rough texture on surface. Within the generally massive harzburgite are areas of distinct layering formed by beds of dunite and harzburgite. Rarely, the harzburgite is cut by randomly oriented orthopyroxene veinlets up to 10 cm wide.

Where the orange-brown weathering harzburgite has been cut by major structural elements, the harzburgite has been altered by intense serpentinization. Although 'the core' harzburgite and the serpenitinized harzburgite are dark green black on fresh surface with orthopyroxene crystals in both

rock types visible, the weathered surface of the serpentinized harzburgite is distinctly not rough with orthopyroxene crystals and has a 'jade-like' appearance. With increasing alteration, the orthopyroxene becomes less visible or disappears and the harzburgite forms a poor quality dark green jade with apple-green lizardite on surface. The formation of the 'jade' from the 'core' harzburgite has been noted to occur only on some of the structurally controlled peripheral rocks of the 'core' harzburgite.

Within the 'core' harzburgite is what appears to be a linear, approximately east-west trending series of 'pods' of light green-weathering olivine-enriched harzburgite. Although, these pods are considered to be dunite and they are dominantly monomineralic (olivine), the harzburgite texture can be seen occasionally. It is believed that these zones represent areas of later olivine-enrichment and replacement(?) of the core harzburgite. On fresh surface these pods are dark green black, fine grained and dense. The pods weather recessively and very frequently are found as 2 cm diameter nodules of 'dunite'. The actual pods are somewhat ovoid in shape, up to 100 metres wide and have been traced for a distance of 3000 metres.

Dykes of fine grained norite were seen to cut the core harzburgite on the ridges near the peak of Mt. Sidney Williams. The rock is dark grey with 2-3 mm long feldspar laths. Because of heavy talus cover, only one dyke indicated a definite orientation of east-west. It is suspected that the other dykes also trend east-west.

In the vicinity of Tear Drop Lake, a small, vesicular plug of basalt(?) was located. The plug cuts through the ultramafic and has a somewhat glassy appearance. Most of the outcrop is covered by talus but, the plug is at least 2 - 3 metres wide and has weathered(?) into an egg-like shape.

Approximately 1500 metres due north of Tear Drop Lake, a second outcrop of massive black fine grained basalt was located. Although the outcrop exposure is very limited, this unit appears to be a Tertiary(?) flow.

A small, possible, outcrop, of a white, sheared, sericitized granitic was found near the 4 North corner post of the VAN 2 claim.

On the west side of the property, Cache Creek argillaceous schists and andesitic volcanics have been found. The argillaceous schists are light grey, schistose to rarely black, phyllitic. The only sulphide noted in the schists is pyrite which may constitute up to 1% of the schist. In close

proximity to the harzburgite, the schist occasionally displays 1 cm wide angular shapes of rusted Fe-carbonate, and is also occasionally extremely sericitic.

The andesitic volcanics are medium green with some vesicles(?), generally textureless to massive, save on the northern claim boundary of the ONE-EYE-1, where what appear to be pillows have been located. In this location the volcanic has a light green matrix with distinct feldspar phenocrysts. Within the volcanic are rounded patches of possible pillows with abundant feldspar phenocrysts of coarser grain than that of the matrix.

Little is known of the geology of the MID claim due to extensive overburden cover and the limited time spent on the claim. Rock samples collected while silt sampling Baptiste Creek indicate that the claims are underlain by listwanite containing 5% pyrite locally and several massive, crystalline quartz veins. Exploration work carried out on the BAP claim immediately adjacent to the MID claim indicates that Bapiste Creek is a major shear zone cutting a large intrusion of peridotite and dunite which has been widely silicified, intruded by quartz veins and subjected to quartz-carbonate alteration (Assessment Report 11879). The author did not visit the MID claim.

MINERALIZATION

The Mt. Sidney Williams ultramafic massif is an extremely sulphide-poor system. Only trace amounts of a very fine grained yellowish sulphide were noted in a few locations within the ultramafic rocks. Minor amounts of disseminated pyrite and arsenopyrite were noted in the listwanite zones.

Chromite has been found throughout the 'core' harzburgite. The chromite, which has been altered to a high Mg-Al spinel, has been found as small massive chromite pods, fine grained clots in the pale green olivine-enriched harzburgite and as veinlets which occasionally form a stockwork within the harzburgite.

Asbestos, both long-fibre and tremolite, has been found scattered throughout the property, closely spatially related to the pale green olivine-enriched harzburgite.

A small outcrop containing coarse grained stibnite in a vertically dipping listwanite zone was located near the west boundary of the KLONE 1 claim. Lack of outcrop prevented any determination of the size of the mineralized zone.

No mineralization other than pyrite was noted on the MID claim. The pyrite content which ranged up to 5% was located strictly within the listwanite.

ALTERATION

There are several types of alteration on the Mt. Sidney Williams property and all are located in structurally controlled zones and on the periphery of the 'core' harzburgite.

The most impressive, geologically and economically, is the listwanite, a vivid red-orange rock composed of variable amounts of carbonate, quartz, mariposite and/or sulphides (pyrite and arsenopyrite). In one location, the listwanite contained some coarse grained stibnite. Rock samples of this zone have returned gold values up to 3780 ppb Au.

The listwanite is distinctly geologically and structurally controlled. There are two main listwanite zones discovered to date. One zone located immediately south of Tear Drop Lake is of unknown width due to talus cover and erosion but appears to strike N60^{o}E over a distance of approximately 1500 metres. The other zone lies in the creek draining Tear Drop Lake. Overburden prevents any estimation of width but it may trend N20^{o}W and be as much as 500 metres long. Both zones are located on the periphery of the pale green olivine-enriched harzburgite and in close proximity to 'jade' harzburgite.

The 'jade' alteration is closely associated with gold values on the Sidney Williams property. The dark green rock is highly serpentinized and only found in fault zones.

Quartz veins form the third type of alteration. The veins are generally massive, white bull quartz which to date have returned a maximum value of only 43 ppb Au. No sulphides have been seen in the veins. The largest vein on the property is at least 3 metres wide and has been traced by outcrop and float over a distance of approximately 1000 m. This vein generally trends east-west.

The second vein of noteable size was located approximately 1000 metres WSW of Tear Drop Lake. The vein is from 0.3 to 0.6 metres wide, somewhat undulatory and trends N20^{o}E. This vein also returned no gold values although a trace of chalcopyrite and possibly chalcocite was noted in the vein. The vein is generally white, massive, bull quartz with some mariposite.

Large boulders of quartz float up to 1 metre wide have been found scattered throughout the property.

STRUCTURE

Little can be said about the structure on the property save that there appears to be a favoured east-west orientation of the olivine-enriched harzburgite, asbestos showings the largest quartz vein, and the major auriferous listwanite zone south of Tear Drop Lake. The cause of this preferred orientation is not known.

A second preferred orientation is approximately north-south (N20°E to N20°W) favoured by the smaller auriferous listwanite zone north of Tear Drop Lake and the smaller quartz vein west southwest of Tear Drop Lake. The upper reaches of Van Decar Creek a distinct major fault zone, also falls in this preferred orientation group.

Flat, southerly dipping thrust-like structures have been seen near the peak of Mount Sidney Williams. Black, chromite-rich harzburgite appears to have been thrust over 'core' harzburgite. In addition, slices of harzburgite have been pushed up against the south flank of Mount Sidney Williams.

The Mount Sidney Williams ultramafic massif appears to have undergone horizontal as well as vertical displacement. The major auriferous listwanite zone south of Tear Drop Lake occupies an east-west trending shear which may mark a zone of vertical displacement as suggested by vertical cliff faces in the vicinity. Horizontal displacement of the 'core' harzburgite is indicated immediately to the east of the major listwanite zone which terminates abruptly against the harzburgite.

WORK PERFORMED

The following work was carried out between July 17, 1987 and October 28, 1987.

PHASE I - July 17-24, 1987

Samples:

227 rock 9 heavy mineral 4 soils 89 silts	}	30 element ICP and Au, Pt, Pd, Rh by fire assay and AA

Man Days:

4 men for 8 days

Prospecting:

1150 hectares on VAN 1, VAN 2, KLONE 1 and MID claims.

PHASE II - Sept. 2-10, 1987

Samples:

148 soils - Au and As
5 silts - Au and As
2 rocks - Pt
30 rocks - Au and As (+ 10 for Pb and Sb)

Man Days:

2 men for 9 days

Prospecting:

250 hectares on KLONE 1

Grid:

3.1 km

Soil samples were taken from residual soil near surface

PHASE III - Oct 22-28, 1987

Samples:

43 rocks - Au and As
28 Soils - Au and As

Man Days:

4 men for 5 days

Grid:

1.9 km

Work on the Mt. Sidney Williams area and the MID claim has been dominantly sampling with minor grid establishment in areas of anomalous gold values. The work was carried out in 3 phases commencing in July 1987.

PHASE I

Work during this phase was primarily of a reconnaissance nature and consisted of rock, soil, silt and heavy mineral sampling on the VAN 1, VAN 2, KLONE 1 and MID claim. A total of 227 rocks, 89 silt, 4 soil and 9 heavy mineral samples were collected by 4 men from July 17-24, 1987. All samples were analyzed for 30 elements by I.C.P. as well as Au, Pt, Pd, Rh by fire assay and atomic absorption. Approximately 1150 hectares were prospected during this phase.

PHASE II

Work during Phase II was concentrated in areas of anomalous gold values indicated during Phase I, and consisted of minor close-spaced grid establishment and rock, soil and silt sampling on the KLONE 1 and 2 claims. A total of 3.1 km of grid was placed on various parts of the KLONE 1 and 2 claims to cover anomalous gold values and detect any trends. Because of abundant talus

cover, and the narrow widths of the listwanite zones, spacing on grid lines varied from 15 metres to a maximum of 50 metres. Soil stations were also variably spaced from 15 to 50 metres.

From September 2 - 10, 1987, 32 rocks and 148 soil and 5 silt samples were collected by 2 men. All samples were analyzed for Au and As. Ten rocks were also analyzed for Pb and Sb as well as for Au and As. In addition 2 rock samples were analyzed for Pt to confirm the Phase I Pt/Pd value obtained from an orthopyroxenite veinlet.

PHASE III

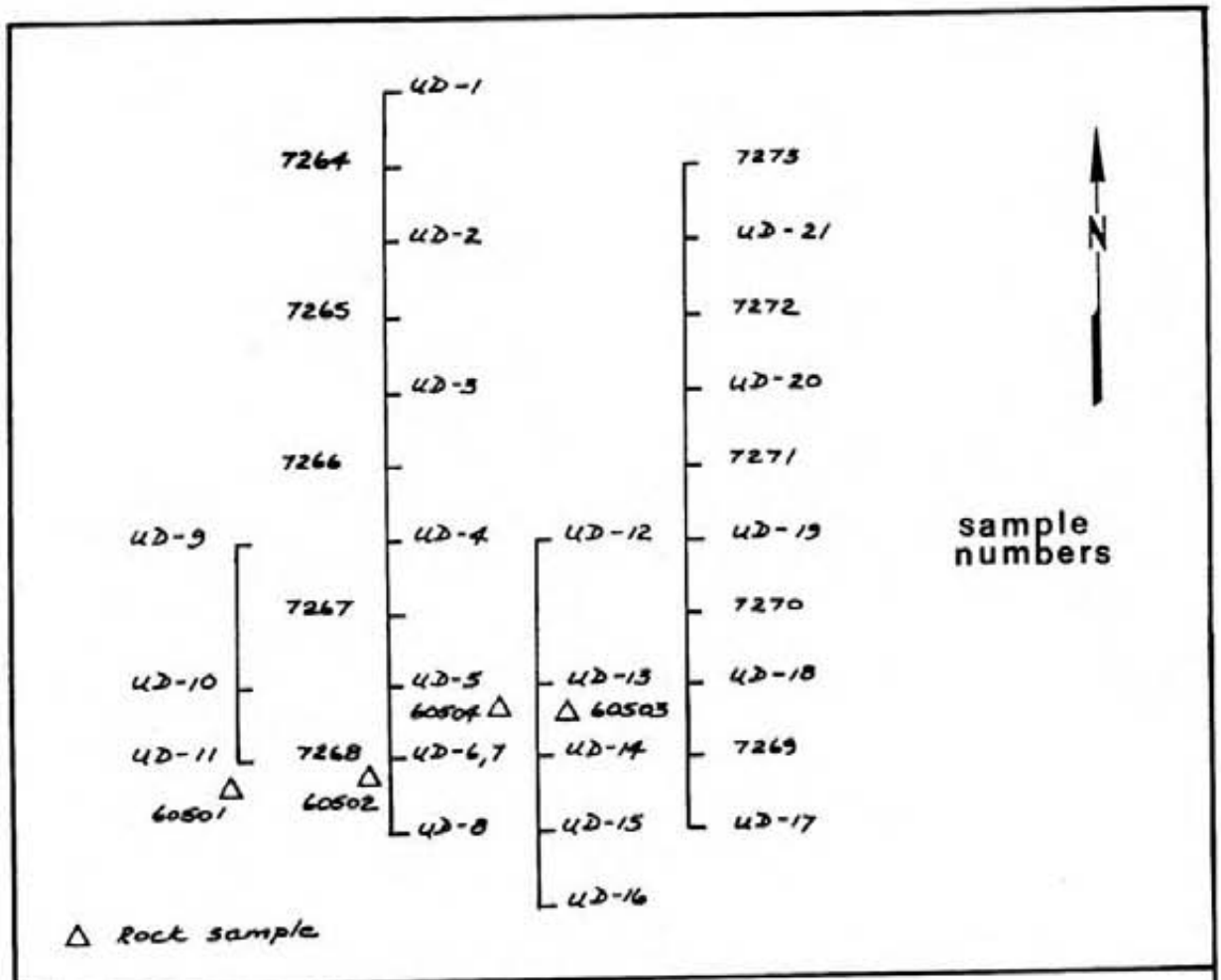
With the establishment of distinct zones of auriferous listwanite from Phase II work, plus the discovery of stibnite in one of the auriferous listwanite zones, Phase III was commenced in October. The main purposes of the program were to establish a grid in order to tie in the main anomalous areas on the KLONE 1 claim and to bulk sample some of the more significant auriferous listwanite zones and the stibnite showing.

Forty-three rock samples and 28 soil samples were collected from October 22 - 28, 1987 as shown on figures 7c, d, e, f. All samples were analyzed for As and Au. In addition, 1.9 km of grid was established. Grid lines trending east-west were flagged 100 metres apart with stations every 25 metres.

RESULTS

Results of the Phase I sampling and prospecting indicated the following:

1. the platinum potential of the Mt. Sidney Williams property and the MID claim is very poor. Only one sample (an orthopyroxenite veinlet) carried any Pt/Pd values (55/73ppb). It would appear that the chromite, a possible source for Pt/Pd values, has been altered from a chrome spinel to a high Mg-Al spinel and therefore has little chance of being a Pt/Pd carrier. Also, it is readily apparent from prospecting, that the Mt. Sidney Williams ultramafic massif is a very sulphide-poor system thereby removing the possibility of sulphide minerals scavenging Pt/Pd.
2. gold values up to 3780 ppb were found in a rusty-weathering listwanite that appears to be structurally controlled. Not all listwanite is auriferous, particularly on the MID claim. The listwanite that is spatially related to 'jade' development plus having a high As and/or Sb content was


UD-1
7264
UD-2
7265
UD-3
7266
UD-4
7267
UD-5
60504
7268
UD-6,7
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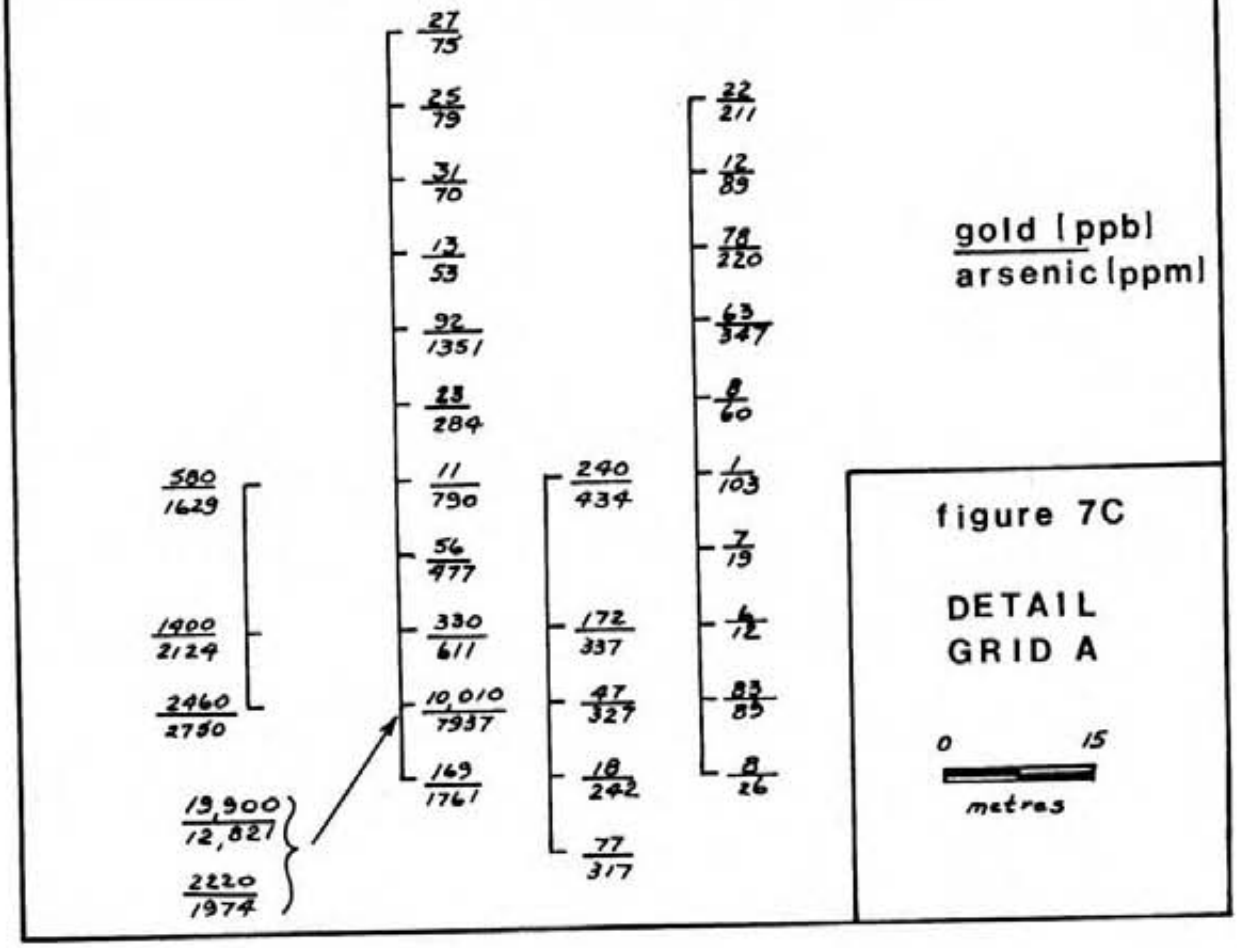
UD-8
UD-9
UD-10
UD-11
60501
UD-12
UD-13
60503
UD-14
UD-15
UD-16
7273
UD-21
7272
UD-20
7271
UD-19
7270
UD-18
7269
UD-17
N
sample numbers
△ Rock sample


27/75
25/79
31/70
13/53
92/1351
23/284
11/790
56/477
330/611
10,010/7937
169/1761
580/1629
1400/2124
2460/2750
19,900/12,821
2220/1974
240/434
172/337
47/327
18/242
77/317
22/211
12/89
78/220
63/347
8/60
1/103
7/19
4/12
83/85
8/26
gold (ppb)
arsenic (ppm)
figure 7C
DETAIL
GRID A
0
15
metres

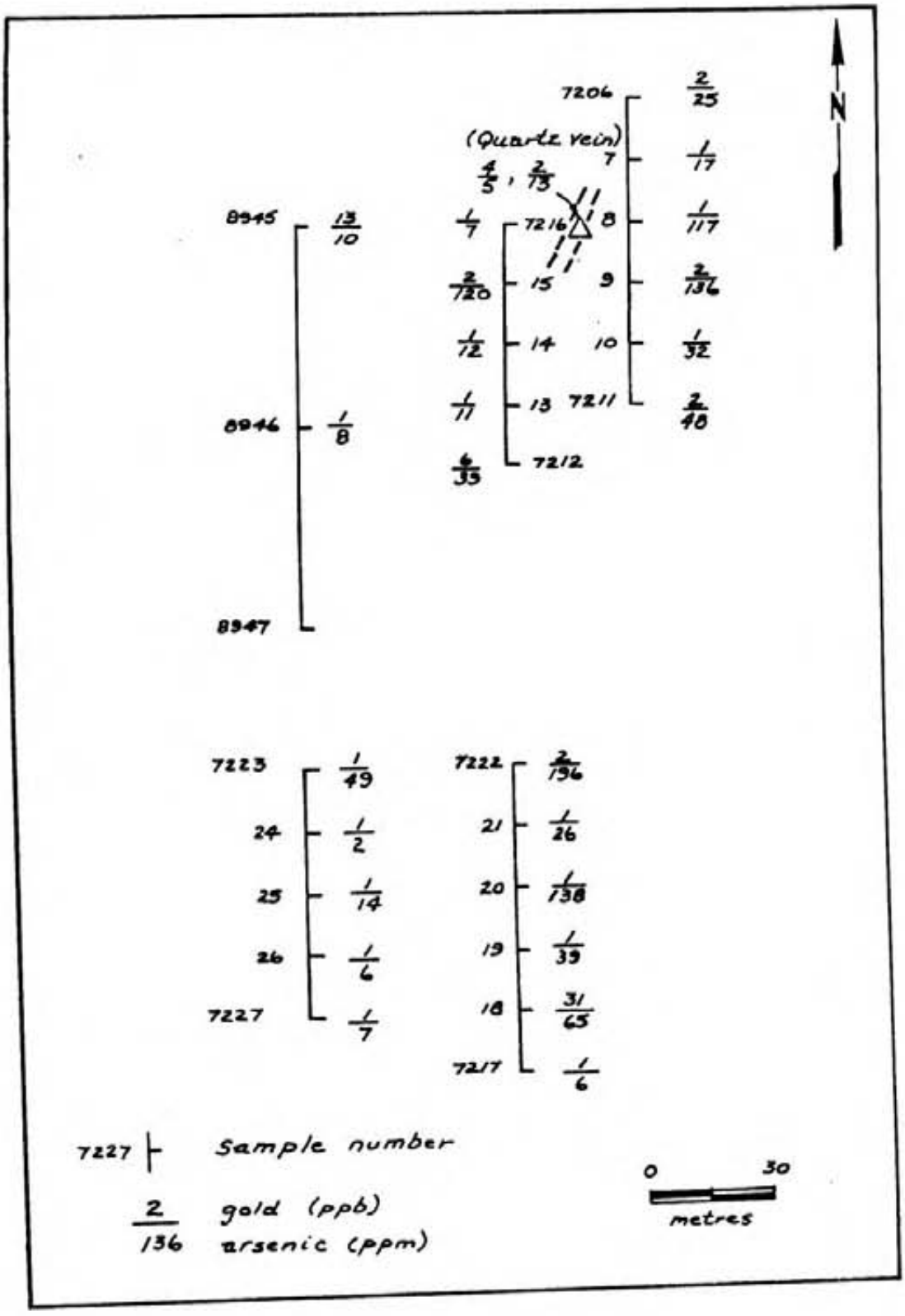


figure 7D DETAIL GRID B

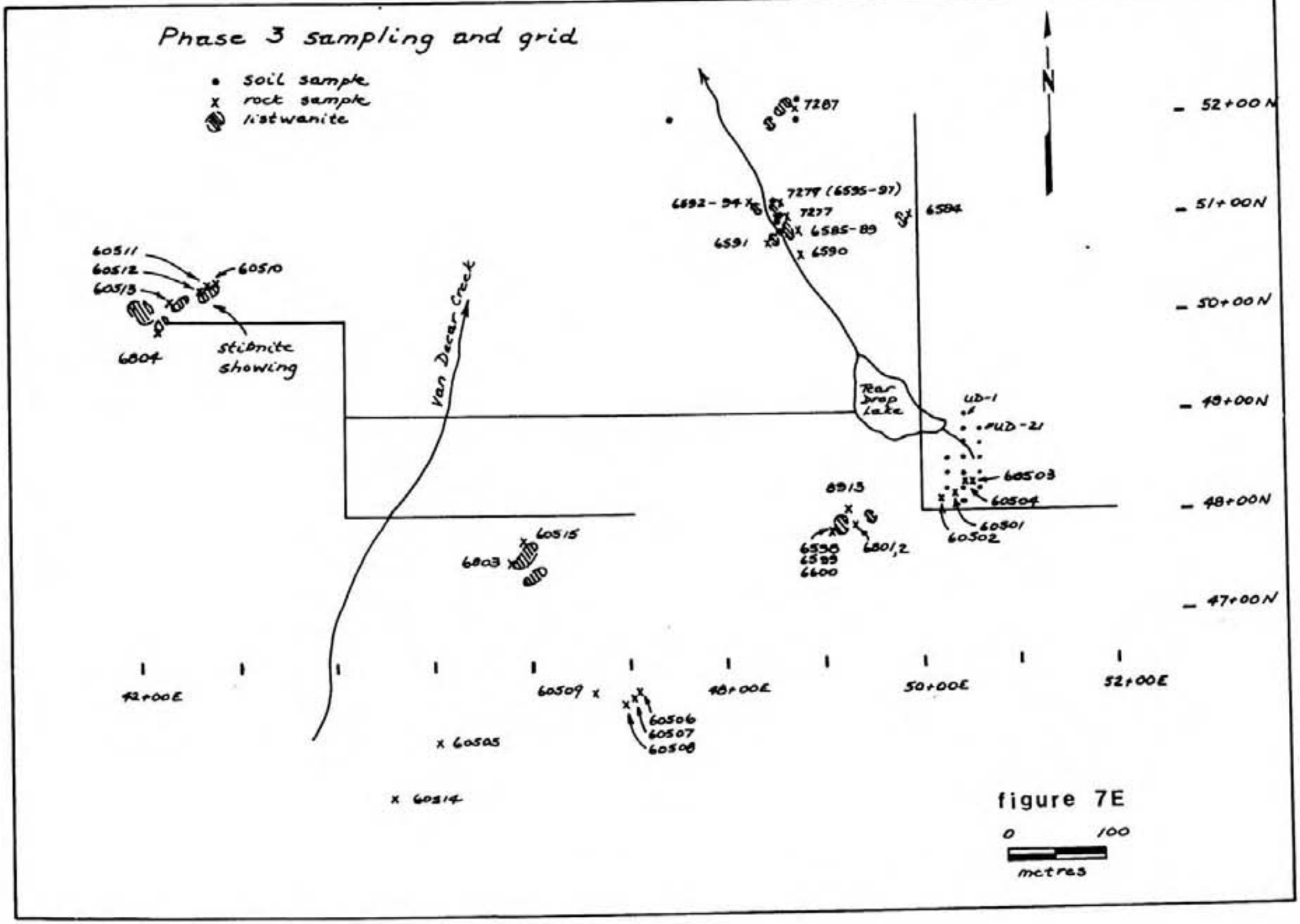
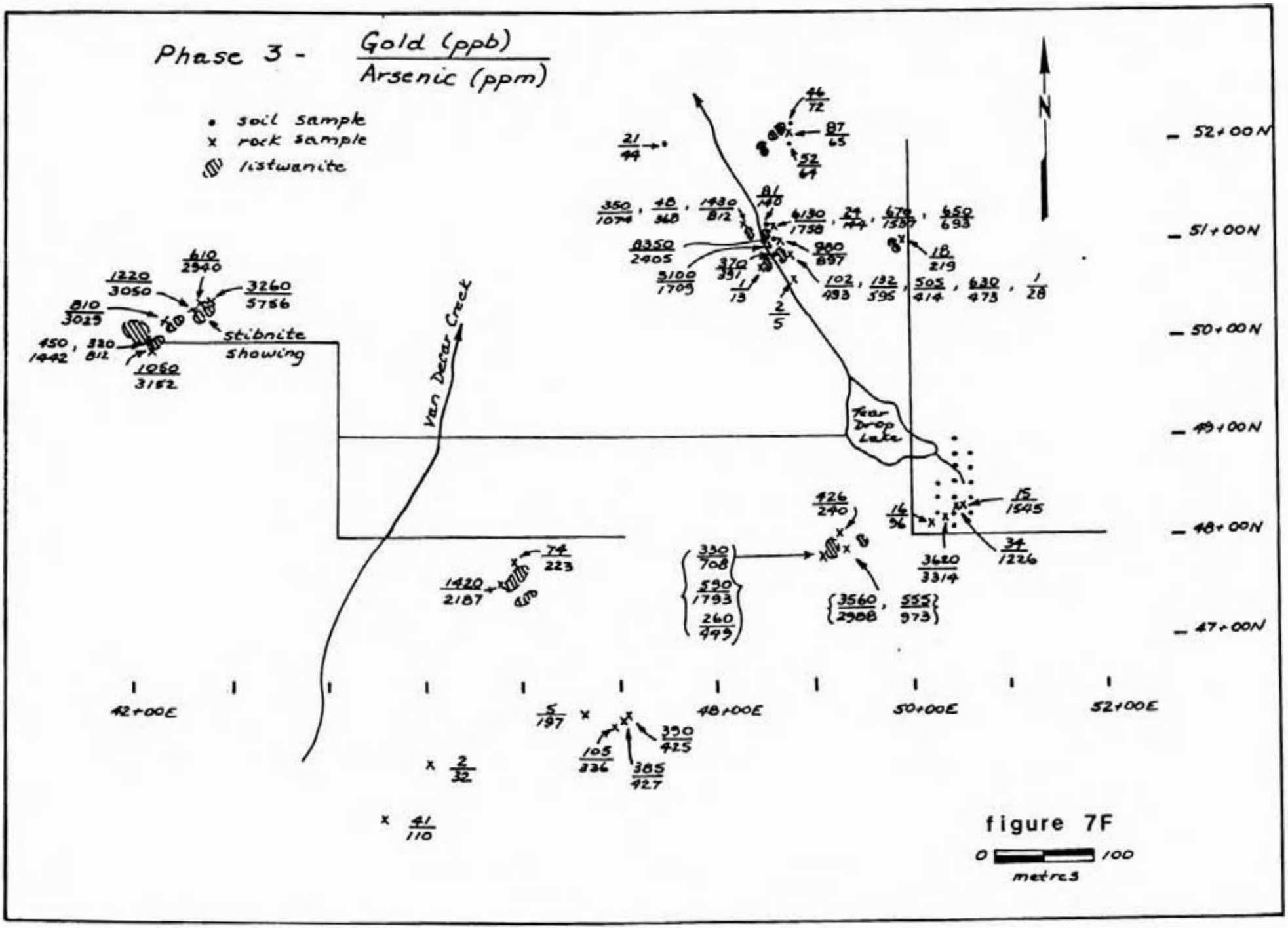

Phase 3 sampling and grid
soil sample
rock sample
listwanite
N
52+00N
51+00N
50+00N
49+00N
48+00N
47+00N
7287
7279 (6595-97)
7277
6585-89
6590
6591
6592-94
6584
60511
60512
60513
60510
6604
stibnite showing
Van Decar Creek
Rar Drop Lake
UD-1
UD-2
60503
60504
60501
60502
6603
60515
6550
6589
6600
6601,2
60509
60506
60507
60508
60505
60514
42+00E
46+00E
50+00E
52+00E
0
100
metres

figure 7E


Phase 3 - Gold (ppb) / Arsenic (ppm)
• soil sample
x rock sample
listwanite
N
52+00N
51+00N
50+00N
49+00N
48+00N
47+00N
42+00E
48+00E
50+00E
52+00E
Van Dezar Creek
Tear Drop Lake
stibnite showing
21/44
44/72
87/65
52/69
81/140
350/1074
48/368
1480/812
6130/1758
24/44
679/1537
650/693
8350/2405
980/897
18/219
5100/1709
370/331
1/13
2/5
102/493
132/595
505/414
630/473
1/28
610/2940
1220/3050
3260/5756
810/3025
450/1442
320/812
1050/3152
74/223
1420/2187
330/708
590/1793
260/499
426/240
16/96
15/1545
3620/3314
34/1226
3560/2908
555/973
5/197
390/425
105/336
385/427
2/32
41/110
figure 7F
0 100
metres

found to be definitely auriferous. Phase I sampling indicated the best auriferous listwanite zone to be in the Tear Drop Lake area, although silt sampling returned sporadic to isolated gold values in several other parts of the property.

Phase II consisted of more detailed sampling of areas indicated to have anomalous gold values and establishing a close-spaced grid over these areas. The majority of work was performed on the KLONE 1 claim but some grid sampling was done on the KLONE 2 claim.

Prospecting and sampling indicated the following:

1. quartz veins, varying from 20 cm to 3 metres wide located during Phase I work are not auriferous. The maximum value was 43 ppb Au in a 3 metre wide vein.
2. only the listwanite zones in close proximity to 'jade' and with a high As and/or Sb content are auriferous.
3. high arsenic content of soils can be used to indicate the presence of auriferous listwanite zones that are overburden covered.

Phase III work identified the in situ source of the high (up to 19,900 ppb Au) soil anomalies.

RECOMMENDATIONS

1. The first priority should be to establish a grid over more of the property in order to facilitate mapping of the exposed rock in upper portions of Mt. Sidney Williams and for wide spaced sampling of the lower overburden-covered portions of the property.
2. Mapping of the exposed portions of Mt. Sidney Williams, with a concentration on locating olivine-enriched harzburgite, 'jade' harzburgite and listwanite, should be done. It is suspected that the Mt. Sidney Williams massif has been dislocated by a northerly series of faults and mapping may indicate whether the auriferous listwanite zones are also dislocated.
3. After grid preparation and mapping, trenching and sampling of the main auriferous listwanite zones is recommended.

4. With the addition of the ONE-EYE-1 and the KLONE 3-8 claims, additional silt sampling should also be done.

REFERENCES

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APPENDIX I

Sample Descriptions - PHASE I -

		Au	Pt	Other
6001	Pitted periodotite with some chromite and trace sulphides	-	5	25 As 3 W
6002	Black peridotite, very magnetic	-	4	26 As
6003	" " "	-	6	-
6004	" " "	-	3	8 Sb
6005	Orange listwanite, with silica and some mariposite	-	-	63 As
6006	Highly silicified rusty zone in norite(?) with quartz veining, vuggy quartz, trace mariposite	2	2	36 As
6007	Pinkish brown zone approximately 5 metres wide, striking $\approx 210^{\circ}$; zone soft, friable, clayey with slickensides	55	4	61 As 6 Sb
6008	Rusty light brown zone approx 10 m wide striking $\approx 210^{\circ}$ outcrops of highly silicified rock with dense quartz stockwork; quartz veinlets $<$ 5 mm thick, trace mariposite	3	3	24 As
6009	Chromite rich norite, black, magnetic greenish on weathered surfaces	-	6	-
6010	Purple stained norite float	-	-	.3 Ag 5 Sb
6011	Float-bull quartz, white, massive	-	-	-
6012	Serpentinized harzburgite with antigorite veinlets	2	7	-
6013	Black shaley rock	-	-	253 Cu .4 Ag 10 Pd
6014	Heavy mineral sample	136	3	60 Cu 108 Zn 32 As
6015	Silt	3	3	104 Zn 36 As
6016	Silt	11	3	27 As 8 Sb

Sample	Descriptions	Au	Pt	Other
6017	Silt	16	3	47 As 6 Sb 6 Bi
6018	Silt	7	3	56 As 6 Sb 5 Bi
6019	Heavy mineral sample	15	5	113 Zn 34 As 6 Bi
6020	Silt	8	3	54 As 7 Bi
6021	Heavy mineral sample	14	3	51 As 6 Sb
6022	" " "	35	-	-
6023	Silt	2	2	-
6024	Silt	2	2	-
6025	Silt	3	2	-
6026	Silt	39	2	-
6027	Chip sample of quartz veinlets in norite; weak listwanite alteration	3	2	26 As 8 Sb
6028	Silt	3	2	-
6029	Silt	4	2	-
6030	Silt	2	2	-
6031	Silt	-	2	-
6032	Silt	3	2	-
6033	Highly altered rock (listwanite) with approx 1-2% mariposite with minor quartz veining	-	2	49 As
6034	Highly altered rock (listwanite); quartz veining common; 1-5% pyrite in rock matrix; 1-5% mariposite	5	6	.3 Ag 55 As
6035	Silt	3	2	-
6036	Heavy mineral sample	11	3	-

Sample Descriptions

		Au	Pt	Other
9701	Calcite veinlets in f.g. dark grey norite(?) non magnetic, coarser grained norite fragments in the f.g. norite; areas of concentrated white feldspar ("pools")	-	2	-
9702	Serpentinized dunite and peridotite with altered chromite; occasionally very magnetic	-	8	-
9703	Dunite, very black, weathers greenish; very magnetic	-	7	-
9704	Norite with some calcite veining, dark grey f.g. sheared to greyish green volcanic-looking rock	-	2	113 Cu .2 Ag 4 W 6 Sb
9705	Dunite with all stages of alteration from black with chromite (?) to pale greenish grey from silicification(?)	2	6	-
9706	Very rusty zone of chalcedony to crystalline quartz, stockworked; listwanite; trace mariposite; zone enclosed by dunite	-	3	-
9707	Dunite with remnant clots of chromite; magnetic and also areas of medium grey silicified(?) dunite	-	6	-
9708	Small pod of very rusty listwanite; same as 9706; zone ≈15 metres long	-	2	-
9709	Harzburgite with very altered c.g. pyroxene crystals; magnetic	2	6	-
9710	Porphyritic harzburgite (v.c.g.) with up to 40% crystals of pyroxene visible on weathered surface, black to dark grey on fresh surface, magnetic	2	6	-
9711	Layered dunite zone with some very intense silicification(?)	-	5	-
9712	Chromite rich and layered harzburgite with trace asbestos veinlets	2	7	-
9713	Gossan in harzburgite cut by veinlets of pyroxenite(?); magnetic, antigorite smears on fractures	2	2	-
9714	Veinlet, 7 cm wide of pyroxenite cutting across layers of harzburgite	7	55	73 Pd

Sample Descriptions

		Au	Pt	Other
9715	Wallrock of veinlet in 9714	2	7	-
9716	Light grey, very silicified(?) Cache Creek limestone(?); extremely magnetic	-	-	-
9717	Serpentinized very green harzburgite in contact with sample 9716	2	8	-
9718	Layered serpentinized, pale green highly magnetic harzburgite	2	9	-
9719	Heavily serpentinized black rock with massive slicks of antigorite	2	6	-
9720	Very rusty weathered boxwork texture, highly silicified, listwanite	390	4	200 As 11 Sb 6 Bi
9721	Quartz vein along N-S line of Klone 1	3	-	-
9723	Heavy mineral sample; large amount of asbestos matte in sample	-	-	25 As 8 Sb
9724	Heavy mineral sample; much black sand and greenish olivine(?)	-	7	31 As 5 Sb 5 Bi
9725	Silt; area underlain by harzburgite	3	8	65 As
9726	Silt; taken below chromite pod in shear zone	4	8	66 As 6 Bi
9727	Heavy mineral sample taken below heavily manganese stained harzburgite and shear zones	4	6	35 As 8 Sb 6 Bi
9728	Silt	5	5	102 As 9 Bi
9729	Silt	3	6	77 As 7 Bi
9730	Heavily chromite layered olivine pyroxenite	3	6	-
9731	Silt	6	5	98 As 7 Bi
9732	Carbonate altered black rock; very magnetic	2	2	-
9733	Small massive chromite pod with possible nickel stain	3	6	-

Sample Descriptions

		Au	Pt	Other
9734	Soil in area of very heavily chromite layered harzburgite	2	7	5Bi
9735	Silt	3	6	76 As 9 Bi
9736	Massive chromite float	-	6	-
9737	Chromite seams forming stock work on harzburgite	2	7	-
9738	Silt	8	6	84 As 7 Bi
9739	Bright green serpentinized dunite with up to 40% chromite	-	4	7 Bi
9740	Silt	12	6	136 As 7 Bi
9741	Massive chromite float	6	6	-
9742	Heavy mineral sample; some asbestos in sample; most black sand seen in sample yet	2	7	-
9743	Heavy mineral sample; fair black sand; much asbestos in sample	-	-	-
9744	Black Cache Creek argillite? cut by white calcite veinlets and asbestos	-	-	6 W 995 Sr 9 Bi
9745	Silt	2	5	29 As 7 Bi
9746	Silt	-	5	7 Bi 5 Sb
9747	Silt	3	4	5 Sb 9 Bi
9748	Serpentinized dark green and highly shattered harzburgite with much irregular chromite banding	-	7	-
9749	Float? massive antigorite with chromite in harzburgite; highly silicified(?)	2	6	-
9750	Chromite sample near fault zone in dunite(?)	-	8	-

Sample Descriptions

		Au	Pt	Other
9751	Chromite breccia with calcite veinlets	-	5	-
9752	Mariposite-silica gossan (float)	-	3	146 As 51 Sb
9753	Heavily silicified mariposite alteration cut by quartz veining (float)	32	3	361 As 25 Sb 5 Bi
9754	Sheared serpentinized harzburgite; shear zone trends E-W	2	2	8 Bi
9755	White antigorite streaked, sheared harzburgite with trace sulphides; looks like pyrrhotite, in fractures mainly	-	-	-
9756	Silt	7	4	104 Zn 8 Bi
9757	Silt	396	5	537 As 25 Sb 6 Bi
9758	Float - from gossan (listwanite) up on cliff face; silicified with mariposite	733	4	.4 Ag 614 As 22 Sb 6 Bi 3 W
9759	Dark grey chromite-rich serpentinized harzburgite	4	7	51 As 6 Bi
9760	Black dunite with chromite; asbestos noted in float here	4	6	-
9761	Float from up cliff-carbonate, mariposite, quartz (listwanite)	16	5	104 As
9762	Very yellow dunite(?) occasionally with asbestos and sheared chromite stringers	-	6	-
9763	Chromite seam 6 metres long, fracture controlled, 15 mm thick; trends E-W	2	5	-
9764	Yellow stained peridotite with numerous asbestos veinlets	2	6	-
9765	Asbestos (long fibre)	-	-	-
9766	Soil-taken below 9765; area of harzburgite	3	5	-

Sample Descriptions

		Au	Pt	Other
9767	Extremely sheared dunite with chromite	-	6	-
9768	Sheared serpentinized pale green dunite w/chromite, occasionally massive, mainly fracture controlled	-	8	-
9769a	Silt	4	3	128 Zn .4 Ag 25 As
9769b.	Float(?) granitic, sheared	-	3	-
9770	Jade(?) very serpentinized harzburgite, has jade white rind; rock occasionally black from chromite	-	6	3 W
9771	Silt; rusty carbonate-quartz float nearby	6	3	19 As 95 Zn
9772	White quartz boulder 0.3 metres across	-	-	-
9773	Massive boulder of white quartz with 50% rusty carbonate and some mariposite; trace sulphide?	-	-	-
9774	Soil, area underlain by much quartz float	4	4	121 Zn 70 As 114 Ba
9775	Rusty listwanite entirely composed of carbonate with minor mariposite	-	4	88 As
9776	Silt	5	4	118 As 9 Sb 7 Bi
9777	Dark grey green harzburgite; shear striking 140°; trace sulphide	1	6	28 As
9778	Rusty listwanite with much mariposite, some weathered sulphides and quartz veining	1	3	66 As 6 Bi
9779	Silt	208	7	254 As 9 Bi
9780	Listwanite with fair mariposite	5	3	50 As
9781	Silt	5	5	66 As 9 Bi 8 Sb

Sample Descriptions

		Au	Pt	Other
9782	Silt	218	5	180 As 9 Sb 8 Bi
9783	Soil on knoll of olivine harzburgite	15	-	147 Zn 53 As 8 Bi
9784	"Ball" like nodules from green olivine harzburgite	-	-	-
9785	Very rusty listwanite (quartz-carbonate-mariposite)	7	5	21 As 12 Sb 6 Bi
9786	Rusty quartz-carbonate-mariposite (listwanite); much quartz veinlets and boxwork weathering	38	4	746 As 35 Sb
9787	Listwanite (carbonate-quartz-mariposite) with rusty veinlets of quartz with goethite-filled boxwork; trace sulphide	23	3	160 As 24 Sb 7 Bi
9788	Quartz veinlets (av 1 cm wide) in very rusty listwanite (carbonate-quartz-mariposite)	66	3	5 W 163 As 17 Sb 7 Bi
9789	Chromite breccia in serpentinized dunite	4	8	-
9790	Shattered dark grey f.g. norite dyke with potassic(?) K-spar alteration selvage; trends E-W	3	-	73 Cu
9791	E-W trending highly gossanous shear zone with considerable quartz veinlets and stringers with some unaltered peridotite(?)	2	-	87 As 13 Sb
9792	Black (chromite-rich?) harzburgite; outcrop sheared in N-S direction, occasionally extremely sheared	2	7	8 Sb 5 Bi
9793	Altered serpentinized harzburgite with minor serpentine veinlets; chromite weathered to brown	2	6	17 As 5 Sb 5 Bi
9794	Light grey bleached harzburgite with some round black chromite(?); minor asbestos	2	6	7 Sb 5 Bi
9795	Fracture-controlled chromite seams in dunite (pale green grey)	2	7	-

Sample Descriptions

		Au	Pt	Other
9796	Chromite-rich breccia in harzburgite with harzburgite fragments	2	6	31 As
9797	Yellow altered, black v.f.g. peridotite(?)	-	9	10 Sb
9798	Pale green weathering dunite(?) with fracture-controlled chromite	2	6	-
9799	Light grey felsic dyke(?), rusty	-	-	.3 Ag
50	Black serpentinized harzburgite	3	4	-
RF1	Light grey silicified ultramafic(?)	2	-	-
RF2	Quartz vein in talus	2	-	-
RF3	Quartz vein	43	-	-
RF4	Quartz vein, 3 metres wide	3	-	-
9801	F.g. norite with feldspar; quartz-carbonate veins; strike E-W, dip steep to south	2	-	.3 Ag 3 W
9802	Small, th ough discontinuous zone with white f.g. clay? - feldspars? as veins, masses in brecciated norite	-	-	96 Cu .3 Ag
9803	As above; f.g. white talc veins in very rusty incompetent norite	-	-	24 As 5 Sb
9804	Serpentinized dunite(?) peridotite; grab sample of 0.5 m layer, E-W strike dip moderately south of broken weathered chromite	3	6	6 Bi
9805	Adjacent to white clay breccia - narrow 2-3 m wide, strikes E-W, dips 45° S	2	4	-
9806	Chromite bed in serpentinized peridotite; strikes E-W, dips 45°S	2	6	5 Sb 6 Bi
9807	0.5 metre round pods of disseminated chromite in black serpentinized dunite; pods 10-20% chromite	2	6	-
9808	Near contact of serpentinized peridotite; contact with 9809	3	7	3 W 6 Bi
9809	Serpentinized f.g. dunite	3	7	-
9810	Grab over 3 metres of dark orange brown weathering quartz-carbonate alteration; f.g. silica or altered intrusive	10	7	218 As 18 Sb

Sample Descriptions

		Au	Pt	Other
9811	Abundant siliceous veins up to 1 cm wide 040/west dip; grabs over 0.5m; 4 or 5 big veins	2	4	244 As 26 Sb 6 Bi
9812	Red brown altered serpentinized peridotite with chromite	3	7	8 Sb 6 Bi
9813	Orange weathered peridotite(?) minor quartz-talc veins	-	7	144 As 15 Sb 7 Bi
9814	Chromite bed in peridotite, rusty 0.3 m thick	-	6	-
9815	" " " "	2	7	-
9816	Narrow or rusty f.g. antigorite(?) veins in f.g. black chromite(?)	3	7	-
9817	Orange quartz-carbonate alteration zone 7 m wide, strikes 040°; grab over 4 m	4	4	158 As 21 Sb 4 W
9818	2 metres; much carb? veins here	3	-	.4 Ag 84 As 11 Sb
9819	Grab of serpentinized peridotite	-	9	40 As 3 W
9820	Small 1 m wide quartz vein zone 100°/45°S; grab sample; pinches after 5 m	2	5	69 As 6 Sb 3 W
9821	Chromite in green dunite; grab	2	10	52 As
9822	Grab across 10 m; chromite in dunite	34	6	-
9823	Sample across 2 m of chromite; more intense	3	7	-
9824	Dark brown serpentinized chromite band 0.1m wide	2	6	48 As
9825	Adjacent to quartz-carbonate zone 4 m wide	2	4	134 As
9826	2 metre grab quartz-carbonate zone; chromite in peridotite	2	7	31 As
9827	7 metres of brown chromite in peridotite	2	7	-
9828	.1 m quartz-carbonate zone, strikes E-W	2	8	20 As

Sample Descriptions

		Au	Pt	Other
9829	Small quartz-carbonate zone, discontinuous, strikes E-W	-	5	16 As
9830	Sheared light brown dunite with chromite	2	7	-
9831	Grab of red stain in quartz-carbonate zone	9	6	233 As 10 Sb
9832	Grab of orange quartz-carbonate	15	5	91 As
9833	Grab over 3 metres in harzburgite	2	7	48 As
9834	Grabs of chromite	2	6	26 As
9835	Sheared finely banded green dunite	-	4	28 As
9836	Grab of sheared, broken quartz-carbonate zone, E-W slickensides and NW fractures	-	5	-
9837	Grabs of 0.1 m quartz vein with mariposite in E-W quartz-carbonate zone 1 m wide	-	-	-
9838	Quartz-carbonate zone, sheared with black f.g. peridotite, local mariposite and minor red pyrite stain	7	5	180 As 22 Sb
9839	E-W shear with orange quartz - carbonate alteration, white quartz, green antigorite Mg oxide, 1 m wide max - pinches out	5	3	81 As 13 Sb
9840	Sheared E-W orange quartz-carbonate zone, slickensides, abundant mariposite	-	5	-
9841	Grab of brown dunite? red brown weathering	2	6	-
9842	Minor chromite in peridotite	2	5	-
9843	Orange quartz-carbonate with abundant mariposite	27	4	105 As 6 Sb
9844	Orange-brown weathering harzburgite; local red-brown rust on fractures	3	6	-
9845	Light grey weathering harzburgite; abundant antigorite	2	7	12 As
9846	Float with chromite stringers	2	6	-

Sample	Descriptions	Au	Pt	Other
9847	Float of black, f.g. silicified(?) hard, sheared? ultramafic; abundant quartz in stockwork	-	-	-
9848	Dark red brown greasy serpentinized sheared v.f.g. chromite; magnetic; heavy; minor sulphides	3	6	-
9849	Quartz vein	-	-	-
9850	Grey-brown weathered, light grey very hard silicified ultramafic	-	-	-
SWX 1	Silt	3	4	12 As
SWX 2	"	2	4	17 As
SWX 3	"	4	4	14 As
SWX 4	"	-	5	16 As
SWX 5		2	-	-
SWX 6	"	-	3	-
SWX 7	"	2	3	16 As
SWX 8	"	-	4	-
SWX 9	"	-	4	-
SWX 10	"	2	6	12 As
SWX 11	"	-	4	13 As
SWX 12	"	2	3	15 As
SWX 13	"	2	-	115 Zn 20 As
SWX 14	"	-	4	-
SWX 15	"	-	3	16 As
SWX 16	"	-	3	15 As
SWX 17	"	-	-	14 As
SWX 18	"	4	-	108 Zn
SWX 19	"	4	-	101 Zn

Sample Descriptions

		Au	Pt	Other
SWX 20	Silt	-	-	103 Zn
SWX 21	"	2	-	132 Zn .3 Ag 54 Cu
SWR 1	Red brown weathered peridotite with chromite(?) also v.f.g. sulphides	2	6	-
SWR 2	White bull quartz vein float	-	-	28 As
SWR 3	Green black, f.g. sheared incompetent serpentinized ultramafic with abundant brown-weathered marble-sized spots; chromite?; not magnetic	2	7	-
SWR 4	Similar to above; rusty red brown stain; chromite(?) very slightly magnetic	2	7	.2 Ag 89 Zn
SWR 5	Serpentinized ultramafic, slightly magnetic with antigorite seams	2	8	8 Bi .2 Ag
SWR 6	Green black serpentinized peridotite(?) with layers 0.5-4 cm wide of brown weathering chromite(?)	-	6	.3 Ag
SWR 7	Serpentinized E-W shear	-	4	8 Bi .3 Ag
SWR 8	Light green weathering serpentinized ? with 5-10% disseminated black chromite	2	6	9 Bi
SWR 9	Intrusive (norite?) with irregular bull quartz veins; crosscuts (E-W) brown veined chromite (same as SWR-6)	-	-	3 W
SWR 10	Float - serpentinized peridotite with fine fibre veins (not asbestos)	2	6	19 As 9 Bi
SWR 11	Talus from light brown weathering v.f.g. dunite (?) pod up cliff; serpentinized	-	-	-
SWR 12	Red brown sheared serpentinized ultramafic float	-	6	6 Bi
SWR 13	Quartz vein material (grab)	-	-	55 Pb
SWR 14	" " "	-	-	66 Pb
SWR 15	Grab of amphibolite	2	5	69 As 19 Pb 7 Sb

Sample	Description	Au	Pt	Other
SWR 16	White quartz vein	-	-	-
SWR 17	Light grey brown sheared V.F.G.(?), locally calcareous with irregular white quartz veins	2	4	83 As
SWR 18	Quartz vein in calcareous orange-pink sheared?	-	3	100 As
SWR 19	Quartz vein in amphibolite	-	4	59 As
SWR 20	Grab quartz vein	-	-	30 As
SWR 21	Grab of dunite	2	5	44 As 6 Bi
SWR 22	Quartz vein	-	6	431 As 7 Sb 7 Bi
SWR 23	Calcareous dunite	-	6	-
SWR 24	SE trend, sheared calcareous quartz-carbonate dunite	-	4	35 As
SWR 25	Orange brown dunite, minor chromite, red weathering veins	2	4	-
SWR 26	Float grey, brecciated ultramafic	-	6	-
SWR 27	Quartz veins, quartz-carbonate zones interspersed with orange brown peridotite(?)	2	7	110 As 10 Sb 7 Bi
SWR 28	Orange quartz-carbonate alteration, elongate SE; quartz veins run NE; abundant mariposite, trace arsenopyrite(?)	41	4	219 As 452 Sb 5 Bi
SWR 29	Quartz-carbonate with mariposite, chromite(?) trace sulphide(?)	208	9	267 As 529 Sb 7 Bi
SWR 30	Rusty serpentinized zone	3	10	104 As 30 Sb 8 Bi
SWR 31	Quartz-carbonate alteration	29	5	102 As 7 Bi
SWR 32	Small zone of red (limonite) altered ultramafic with abundant white soft carbonate? MgOxide? and light green soft mariposite(?) veins	2	-	99 As 17 Sb 7 Bi

Sample	Description	Au	Pt	Other
SWR 33	Zone of serpentine with pink-orange quartz -carbonate veins up to 1 m wide; run NE with local white carbonate and rhodochrosite?	-	3	68 As
SWR 34	Shear 0.5 m wide runs N-S; half of shear white carbonated serpentinized/Mg Oxide with antigorite	-	3	53 As 6 Bi
SWR 35	Other part of above - rusty, dark grey sheared	2	5	15 As
SWR 36	Light grey silicified shear zone within shear zone; abundant rhodonite	2	5	27 As 6 Bi
SWR 37	Grab of brown serpentinized ultramafic	2	8	86 As 23 Sb .3 Ag
SWR 38	NW shears with pink sheared rhodochrosite	-	3	31 As
SWR 39	Orange quartz-carbonate zone with quartz veins	-	4	-
SWR 40	Green serpentinized ultramafic; 20% coarse brown weathered chromite	3	8	-
SWR 41	Light grey, buff weathering carbonated dunite with 2% disseminated black chromite	3	7	7 Sb
SWR 42	Serpentinized dunite(?) with antigorite	3	5	31 As
SWR 43	Chromite in serpentinized dunite	3	6	23 Pd 19 As
SWR 44	Light grey weathered, f.g. black volcanic with 30% 2-4 mm brown spots, very calcareous; rhodochrosite	2	5	84 As 5 Sb
SWR 45	Light grey weathered, grey f.g. sheared andesite(?) calcite on fractures	2	-	3 W 54 Cu 134 Zn .2 Ag 8 Sb
SWR 46	Grey brown calcareous unit, local white quartz veins strike E-W and dip moderately south	2	-	29 As
SWR 47	Float of 2 cm white quartz vein in brown spotted calcareous unit	3	-	274 As .2 Ag
SWR 48	Float, calcareous unit, limonitic-quartz vein	2	3	119 As 3 W

Sample Descriptions

		Au	Pt	Other
SWR 49	Black, f.g. possibly shale, locally rusty	5	-	15 As
SWR 50	Serpentinized ultramafic with chromite(?) - brown limonitic spots	3	6	4 W 16 As
SWR 51	Brown serpentinite	3	4	43 As
SWR 52	Quartz float; pieces to 0.5 m, locally rusty with limonite veins, pods of black chloritized material	2	-	-
SWR 53	Quartz vein	2	-	-
SWR 54	Sheared chloritized volcanic	3	-	8 Sb 3 W 79 Cu 110 Zn 48 As
SWR 55	Serpentinized ultramafic; chloritized sheared	2	-	-
SWR 56	Red orange sheared quartzites with white quartz vein	3	-	-
SWR 57	Grab across 4 m of 12 m wide orange quartz-carbonate zone with abundant white quartz, carbonate veins and local mariposite; minor veining and mariposite in sample	8	4	3 W 31 As
SWR 58	Central part of zone; grab of abundant quartz vein, local mariposite	3	-	22 As
SWR 59	Grab of local pods, fractures with green serpentinization	2	4	-
SWR 60	Green chloritized-serpentinized ultramafic	3	6	28 As
SWR 61	Quartz-carbonate vein, 0.3 m; abundant irregular quartz veining	12	3	7 W 66 As
SWR 62	Irregular shear, light brown, local chloritized, serpentinized ultramafic	2	3	-
SWR 63	Quartz-carbonate zone in greenish light grey weakly serpentinized utramafic; pitted on weathered surface	2	4	43 As
SWR 64	Grab of sheared quartz-carbonate altered ultramafic with quartz vein	8	3	102 As 15 Sb
SWR 65	Grab from contact of SWR 64; brown sheared serpentinized	2	3	41 As

Sample Descriptions

		Au	Pt	Other
SWR 66	Rusty serpentinized chromite in dunite	3	4	-
SWR 67	Vuggy, frothy quartz breccia in orange quartz carbonate	6	-	63 As 11 Sb
SWR 68	Red brown rusty dunite with minor chromite; minor calcite	2	3	23 As
SWR 69	Orange quartz-carbonate altered dunite zone; abundant quartz veins, local mariposite; grab of E-W striking quartz vein, dip moderate to N	21	-	.3 Ag 63 As
SWR 70	Quartz vein zone	20	3	188 As 11 Sb
SWR 71	Quartz vein zone	9	-	93 As
SWR 72	Quartz vein in quartz carbonate zone	2	-	-
SWR 73	Buff weathering slightly carbonated dunite	2	7	-
SWR 74	3 cm wide E-W white carbonate veins	2	-	-
SWR 75	Red brown weathering dunite with disseminated chromite	2	4	-
SWR 76	Grab of limonitic peridotite-dunite	-	6	.3 Ag 27 As 7 Sb
SWR 77	Grab of green serpentinized harzburgite possibly with disseminated chromite in bands	8	6	35 As 6 Sb 5 Bi
SWR 78	Grab over 4 m of pinkish weathered sheared ultramafic; carbonatized; 4 m thick	-	5	29 As 5 Sb
SWR 79	Harzburgite	2	5	78 As 12 Sb
SWR 80	Grab of quartz veins, 2-3 m wide, striking N-S and dipping steeply E	-	-	-
SWR 81	Grab of quartz veinlet, local black alteration around some veins	-	-	98 As 14 Sb .2 Ag
SWR 82	Bedded norite dyke	2	-	-

Sample	Descriptions	Au	Pt	Other
SWR 83	Small black f.g. greasy chloritized(?) zone	-	-	6 Sb 93 Cu .4 Ag 88 As
SWR 84	Quartz vein zone; grab of massive bull veins	-	-	-
SWR 85	Grab of 0.6 m white quartz vein	-	-	-
SWH 1	Silt	-	3	5 Bi
SWH 2	Silt	2	4	-
SWH 3	Silt	-	-	-
SWH 4	Silt	5	4	-
SWH 5	Silt	432	4	5 Bi
SWH 6	Silt	3	6	.3 Ag
SWH 7	Silt	3	3	-
SWH 8	Silt	-	3	-
SWH 9	Silt	2	5	6 Bi
SWH 10	Silt	-	3	6 Bi
SWH 11	Silt	-	-	-
SWH 12	Silt	-	3	14 As
SWH 13	Silt	-	3	-
SWH 14	Silt	4	4	-
SWH 15	Silt	-	4	17 As
SWH 16	Silt	48	4	96 As
SWH 17	Silt	97	4	52 Cu 99 Zn 141 As 8 Sb
SWH 18	Silt	747	3	80 Cu 126 Zn .2 Ag 209 As 8 Sb

Sample	Descriptions	Au	Pt	Other
SS 1	Silt	5	6	19 As 8 Bi
SS 2	Silt	3	6	-
SS 3	Silt	-	6	8 Bi
SS 4	Silt	-	3	6 Bi
SS 5	Silt	-	5	6 Bi
SS 6	Silt	-	5	-
SS 7	Silt	2	3	-
SS 8	Silt	2	5	19 As
SS 9	Silt	2	-	-
SS 10	Silt	27	3	96 Zn 118 As 5 Sb
SS 11	Silt	77	4	96 Zn 137 As
SS 12	Silt	120	4	99 Zn 148 As 5 Sb
SS 13	Silt	74	3	99 Zn 126 As
SS 14	Silt	135	5	100 Zn 178 As 6 Sb
SS 15	Silt	112	5	286 As 7 Sb

APPENDIX II

STAGE II SAMPLING

Sample	Descriptions	Au	As	Other
7201	Soil from gossanous zone; jade alteration abundant	40	234	
7202	Soil from gossan; quartz float below	52	797	
7203	Listwanite with vertical white quartz-carbonate veinlets and much mariposite	16	220	
7204	Quartz vein with malachite and chalcocite and much mariposite and browny red carbonated ultramafic (siderite?); vein trends N20°E ≃10 m exposed	4	5	
7205	Rusty quartzose contact zone to quartz vein (7204)	2	13	
7206	Soil (taken below quartz vein 7204)	2	25	
7207	Soil " " " "	1	17	
7208	Soil " " " "	1	117	
7209	Soil " " " "	2	136	
7210	Soil " " " "	1	32	
7211	Soil " " " "	2	48	
7212	Soil (taken above quartz vein 7204)	6	39	
7213	Soil " " " "	1	11	
7214	Soil " " " "	1	12	
7215	Soil (area underlain by incredibly altered sericitic and carbonated schist)	2	120	
7216	Soil (taken above quartz vein 7204)	1	7	
7217	Soil (taken above 9775 across gossanous zone)	1	6	
7218	Soil " " " " "	31	65	
7219	Soil " " " " "	1	39	
7220	Soil " " " " "	1	138	
7221	Soil " " " " "	1	26	
7222	Soil (taken in listwanite zone with quartz veinlets)	2	196	

Sample	Descriptions	Au	As	Other
7223	Soil (silicified argillite - Cache Creek Group and schist float with quartz float abundant)	1	49	
7224	Soil " " " "	1	2	
7225	Soil " " " "	1	14	
7226	Soil " " " "	1	6	
7227	Soil " " " "	1	7	
7228	Soil (taken in gossanous area)	142	57	
7229	Soil	143	72	
7230	Soil	120	156	
7231	Soil	134	260	
7232	Medium grey silicified argillite(?) with rusty pyrite (≈3%)	5	5	
7233	Silt	11	55	
7234	Silt (taken avove SWH 16)	167	103	
7235	Soil - area of abundant quartz float at contact of medium grey schistose argillite (?) and olivine pyroxenite	2	8	
7236	Brown weathering, vcg harzburgite cut by pyroxenite veinlets			10 Pt
7237	" " " " (rusted chromite blebs?)			8 Pt
7238	Gossanous soil	560	545	
7239	Soil	1	81	
7240	Soil	1	3	
7241	Yellow gossanous soil	10	419	
7242	Soil at listwanite outcrop	47	496	
7243	Soil	1	8	
7244	Soil	1	10	
7245	Soil from area of jade - harzburgite	5	58	

Sample Descriptions

		Au	As	Other
7246	Soil	2	13	
7247	Soil	7	11	
7248	Soil	1	37	
7249	Quartz vein, trend 275°, massive, at least 3 m wide	1	4	
7250	Soil - Taken below quartz vein (7249)	1	60	
7251	Soil " " "	1	16	
7252	Soil " " "	1	13	
7253	Soil " " "	2	9	
7254	Soil " " "	2	12	
7255	Soil " " "	1	11	
7256	Soil " " "	2	9	
7257	Soil " " "	1	127	
7258	Soil " " "	4	6	
7259	Gossanous argillite(?) in creek bed below quartz vein RF3; jade above gossan and below quartz	2	46	
7260	Soil (taken below quartz vein 7261)	1	14	
7261	Quartz vein ≈10m due west of RF3, at least 3 m wide, gossan below vein	3	3	
7262	Silt - taken below quartz in gossan material	350	284	
7263	Soil (taken below quartz vein 7261)	3	12	
7264	Soil	25	79	
7265	Soil - organic	13	53	
7266	Soil - very organic	23	284	
7267	Soil	56	477	
7268	Red soil	19,900	12,821	
7269	Soil	89	83	

Soil Descriptions

		Au	As	Other
7270	Soil - organic	7	19	
7271	Soil - brownish colour	8	60	
7272	Soil - yellow brown	78	220	
7273	Soil	22	211	
7274	Soil (taken above 9757)	4	7	
7275	Soil (taken near asbestos showing)	19	17	
7276	Silt	41	52	
7277	Soil in gossan zone	980	897	
7278	Listwanite with quartz veinlets; jade located above sample site	1020	368	
7279	Soil in gossan zone	6130	1758	
7280	Listwanite with quartz veinlets	4	5	
7281	Soil - glacial moraine?	80	98	
7282	Soil - much rusty listwanite float	121	158	
7283	Soil	27	61	
7284	Soil	58	110	
7285	Soil	96	55	
7286	Rusty listwanite with quartz veinlets	2	7	
7287	Soil below 7286	87	65	
7288	Rusty listwanite with quartz veinlets	1	45	
7289	Soil - rusty	390	142	
7290	Soil	68	85	
7291	Rusty listwanite	7	532	
7292	Soil	34	49	
7293	Soil	74	157	
7294	Soil	11	104	

Sample Descriptions

		Au	As	Other
7295	Soil	5	17	
7296	Soil	2	8	
7297	Soil (taken at 6018)	7	28	
7298	Soil	6	145	
7299	Soil	11	73	
7300	Soil	154	193	
8901	Soil - yellow brown, in gossan	1120	690	
8902	Soil - Dark brown	9	14	
8903	Soil " "	3	6	
8904	Soil " "	2	6	
8905	Soil " "	2	7	
8906	Soil - dark brown, some listwanite fragments	3	8	
8907	Soil " " " "	1	11	
8908	Soil - dark brown, listwanite fragments present	2	12	
8909	Soil - light brown, white stain on rock frags	8	8	
8910	Soil	12	3	
8911	Quartzite	4	34	5 Sb
8912	Quartz breccia; quartz veins and veinlets (vuggy) form matrix to ovoid yellow carbonate (?) breccia fragments; jade float abundant	3780	1693	25 Sb
8913	Soil in gossan near 8912	240	426	
8914	" " "	2750	367	
8915	" " "	4880	2157	
8916	Soil	1020	1371	
8917	Soil	24	100	
8918	Soil	87	175	

Sample	Description	Au	As	Other
8919	Soil	86	72	
8920	Cumulate sample of listwanite and quartz vein	260	1021	36 Sb
8921	Brecciated carbonated, silicified argillite (?) with clots of galena(?) and stibnite in quartz	178	399	16,648 Sb
8922	Quartz vein ≃10 cm wide trending N40°E, dip vertical; bedding(?) or shears in country rock (carbonated) also vertical	7	49	147 Sb
8923	Greenish intensely silicified argillite(?) with disseminated galena(?)	5	13	104 Sb
8924	Silicified argillite(?) with abundant mariposite and 1% pyrite; listwanite	23	164	16 Sb
8925	Soil - taken below listwanite with quartz (8920) and below serpentine	52	75	
8926	Soil	210	803	
8927	Soil	370	1512	
8928	Soil	2790	3437	
8929	Dark green, very graphitic schist striking 080° or a shear zone at 080°(?)	1	8	
8930	Highly carbonated gossanous argillite(?) or ultramafic(?) with quartz veins and veinlets, with rusty carbonate.	3	17	
8931	Rusty carbonated rock with intense carbonate veinlets, locally intense mariposite (50%) and quartz veinlets	4	60	
8932	Soil - orange	28	48	
8933	Soil - above stibnite showing	24	176	
8934	Soil - above gossan	189	238	
8935	Soil	30	111	
8936	Soil	64	466	
8937	Soil - orange; area underlain by olivine pyroxenite.	8	31	
8938	Soil	16	26	
8939	Soil - area underlain by olivine pyroxene	6	34	
8940	Silt	3	829	

Sample Descriptions

		Au	As	Other
8941	Heavily silicified ultramafic with 20% mariposite	1	54	
8942	Greenish grey volcanic (andesitic?) with some vugs and black non-magnetic crystals; trace chalcopyrite	6	2	
8943	Light grey streaked by black; dacitic? volcanic (?) or altered andesite in a gossan zone; trace pyrite	3	31	
8944	Gossanous zone; brecciated by calcite veinlets with mariposite and quartz veinlets	7	106	
8945	Soil	13	10	
8946	Soil	1	8	
8947	Soil			
8948	Soil - below stibnite showing	380	1240	
8949	Soil - below listwanite	14	51	
8950	Soil - below jade outcrop	9	27	
8951	Soil	13	23	
8952	Soil - below listwanite	98	147	
8953	Soil - below listwanite	8240	4174	
8954	Soil - below listwanite	63	207	
8955	Soil - at contact of listwanite and olivine pyroxenite	8	56	
8956	Soil - listwanite fragments present	26	556	
8957	Soil - very organic	4	131	
8958	Soil - orange	6	27	
8959	Soil - rusty brown	177	168	
8960	Soil - brown, organic	10	28	
8961	Soil - very organic	9	279	
8962	Soil - olivine pyroxenite float present	2	49	
8963	Soil - brown	1	371	

Sample	Description	Au	As	Other
8964	Soil - brown	6	88	
8965	Soil - rusty	1	71	
8966	Soil - rusty	2	41	
8967	Soil	1	40	
8968	Soil	1	62	
8969	Soil - reddish	12	33	
8970	Soil - rusty	3	5	
8971	Soil - in listwanite area	1	13	
8972	Soil - " "	1	13	
8973	Soil " " " very red	2	243	
8974	Soil - in listwanite area	1	71	
8975	Soil - " "	1	13	
8976	Soil	4	6	
8977	Soil - rusty	1	7	
8978	Soil - in listwanite area	1	5	
8979	Silicified, carbonated ultramafic with some pyrite and hematitic blotches, quartz veinlets	2	4	
8980	Soil - below listwanite	211	143	
8981	Poorly developed listwanite sitting over a serpentine plug; trends N30°E	1	44	10 Sb
8982	Very talcose whitish, rusty weathering olivine pyroxenite(?) with much serpentine; in shear zone; trends N60°E	1	48	6 Sb
8983	Soil - below listwanite below 8986	295	228	
8984	Soil - " " "	3690	709	
8985	Soil - " " "	1050	628	
8986	Listwanite, very rusty trends N20°E; mariposite, quartz-carbonate veinlets capped by serpentine	112	195	55 Sb

Sample Descriptions - PHASE III

		Au	As
60501	Rock chips from sample 7268 soil; listwanite with mariposite and very fine-grained sulphide (arsenopyrite?); 1 cm wide barren quartz vein.	3620	3314
60502	Taken at UD-11 soil; float of listwanite, fractured, brecciated, quartz stockwork with mariposite, 3-5% f.g. disseminated pyrite, trace arsenopyrite.	16	96
60503	Taken from small creek between UD-13 and 14; local float boulders of listwanite with 1-2% disseminated pyrite, mariposite and minor quartz stockwork.	15	1545
60504	Half metre chip (bulk sample) across listwanite zone with quartz veinlets, mariposite, very siliceous, locally 5% disseminated pyrite taken at UD-14 in creek; quartz veinlets $031^{o}/85^{o}W$.	34	1226
60505	Talus hillside; grid 46N+45E?; subcrop talus boulders, weathered orange; brown on fresh surface with pervasive quartz-carbonate veining; no sulphides.	2	32
60506	1 metre chip near 8986	390	425
60507	1 metre chip	385	427
60508	1 metre chip; rusty cubes from pyrite; possible dunite dyke on west edge; vuggy quartz veinlets; crystals covered with yellow stain.	105	336
60509	30 metres west of 60508; same rock type but less quartz veinlets; more mariposite; no sulphides.	5	197
60510	Stibnite showing; 1 metre chip bulk sample; listwanite with mariposite, 1% pyrite in blebs, silicified.	3260	5756
60511	2 metres west of 60510; listwanite, more mariposite, locally more sulphides; 1 metre bulk chip.	610	2940
60512	2 metres west of 60511; fresh darker grey, stockwork quartz veinlets, mariposite, 1 cm black fragments with silver spindles of metallic; 1 metre bulk chip.	1220	3050
60513	30 metres west of 60512; listwanite, less mariposite, trace pyrite blebs, quartz stockwork; medium to dark grey.	810	3029

APPENDIX III

Sample	Descriptions	Au	As
60514	Taken at soils 8931-8927 listwanite, orange weathering, with mariposite, quartz veinlets stockwork with major 20 cm quartz vein trending 166°/82°W, 1 metre bulk chip.	41	110
60515	10 metres north of 47+70N, 45+90E; chromite listwanite	74	223
UD-1	Soil; taken near 7264	27	75
UD-2	Soil	31	70
UD-3	"	92	1351
UD-4	"	11	790
UD-5	"	330	611
UD-6	"	2220	1974
UD-7	"	10010	7937
UD-8	"	169	1761
UD-9	"	580	1629
UD-10	"	1400	2124
UD-11	"	2460	2750
UD-12	"	240	434
UD-13	"	172	337
UD-14	"	47	327
UD-15	"	18	242
UD-16	"	77	317
UD-17	"	8	26
UD-18	"	6	12
UD-19	"	1	103
UD-20	"	63	347
UD-21	Soil taken near 7273	12	89
6584	Orange listwanite trending NE; quartz vein runs NE; minor mariposite.	18	219

Sample	Descriptions	Au	As
6585	Grabs across 4 m of boulders	102	493
6586	Grabs across 4 m of subcrop local fine veins of arsenopyrite.	132	595
6587	High grade with arsenopyrite veins; vfg arsenopyrite in fine stringers, disseminated with dark grey alteration zones (with mariposite) in listwanite.	505	414
6588	4 m grabs; subcrop; no arsenopyrite noted	630	473
6589	Brown weathering peridotite with brown limonite alteration; minor weak orange weathering; grabs.	1	28
6590	Grey weathering black weakly serpentinized peridotite; knobby weathering.	2	5
6591	2 m pods of moderate orange listwanite; minor mariposite; altered knobby weathered serpentinite.	1	13
6592	Grabs f.g. sheared listwanite with mariposite; vfg sulphide-arsenopyrite?	350	1074
6593	Grabs; coarser knobby; local shearing; mariposite.	48	368
6594	Grab; local pink altered chromite?	1430	812
6595	Grabs across 2 m of subcrop orange listwanite, altered ultramafic-local mariposite.	24	144
6596	1 m subcrop of orange listwanite with f.g., grey altered, mariposite; 1-2% vfg sulphide-arsenopyrite.	670	1537
6597	Less altered, minor mariposite.	650	693
6598	Orange listwanite altered chromite-bearing ultramafic; locally dark grey, very hard alteration zones with 1-2% f.g. pyrite; zones occur as alteration haloes around fragments.	330	708
6599	3 m horizontal chip of orange listwanite; abundant dark grey zones of up to 1% sulphides.	590	1793
6600	3 m west of 6599; outcrop of orange listwanite with abundant grey pyrite zones; 2 m grab.	260	449
6801	Bottom of orange listwanite outcrop; local grabs of quartz-listwanite breccia zone with magnetite veins 2-5mm; no sulphides.	3560	2988

Sample	Description	Au	As
6802	3 metres up from 6801; grabs across 2 m of sheared orange listwanite; 50% mariposite and 1% fine pyrite in local grey alteration areas with magnetite?	555	973
6803	Grab; f.g. grey altered zone with minor pyrite, abundant mariposite locally through outcrop.	1420	2187
6804	3 m grab sample of almost completely grey hard altered orange weathering listwanite with 1% pyrite; abundant quartz veining running ≈030/W; abundant mariposite.	1050	3152
6805	3 m grab of similar material to 6804. 75% grey, silicified (?) listwanite with minor pyrite and silver sulphide; local pyrite in mariposite.	450	1442
6806	≈ 0.75 wide bright orange weathering zone surrounded by red-brown ankeritized ultramafic; orange zone has local zones - stringers of light grey silicified altered ultramafic; 1% pyrite.	320	812
6807	Grab of grey greasy very serpentinized outcrop.	2	16
6808	Grab; local mariposite.	64	75
6809	Grab of mariposite with trace sulphide.	36	71
6810	2 m east of 6803; orange listwanite runs 25 m E-W; 2.5 m chip; local grey silicified zones with minor pyrite; fine quartz vein 040/West; outcrop appears to be originally chromite-bearing dunite (at least locally); outcrop immediately below black strongly serpentinized ultramafic.	210	502
6811	Grabs over 2 m; orange ankeritized ultramafic.	6	208
52+03N/ 48+75E	Soil; yellow brown; slight quartz-carbonate alteration in peridotite.	52	64
52+10N/ 48+75E	Soil; yellow brown; trace listwanite.	46	72
52+00N/ 47+50E	Soil; yellow brown.	21	44
50+84N/ 48+55E	Soil; at listwanite contact.	370	391

Sample	Description	Au	As
51+12N/ 48+65E	Soil; brown; contains green serpentinized ultramafic fragments.	81	140
51+10N/ 48+56E	Red brown soil; below orange listwanite outcrop.	3100	1709
51+10N/ 48+60E	Soil.	8350	2405

APPENDIX IV

1. SAMPLE PREPARATION

a) Rocks of 250 - 1000 grams are crushed and pulverized.

b) Soils and silts are sieved to -80 mesh. If sample does not have enough -80 mesh fraction, the -20 mesh portion is used.

c) The heavy mineral sample is sieved to -20 mesh and then wet panned to 500 g using heavy mineral preparation by a liquid with a specific gravity of 2.96. The residual is dried and the magnetic fraction removed and pulverized. The pulverized portion is then analyzed.

2. DIGESTION

a) A .50 gram prepared sample is digested with 3 mls of 3 parts HCl, 1 part HNO_3 and 2 parts H_2O at 95°C for one hour and then diluted to 10 ml with water. This digestion method is used for the 30 element ICP analysis and also atomic absorption analysis.

b) For gold analysis a 10 gram sample is ignited at 600°C, digested with hot aqua regia, extracted by MIBK and then analyzed by graphite furnace atomic absorption.

c) For Au, Pd, Pt, Rh, a 10.0 gram sample is fused with an Ag inquart with fire assay fluxes. After cupulation the dore head is dissolved and analyzed by atomic absorption.

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.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 CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-7 ROCK P8-H.M.P9-10 SILT P11-SOIL AU11 PT** PD** RH** BY FA-MS. HG ANALYSIS BY FLAMLESS AA.

DATE RECEIVED: JUL 31 1987 DATE REPORT MAILED: Aug 13/87 ASSAYER: D. Toye .DEAN TOYE, CERTIFIED B.C. ASSAYER

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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	PT** PPB	PD** PPB	RH** PPB	HG PPB
850	1	3	18	37	.1	2089	53	344	4.03	7	6	ND	1	1	1	2	2	14	.01	.002	2	802	22.39	1	.01	44	.22	.01	.91	1	3	4	3	4	-
6001	1	23	2	49	.1	1732	66	372	4.57	25	5	ND	1	1	1	2	2	30	.02	.002	2	1603	18.13	7	.01	31	.50	.01	.01	2	1	5	4	3	-
6002	1	49	2	19	.1	1015	40	203	3.39	26	5	ND	1	1	1	2	2	25	.01	.003	2	1181	14.60	1	.01	14	.38	.01	.01	1	1	4	2	3	-
6003	1	34	2	26	.1	1300	60	264	4.55	17	6	ND	1	1	1	2	2	35	.01	.002	2	1463	21.54	1	.01	16	.54	.01	.01	2	1	6	5	2	-
6004	1	26	2	29	.1	1193	39	239	2.34	4	5	ND	1	1	1	8	2	13	.56	.001	2	1033	7.77	4	.01	4	1.62	.01	.01	2	1	3	3	2	-
6005	1	6	5	25	.1	1657	61	599	4.21	63	7	ND	1	1	1	2	2	4	.07	.003	2	315	20.58	6	.01	5	.01	.01	.01	1	1	3	2	2	-
6006	1	11	4	16	.2	998	41	358	2.63	36	5	ND	1	19	1	2	2	3	1.19	.002	2	345	16.31	3	.01	14	.01	.01	.01	1	2	2	2	2	-
6007	1	5	4	21	.2	1067	41	678	3.87	61	10	ND	1	26	1	6	3	17	6.46	.004	2	1053	12.07	7	.01	9	.33	.03	.01	1	55	4	5	2	10
6008	1	7	5	18	.1	1588	51	570	3.76	24	5	ND	1	9	1	2	2	3	.21	.003	2	238	21.20	3	.01	39	.01	.01	.01	1	3	3	2	2	-
6009	1	5	5	26	.2	1776	60	413	4.38	5	8	ND	1	1	1	2	2	25	.18	.003	2	1296	22.99	2	.01	80	.47	.01	.01	1	1	6	3	2	-
6010	1	55	2	32	.3	35	12	348	3.04	5	5	ND	1	18	1	5	2	91	1.78	.038	2	89	4.21	17	.28	2	3.04	.29	.06	2	1	2	2	2	-
6011	1	4	4	1	.2	12	1	22	.27	2	5	ND	1	1	1	2	2	1	.02	.001	2	12	.06	1	.01	2	.01	.01	.01	1	1	2	2	2	-
6012	1	15	6	34	.1	2121	81	806	4.99	7	5	ND	1	1	1	2	2	26	.04	.003	2	1194	26.84	1	.01	4	.35	.01	.01	1	2	7	6	2	-
6013	1	253	2	65	.4	125	24	449	3.73	4	5	ND	1	7	1	2	2	25	.63	.045	2	81	2.00	39	.25	2	2.07	.01	.09	1	1	2	10	2	-
6027	1	35	3	73	.2	282	28	1007	5.45	26	5	ND	1	101	1	8	2	21	6.49	.060	4	253	6.05	16	.01	2	.62	.07	.06	1	3	2	2	2	-
6033	1	6	11	8	.1	352	14	215	1.66	49	5	ND	1	48	1	2	2	5	.72	.003	2	199	6.38	5	.01	25	.06	.01	.01	1	1	2	2	2	-
6034	1	7	8	14	.3	1029	52	433	5.17	55	8	ND	1	3	1	2	2	4	.28	.003	2	229	21.64	1	.01	37	.04	.01	.01	1	5	6	4	3	-
9701	1	48	2	42	.2	68	18	279	3.77	9	5	NB	1	12	1	2	2	62	1.56	.034	2	78	2.86	9	.20	2	2.76	.08	.02	1	1	2	2	2	-
9702	1	4	2	32	.1	1760	57	419	4.09	9	6	ND	1	1	1	2	2	17	.06	.003	2	871	19.99	2	.01	38	.51	.01	.01	2	1	8	3	2	-
9703	1	3	2	25	.1	1863	59	579	4.46	7	5	ND	1	1	1	2	2	24	.03	.003	2	978	19.96	2	.01	81	.34	.01	.01	2	1	7	6	3	-
9704	1	113	2	41	.2	139	19	321	3.65	10	5	ND	1	13	1	6	2	62	1.63	.032	2	123	3.19	11	.16	2	2.64	.07	.01	4	1	2	2	2	-
9705	1	10	5	36	.1	1905	73	652	4.78	7	9	ND	1	1	1	2	2	21	.11	.002	2	1118	22.83	2	.01	31	.43	.01	.01	1	2	6	5	3	-
9706	1	5	3	21	.1	1353	45	620	3.81	5	10	ND	1	10	1	2	2	20	.69	.003	2	772	18.75	4	.01	18	.28	.01	.02	1	1	3	2	3	-
9707	1	8	2	30	.1	2007	68	564	4.31	6	5	ND	1	1	1	2	2	13	.07	.003	2	948	23.54	1	.01	49	.29	.01	.01	2	1	6	4	3	-
9708	1	3	6	20	.1	1357	50	504	3.54	10	8	ND	1	1	1	2	2	5	.04	.003	2	533	21.06	3	.01	10	.03	.01	.01	1	1	2	2	2	-
9709	1	17	4	34	.1	1951	71	641	4.49	6	5	ND	1	1	1	2	2	26	.07	.003	2	1204	23.06	2	.01	27	.52	.01	.01	2	2	6	5	3	-
9710	1	18	3	38	.1	2023	71	629	4.72	8	5	ND	1	1	1	2	2	25	.10	.003	2	1336	21.56	1	.01	9	.52	.01	.01	2	2	6	5	3	-
9711	1	9	5	38	.1	1861	69	745	4.36	2	5	ND	1	1	1	2	2	19	.07	.004	2	1113	18.72	3	.01	17	.35	.01	.02	2	1	5	3	2	-
9712	1	17	2	31	.1	1906	66	580	4.63	6	5	ND	1	1	1	2	2	24	.07	.002	2	1165	20.68	2	.01	25	.46	.01	.01	1	2	7	6	3	-
9713	2	13	6	39	.1	2598	99	740	5.08	6	5	ND	1	1	1	2	2	3	.02	.004	2	173	29.72	1	.01	7	.03	.01	.01	1	2	2	2	3	-
9714	1	27	2	17	.1	809	28	312	1.99	2	5	ND	1	1	1	2	3	17	.12	.003	2	646	7.16	7	.01	2	.38	.01	.01	1	7	55	73	5	-
9715	1	17	6	32	.1	1996	73	653	4.91	7	5	ND	1	1	1	2	2	10	.02	.004	2	346	23.03	3	.01	2	.24	.01	.01	2	2	7	7	3	-
9716	1	8	10	27	.1	2145	65	459	4.75	8	5	ND	1	1	1	2	2	1	.01	.003	2	142	16.01	1	.01	5	.01	.01	.01	1	1	2	2	3	-
9717	1	10	4	33	.1	2002	71	573	4.31	9	5	ND	1	1	1	2	2	25	.02	.004	2	1143	24.08	1	.01	22	.37	.01	.01	1	2	8	6	3	-
9718	1	17	5	34	.1	2062	77	759	4.65	8	5	ND	1	1	1	2	2	19	.01	.004	2	1300	22.55	2	.01	39	.30	.01	.02	2	2	9	6	4	-
9719	1	5	2	29	.1	1852	83	614	5.43	8	5	ND	1	1	1	2	2	17	.01	.004	2	1060	23.91	2	.01	34	.29	.01	.01	1	2	6	5	3	-
STD C/FA-5X	19	59	40	133	7.7	67	29	973	4.12	40	21	8	39	51	19	14	19	59	.51	.091	39	58	.83	182	.09	33	1.79	.06	.13	13	97	105	98	20	1300

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPB	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	PT** PPB	PD** PPB	RH** PPB
9720	1	3	5	62	.2	1228	56	1017	4.00	200	5	ND	1	359	1	11	6	28	3.53	.015	2	1379	11.21	35	.01	2	1.19	.01	.02	1	390	4	2	3
9721	1	3	2	1	.1	40	1	22	.34	2	5	ND	1	1	1	2	2	1	.01	.001	2	10	.11	1	.01	2	.01	.01	.01	1	3	2	2	2
9730	1	4	2	33	.1	2198	79	630	4.96	13	5	ND	1	1	1	2	2	16	.03	.004	2	1411	29.95	1	.01	16	.20	.01	.01	2	3	6	4	2
9732	1	12	2	46	.1	32	19	355	4.29	7	5	ND	1	4	1	2	2	104	2.90	.046	2	48	2.24	4	.30	2	2.83	.27	.04	1	2	2	2	2
9733	1	11	3	20	.1	1746	46	236	4.74	3	5	ND	1	1	1	2	7	9	.01	.005	2	488	20.40	1	.01	2	.16	.01	.01	1	3	6	6	2
9736	1	7	4	30	.2	2126	82	820	5.78	6	5	ND	1	1	1	2	2	11	.04	.004	2	408	27.81	1	.01	18	.16	.01	.01	1	1	6	5	2
9737	2	19	2	33	.1	2014	77	741	5.30	4	5	ND	1	1	1	2	2	12	.03	.004	2	594	26.15	2	.01	9	.17	.01	.01	1	2	7	4	2
9739	1	4	3	28	.1	1926	62	459	3.72	5	5	ND	1	1	1	2	7	18	.05	.004	2	1214	19.98	1	.01	31	.25	.01	.01	1	1	4	3	2
9741	1	13	4	33	.1	1838	73	676	4.86	6	5	ND	1	1	1	2	2	17	.19	.003	2	877	26.88	1	.01	16	.41	.01	.01	1	6	6	7	2
9744	1	3	2	5	.1	1	1	38	.15	2	5	ND	1	995	1	2	9	1	42.17	.003	2	1	.03	19	.01	2	.01	.08	.01	6	1	2	2	2
9748	1	15	8	35	.1	2011	76	753	6.34	8	5	ND	1	1	1	2	3	24	.01	.005	2	1391	27.92	2	.01	43	.24	.01	.01	1	1	7	4	2
9749	1	21	6	36	.1	2421	52	401	7.61	3	5	ND	1	5	1	2	2	22	.17	.007	2	848	25.65	1	.01	9	.38	.01	.01	1	2	6	4	2
9750	1	6	2	29	.1	1981	73	615	4.96	3	5	ND	1	1	1	2	2	14	.05	.004	2	590	25.67	1	.01	10	.21	.01	.01	1	1	8	5	2
9751	2	8	5	26	.1	1844	71	708	5.02	10	5	ND	1	2	1	2	2	11	.60	.003	2	530	25.26	1	.01	16	.37	.01	.01	1	1	5	2	2
9752	1	3	2	24	.2	1922	68	556	4.92	146	5	ND	1	20	1	51	3	18	2.50	.004	2	630	18.96	13	.01	8	.08	.01	.02	2	1	3	2	2
9753	1	10	2	18	.1	1415	50	399	3.62	361	5	ND	1	2	1	25	5	17	.23	.003	2	548	21.87	3	.01	7	.08	.01	.02	1	32	3	2	2
9754	1	32	2	39	.1	1529	60	381	3.72	9	5	ND	1	1	1	3	8	46	.22	.008	2	1842	12.66	5	.03	15	1.44	.01	.01	2	2	2	2	2
9755	1	1	3	16	.1	556	17	284	1.63	8	5	ND	1	1	1	2	2	38	.79	.017	2	161	5.69	2	.18	5	1.02	.01	.01	1	1	2	2	2
9758	2	12	3	16	.4	846	39	494	4.46	614	5	ND	1	11	1	22	6	19	.61	.004	2	810	21.63	2	.01	12	.10	.01	.02	3	733	4	3	2
9759	1	21	7	31	.1	1908	65	583	4.87	51	5	ND	1	3	1	2	6	31	1.15	.003	2	1214	22.60	1	.01	71	.62	.01	.01	1	4	7	5	2
9760	1	11	2	36	.1	2126	75	619	4.87	11	5	ND	1	1	1	2	2	19	.20	.004	2	1476	28.40	1	.01	119	.32	.01	.01	2	4	6	4	2
9761	1	10	4	21	.1	1997	49	645	4.21	104	5	ND	1	2	1	2	2	13	.13	.003	2	306	25.10	1	.01	16	.05	.01	.02	2	16	5	4	2
9762	1	1	8	44	.1	2596	93	723	5.03	8	5	ND	1	1	1	2	2	1	.02	.004	2	51	31.34	1	.01	14	.01	.02	.02	2	1	8	2	2
9763	1	14	2	30	.1	2100	73	654	4.95	6	5	ND	1	1	1	2	2	20	.03	.004	2	848	23.50	1	.01	11	.39	.01	.01	2	2	5	4	2
9764	1	10	3	35	.1	2349	86	745	5.21	6	8	ND	1	1	1	2	2	2	.02	.004	2	171	27.60	1	.01	24	.01	.01	.01	2	2	6	2	2
9765	1	9	8	36	.1	2071	81	686	4.99	8	5	ND	1	1	1	2	3	31	.01	.004	2	1588	24.93	1	.01	24	.50	.01	.01	1	1	2	2	2
9767	1	8	4	50	.1	2646	88	776	5.50	9	5	ND	1	1	1	2	3	8	.01	.008	2	668	24.47	16	.01	27	.07	.01	.01	1	1	6	3	2
9768	1	9	5	38	.1	1949	71	548	4.89	9	5	ND	1	1	1	2	4	30	.01	.004	2	1561	24.14	2	.01	39	.58	.01	.01	1	1	8	5	2
9769	1	1	2	7	.1	320	10	189	.56	2	5	ND	1	1	1	2	2	3	.64	.002	2	550	1.94	16	.01	2	.42	.01	.01	1	1	3	2	2
9770	1	28	4	32	.1	1854	66	701	4.85	5	5	ND	1	1	1	2	3	33	.63	.004	2	1632	24.55	1	.01	210	.65	.01	.02	3	1	6	5	2
9772	1	3	5	3	.1	15	1	45	.32	2	7	ND	1	1	1	2	2	1	.01	.001	2	13	.11	1	.01	2	.01	.01	.01	1	1	2	2	2
9773	1	3	6	14	.1	375	14	109	1.58	7	7	ND	1	1	1	2	2	3	.06	.004	2	108	6.09	4	.01	3	.03	.01	.01	1	1	2	2	2
9775	1	2	7	25	.1	1143	57	797	4.06	88	5	ND	1	7	1	2	4	4	.17	.004	2	470	19.48	5	.01	2	.13	.01	.01	1	1	4	2	2
9777	1	13	3	39	.1	1877	78	627	4.98	28	5	ND	1	1	1	2	4	36	.34	.005	2	1741	25.91	1	.01	101	.59	.01	.01	2	1	6	6	2
9778	1	13	2	24	.2	1283	55	607	4.18	66	5	ND	1	2	1	2	6	25	.67	.003	2	1084	20.13	8	.01	10	.27	.01	.02	1	1	3	2	2
9780	1	5	2	19	.2	1628	65	655	4.25	50	5	ND	1	1	1	2	4	13	.19	.004	2	528	21.94	9	.01	7	.05	.01	.03	1	5	3	2	2
9784	1	7	4	47	.1	2006	93	1575	5.95	8	5	ND	1	1	1	2	4	20	.04	.005	2	1177	21.40	5	.01	15	.31	.01	.01	2	1	2	2	2
STD C/FA-5I	20	61	39	133	7.7	68	29	1019	4.11	41	18	8	39	52	19	18	21	60	.51	.093	39	56	.86	181	.09	35	1.78	.06	.16	13	102	97	99	22

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	PT** PPB	PD** PPB	RH** PPB
9785	1	7	2	21	.1	1215	40	678	4.00	21	5	ND	1	11	1	12	6	11	.38	.007	2	459	17.20	29	.01	4	.07	.01	.02	1	7	5	2	5
9786	1	10	2	16	.1	1330	42	500	3.59	746	7	ND	1	2	1	35	4	14	.54	.004	2	299	19.04	2	.01	11	.07	.01	.01	1	38	4	2	2
9787	1	6	2	14	.1	979	32	446	2.96	160	5	ND	1	2	1	24	7	15	.74	.004	2	387	15.62	3	.01	9	.08	.01	.01	1	23	3	2	2
9788	1	6	2	11	.1	753	25	415	2.88	163	5	ND	1	2	1	17	7	9	.48	.004	2	214	13.38	3	.01	8	.05	.01	.02	5	66	3	2	2
9789	1	9	2	23	.1	1638	62	515	4.05	12	5	ND	1	1	1	6	3	17	.16	.005	2	842	20.33	4	.01	25	.28	.01	.01	1	4	8	7	2
9790	1	73	4	31	.1	92	13	315	2.90	5	5	ND	1	12	1	2	2	115	1.26	.048	2	82	3.79	29	.27	17	2.05	.18	.04	1	3	2	2	2
9791	1	3	2	7	.1	646	21	303	2.10	87	5	ND	1	1	1	13	2	6	.81	.003	2	180	9.09	2	.01	3	.04	.01	.01	1	2	2	2	2
9792	1	13	3	30	.1	1741	67	564	4.42	8	5	ND	1	1	1	8	5	21	.12	.004	2	1086	19.82	1	.01	12	.37	.01	.02	2	2	7	4	2
9793	1	14	3	30	.1	1721	67	521	4.34	17	5	ND	1	1	1	5	5	12	.07	.004	2	634	19.45	2	.01	19	.16	.01	.01	1	2	6	3	2
9794	1	8	2	31	.1	1964	68	567	4.30	5	5	ND	1	1	1	7	5	16	.09	.003	2	688	29.70	2	.01	4	.21	.01	.01	1	2	6	4	2
9795	1	10	2	32	.1	1820	77	593	4.98	8	5	ND	1	1	1	3	2	26	.07	.005	2	1024	22.75	3	.01	16	.31	.01	.01	2	2	7	8	2
9796	1	11	2	31	.1	1935	72	500	4.55	31	5	ND	1	1	1	3	4	19	.04	.005	2	968	20.54	4	.01	34	.33	.01	.01	1	2	6	4	2
9797	2	2	2	41	.1	2504	83	610	4.58	7	5	ND	1	1	1	10	2	1	.01	.004	2	65	26.64	1	.01	10	.01	.01	.02	2	1	9	2	2
9798	1	4	2	20	.1	1766	53	342	3.23	13	5	ND	1	1	1	4	4	17	.02	.004	2	737	19.06	2	.01	81	.28	.01	.01	1	2	6	7	2
9799	1	40	2	55	.3	71	19	708	4.52	3	5	ND	1	4	1	2	2	150	7.91	.038	2	86	3.24	11	.33	6	3.23	.14	.01	1	1	2	2	2
9801	1	31	2	42	.3	45	14	351	3.52	7	5	ND	1	12	1	3	2	102	2.80	.046	2	33	2.35	13	.28	2	2.11	.29	.10	3	2	2	2	2
9802	1	96	2	35	.3	71	15	609	3.78	3	5	ND	1	25	1	2	2	85	.43	.016	2	77	6.36	62	.05	5	3.89	.03	.08	1	1	2	2	2
9803	1	40	2	62	.2	70	21	776	5.70	24	5	ND	1	13	1	5	2	153	1.87	.047	2	55	6.81	33	.22	5	3.44	.17	.18	1	1	2	2	2
9804	1	6	2	26	.1	1650	59	542	3.42	12	5	ND	1	1	1	4	6	23	.09	.004	2	990	19.61	5	.01	25	.43	.01	.02	1	3	6	3	2
9805	1	10	2	17	.2	967	34	765	2.38	14	5	ND	1	36	1	4	5	29	4.15	.006	2	764	18.89	9	.01	25	.52	.01	.02	1	2	4	2	2
9806	1	9	2	26	.1	1720	58	505	3.32	7	5	ND	1	1	1	5	6	21	.12	.003	2	1022	19.11	1	.01	25	.38	.01	.02	1	2	6	4	2
9807	1	9	3	27	.1	1636	63	584	4.01	8	5	ND	1	2	1	2	3	26	.57	.004	2	1146	21.37	2	.01	25	.44	.01	.01	1	2	6	4	2
9808	1	20	6	31	.1	1863	72	632	4.54	4	5	ND	1	1	1	4	6	21	.09	.003	2	1040	20.13	1	.01	12	.33	.01	.01	3	3	7	5	2
9809	1	18	4	33	.1	1884	72	713	4.57	11	5	ND	1	1	1	4	4	19	.08	.003	2	955	21.24	1	.01	7	.33	.01	.01	2	3	7	6	2
9810	1	3	3	23	.1	1401	58	582	4.25	218	5	ND	1	1	1	18	4	6	.04	.004	2	515	18.73	3	.01	10	.02	.01	.01	1	18	7	2	2
9811	1	3	4	19	.2	1245	49	485	3.39	244	5	ND	1	2	1	26	6	5	.12	.004	2	454	16.02	2	.01	11	.02	.01	.01	1	2	4	2	2
9812	1	12	2	20	.1	1660	48	223	2.93	9	5	ND	1	1	1	8	6	20	.02	.002	2	802	16.24	2	.01	16	.35	.01	.01	1	3	7	4	2
9813	1	3	6	26	.1	1583	52	669	4.38	144	5	ND	1	1	1	15	7	11	.04	.007	2	777	13.58	8	.01	14	.05	.01	.02	2	1	7	2	2
9814	1	7	2	31	.1	1903	66	541	4.48	9	5	ND	1	1	1	2	3	3	.02	.003	2	129	15.88	2	.01	60	.02	.01	.01	2	1	6	2	2
9815	1	3	3	29	.2	1615	62	653	4.37	8	5	ND	1	1	1	7	5	3	.03	.003	2	160	16.41	3	.01	66	.02	.01	.01	2	2	7	3	2
9816	1	3	2	22	.1	1318	50	594	3.70	11	5	ND	1	1	1	3	5	3	.09	.003	2	146	16.26	2	.01	50	.02	.01	.02	1	3	7	2	2
9817	1	3	2	21	.1	1350	51	523	3.64	158	5	ND	1	1	1	21	4	4	.13	.003	2	163	19.78	3	.01	8	.01	.01	.01	4	4	4	2	2
9818	1	3	2	14	.4	772	30	323	2.25	84	7	ND	1	2	1	11	5	2	.23	.004	2	129	10.28	2	.01	12	.01	.01	.01	1	3	2	2	2
9819	1	3	2	42	.1	2137	80	636	4.93	40	5	ND	1	1	1	3	2	2	.03	.004	2	85	22.05	2	.01	78	.01	.01	.01	3	1	9	2	2
9820	1	2	2	23	.1	1444	54	513	3.60	69	5	ND	1	2	1	6	3	3	.07	.004	2	131	20.30	6	.01	23	.01	.01	.01	3	2	5	2	2
9821	1	4	4	37	.1	2124	74	531	4.37	52	5	ND	1	1	1	4	4	3	.01	.003	2	183	20.03	1	.01	9	.02	.01	.01	1	2	10	4	2
STD C/FA-5I	19	59	40	132	7.1	67	28	947	3.98	42	23	8	39	51	19	14	18	59	.49	.089	38	59	.87	182	.08	34	1.73	.06	.14	13	105	100	98	18

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	PT** PPB	PD** PPB	RH** PPB
9822	2	3	2	41	.1	2164	79	656	5.10	8	5	ND	1	1	1	2	2	3	.02	.004	2	199	24.19	1	.01	2	.01	.01	.01	2	34	6	2	3
9823	2	3	2	36	.1	2157	73	622	4.57	6	5	ND	1	3	1	2	2	2	.04	.005	2	172	22.76	2	.01	93	.01	.01	.01	2	3	7	2	2
9824	1	4	3	34	.1	2218	75	491	4.91	48	5	ND	1	1	1	2	2	4	.01	.004	2	354	18.90	2	.01	75	.02	.01	.01	1	2	6	2	2
9825	2	2	4	22	.1	1495	54	539	3.84	134	5	ND	1	1	1	2	2	4	.09	.004	2	182	19.71	3	.01	6	.01	.01	.01	1	2	4	2	2
9826	2	2	2	35	.2	2018	74	643	4.65	31	5	ND	1	1	1	2	2	4	.06	.004	2	210	20.69	2	.01	132	.02	.01	.01	1	2	7	3	2
9827	2	3	5	36	.1	2042	73	564	4.64	11	5	ND	1	1	1	2	2	3	.05	.005	2	229	20.69	2	.01	42	.02	.01	.01	1	2	7	2	2
9828	2	2	4	23	.1	1509	53	519	3.56	20	5	ND	1	1	1	2	2	3	.08	.004	2	109	21.05	3	.01	6	.01	.01	.01	2	2	8	2	2
9829	1	2	5	28	.1	1599	61	714	4.27	16	5	ND	1	2	1	2	2	3	.27	.004	2	178	20.55	3	.01	39	.01	.01	.01	1	1	5	2	2
9830	2	3	2	36	.1	2010	73	626	4.64	8	5	ND	1	1	1	2	2	5	.05	.003	2	269	20.16	1	.01	4	.03	.01	.01	1	2	7	4	2
9831	1	6	2	21	.1	1103	54	809	4.44	233	5	ND	1	2	1	10	2	6	.29	.004	2	218	18.95	4	.01	17	.03	.01	.01	1	9	6	3	2
9832	2	5	5	22	.1	1433	56	546	3.58	91	5	ND	1	1	1	4	2	4	.06	.004	2	161	21.10	3	.01	30	.01	.01	.01	2	15	5	2	2
9833	2	4	2	35	.1	2046	74	499	4.78	48	5	ND	1	1	1	2	2	4	.03	.004	2	184	20.34	1	.01	32	.01	.01	.01	1	2	7	3	2
9834	2	2	4	23	.2	1267	48	859	2.98	26	5	ND	1	12	1	2	2	3	5.64	.003	2	90	18.48	16	.01	14	.01	.01	.01	1	2	6	2	2
9835	2	3	3	39	.1	2182	78	408	4.99	28	5	ND	1	1	1	2	2	2	.01	.004	2	42	23.41	1	.01	14	.01	.01	.01	1	1	4	2	2
9836	1	6	2	15	.1	936	42	607	3.74	5	5	ND	1	1	1	2	2	6	.15	.004	2	157	15.34	2	.01	14	.03	.01	.01	1	1	5	2	2
9837	1	5	5	6	.1	572	24	377	2.12	6	5	ND	1	3	1	4	2	9	2.49	.003	2	328	12.52	1	.01	2	.15	.01	.01	1	1	2	2	2
9838	1	11	5	21	.2	1625	52	574	4.08	180	5	ND	1	3	1	22	4	15	.55	.003	2	389	17.19	2	.01	29	.13	.01	.02	1	7	5	4	2
9839	1	9	2	10	.1	1100	41	418	2.29	81	5	ND	1	3	1	13	3	13	1.27	.003	2	621	12.34	1	.01	6	.26	.01	.01	1	5	3	3	2
9840	1	7	2	13	.1	1051	39	559	3.71	6	5	ND	1	1	1	2	3	15	.95	.004	2	431	17.51	2	.01	4	.16	.01	.01	1	1	5	2	2
9841	1	19	6	27	.1	1981	70	540	4.50	6	5	ND	1	1	1	3	4	24	.05	.003	2	1046	19.33	3	.01	57	.44	.01	.01	2	2	6	5	2
9842	1	16	2	29	.1	1979	73	583	4.63	6	5	ND	1	1	1	2	2	19	.06	.003	2	840	20.30	1	.01	36	.38	.01	.01	1	2	5	4	2
9843	1	13	7	17	.1	1264	47	608	3.98	105	5	ND	1	2	1	6	5	19	.74	.004	2	617	18.96	1	.01	9	.27	.01	.01	1	27	4	4	2
9844	1	19	4	28	.2	1935	73	631	4.71	4	5	ND	1	1	1	2	3	21	.08	.003	2	860	20.05	1	.01	21	.42	.01	.02	1	3	6	5	2
9845	1	17	3	27	.1	1911	69	419	4.47	12	5	ND	1	1	1	2	3	24	.02	.004	2	1051	19.60	1	.01	7	.43	.01	.01	1	2	7	5	2
9846	2	4	4	32	.1	2428	91	656	4.80	5	5	ND	1	1	1	2	2	19	.01	.005	2	1258	24.82	1	.01	51	.22	.01	.01	1	2	6	5	2
9847	1	34	7	31	.1	38	6	73	.93	5	5	ND	2	2	1	2	2	14	.12	.008	5	22	.70	14	.09	2	.34	.02	.02	1	1	2	2	2
9848	2	4	2	23	.1	1661	64	298	4.87	6	5	ND	1	2	1	2	2	20	.02	.003	2	922	21.39	46	.01	63	.27	.01	.02	1	3	6	6	2
9849	1	37	2	36	.1	25	15	301	3.47	5	5	ND	1	5	1	2	2	106	.95	.036	2	20	1.09	2	.24	2	1.57	.17	.03	1	1	2	2	2
9850	1	10	5	22	.2	1103	35	290	3.56	7	5	ND	1	1	1	3	5	26	.23	.004	2	1524	14.06	1	.01	4	.39	.01	.01	1	2	3	5	2
RF-1	1	13	4	20	.1	43	4	318	.94	5	8	ND	2	11	1	2	2	29	.25	.020	6	12	.41	23	.01	2	.46	.01	.07	1	2	2	2	2
RF-2	1	1	2	2	.1	10	1	41	.42	2	5	ND	1	1	1	2	2	1	.01	.001	2	13	.11	2	.01	2	.01	.01	.01	1	2	2	2	2
RF-3	1	3	4	47	.1	182	14	106	2.43	7	7	ND	1	2	1	2	2	50	.05	.001	3	279	4.05	6	.01	2	1.53	.01	.02	1	43	2	2	2
RF-4	1	6	3	10	.1	34	3	249	.93	8	7	ND	1	49	1	2	2	6	.62	.004	2	25	.61	12	.01	2	.17	.01	.03	1	3	2	2	2
SMR-1	2	7	2	33	.1	1730	85	994	5.11	6	5	ND	1	1	1	2	2	18	.03	.004	2	1015	25.16	1	.01	5	.18	.01	.02	1	2	6	3	2
SMR-2	1	5	2	13	.1	339	13	260	1.14	28	6	ND	1	1	1	2	2	2	.01	.006	2	136	.76	11	.01	2	.04	.01	.01	1	1	2	2	2
SMR-3	2	21	3	40	.1	2187	73	824	4.41	7	5	ND	1	1	1	2	3	24	.04	.006	2	1404	22.45	6	.01	22	.38	.01	.01	1	2	7	4	2
STD C/FA-5I	19	60	41	133	7.6	68	29	1021	4.08	41	18	8	39	52	18	18	18	60	.50	.094	39	61	.87	181	.09	35	1.77	.06	.14	12	99	103	97	19

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	PT** PPB	PD** PPB	RH** PPB
SMR-4	2	15	6	89	.2	2043	77	640	5.01	8	5	ND	1	1	1	2	7	24	.02	.007	2	1283	21.88	21	.01	7	.41	.01	.01	1	2	7	4	2
SMR-5	2	12	5	34	.2	1503	73	764	4.37	6	5	ND	1	1	1	2	8	22	.45	.004	2	1675	19.81	10	.01	56	.32	.01	.01	1	2	8	7	2
SMR-6	1	14	4	40	.3	2083	76	615	4.57	5	5	ND	1	1	1	2	4	20	.03	.004	2	1124	21.94	5	.01	5	.36	.01	.02	1	1	6	5	2
SMR-7	1	10	2	41	.3	1859	62	477	4.15	9	5	ND	1	1	1	2	8	20	.01	.005	2	1118	19.55	2	.01	11	.43	.01	.01	1	1	4	4	2
SMR-8	1	6	6	28	.1	1716	62	416	4.60	7	5	ND	1	1	1	2	9	23	.07	.003	2	1266	17.41	3	.01	99	.40	.01	.01	2	2	6	5	2
SMR-9	1	40	3	39	.2	169	14	376	3.15	7	5	ND	1	21	1	3	2	103	2.10	.050	2	24	1.57	14	.36	2	1.54	.20	.05	3	1	2	2	2
SMR-10	1	30	4	42	.2	1576	58	623	4.18	19	5	ND	1	1	1	2	9	32	.04	.003	2	1423	18.93	7	.01	25	.78	.01	.01	2	2	6	5	2
SMR-11	1	4	2	42	.2	3238	77	476	3.89	5	7	ND	1	1	1	2	2	1	.02	.004	2	123	29.11	1	.01	4	.01	.02	.01	1	1	2	2	2
SMR-12	1	22	3	28	.1	1701	60	395	4.15	6	5	ND	1	1	1	2	6	30	.01	.004	2	1183	22.82	1	.01	47	.50	.01	.01	1	1	6	4	2
SMR-13	1	2	55	6	.1	31	1	29	.31	3	5	ND	1	1	1	2	2	2	.01	.001	2	28	.23	2	.01	2	.10	.01	.01	1	1	2	2	2
SMR-14	1	2	66	9	.1	36	1	49	.28	5	5	ND	1	1	1	2	2	3	.01	.001	2	29	.33	7	.01	5	.12	.01	.01	1	1	2	2	2
SMR-15	1	36	19	18	.1	753	35	679	2.03	69	5	ND	1	237	1	7	2	18	4.09	.002	2	707	5.21	4	.01	2	.65	.01	.01	2	2	5	3	2
SMR-16	1	3	6	7	.1	19	1	42	.27	2	5	ND	1	5	1	2	2	1	.07	.001	2	8	.15	6	.01	2	.02	.01	.01	1	1	2	2	2
SMR-17	1	11	2	19	.2	1080	42	479	3.21	83	5	ND	1	130	1	2	6	10	1.69	.002	2	643	14.36	2	.01	2	.23	.01	.01	1	2	4	2	2
SMR-18	1	2	2	15	.1	714	35	569	3.42	100	5	ND	1	54	1	2	5	10	.76	.002	2	668	12.51	3	.01	2	.23	.01	.01	1	1	3	2	2
SMR-19	1	9	4	18	.2	922	34	637	2.80	59	5	ND	1	295	1	2	5	11	3.92	.004	2	710	12.46	2	.01	2	.32	.01	.01	1	1	4	2	2
SMR-20	1	3	2	15	.1	266	20	334	2.11	30	5	ND	1	18	1	2	2	4	.35	.003	2	91	6.82	2	.01	2	.03	.01	.01	1	1	2	2	2
SMR-21	1	8	4	24	.1	1010	45	620	3.92	44	5	ND	1	16	1	2	6	14	.60	.004	2	751	14.11	4	.01	4	.27	.01	.01	1	2	5	2	2
SMR-22	1	4	2	38	.1	998	39	678	3.51	431	5	ND	1	119	1	7	7	14	1.91	.004	2	941	10.33	7	.01	2	.38	.01	.01	2	1	6	5	2
SMR-23	1	8	2	15	.1	686	36	564	3.16	10	5	ND	1	6	1	2	5	13	.70	.002	2	660	9.39	2	.01	2	.23	.01	.01	1	1	6	3	2
SMR-24	1	9	2	36	.1	698	39	530	3.06	35	5	ND	1	8	1	2	5	15	.50	.002	2	719	9.44	1	.01	2	.26	.01	.01	2	1	4	3	2
SMR-25	1	10	5	35	.2	2211	81	593	4.90	9	5	ND	1	1	1	2	2	11	.01	.005	2	995	25.55	4	.01	6	.18	.01	.01	1	2	4	2	2
SMR-26	1	13	2	24	.1	1471	59	647	3.64	13	5	ND	1	36	1	2	9	26	2.42	.005	2	1249	17.40	9	.01	6	.36	.01	.01	1	1	6	6	2
SMR-27	1	21	2	29	.1	1558	61	618	4.48	110	5	ND	1	1	1	10	7	28	.27	.004	2	1295	14.32	13	.01	10	.57	.01	.01	2	2	7	6	2
SMR-28	1	10	2	17	.1	1003	38	606	4.02	219	5	ND	1	5	1	452	5	24	.82	.004	2	731	16.48	4	.01	7	.30	.01	.02	1	41	4	4	2
SMR-29	1	12	3	16	.1	1339	41	534	3.75	267	5	ND	1	2	1	529	7	18	.42	.003	2	612	15.69	6	.01	7	.15	.01	.03	1	208	9	7	2
SMR-30	1	18	2	30	.1	1241	55	509	3.81	104	5	ND	1	1	1	30	8	17	.06	.004	2	1049	13.71	6	.01	46	.32	.01	.01	1	3	10	9	2
SMR-31	1	13	2	28	.2	986	40	579	3.82	102	5	ND	1	3	1	2	7	25	1.27	.003	2	927	14.99	4	.01	5	.41	.01	.02	2	29	5	3	2
SMR-32	1	8	2	8	.1	329	15	842	2.14	99	5	ND	1	31	1	17	7	9	9.25	.004	2	446	9.89	35	.01	2	.25	.15	.01	1	2	2	3	2
SMR-33	1	2	2	13	.1	640	29	419	2.19	68	5	ND	1	23	1	2	3	3	1.34	.004	2	107	20.13	9	.01	14	.02	.01	.01	1	1	3	2	2
SMR-34	1	3	2	14	.1	676	33	537	2.33	53	5	ND	1	42	1	2	6	11	7.77	.004	2	513	17.42	6	.01	30	.22	.09	.01	1	1	3	3	2
SMR-35	1	8	2	22	.1	2218	51	350	2.97	15	8	ND	1	1	1	2	4	2	.01	.004	2	153	14.44	1	.01	17	.05	.01	.01	1	2	5	2	2
SMR-36	1	12	4	24	.1	1786	62	410	4.33	27	5	ND	1	1	1	2	6	1	.04	.004	2	59	14.72	1	.01	24	.01	.01	.01	1	2	5	3	2
SMR-37	1	11	2	28	.3	2069	63	555	4.10	86	5	ND	1	1	1	23	4	10	.10	.004	2	450	15.20	7	.01	34	.16	.01	.02	2	2	8	6	2
SMR-38	1	1	2	25	.1	600	38	552	3.45	31	5	ND	1	1	1	2	4	1	.11	.004	2	20	13.19	6	.01	5	.01	.01	.01	1	1	3	2	2
SMR-39	1	1	6	23	.1	1465	54	465	3.47	6	12	ND	1	1	1	2	4	2	.28	.004	2	65	18.88	4	.01	4	.01	.01	.01	1	1	4	2	2
STD C/FA-5X	19	59	41	132	7.1	68	28	943	4.05	44	18	8	38	51	18	14	20	58	.50	.091	38	60	.85	181	.09	34	1.75	.06	.14	12	100	98	102	19

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPB	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	PT** PPB	PD** PPB	KH** PPB
SWR-40	1	23	7	56	.1	2335	81	750	5.17	9	6	ND	1	1	1	2	2	21	.01	.007	2	1378	27.75	2	.01	14	.33	.01	.01	1	3	8	4	3
SWR-41	1	4	4	34	.1	1880	71	410	6.04	11	5	ND	1	1	1	7	2	1	.01	.006	2	215	12.76	2	.01	3	.01	.01	.01	1	3	7	1	3
SWR-42	1	11	6	31	.1	1900	64	531	4.90	31	5	ND	1	1	1	2	2	34	.02	.005	2	1354	27.39	2	.01	28	.78	.01	.01	2	3	5	5	2
SWR-43	1	8	19	37	.1	2293	91	769	6.32	19	5	ND	2	1	1	2	2	5	.04	.005	2	575	21.70	2	.01	29	.01	.01	.01	2	3	6	23	2
SWR-44	1	29	18	16	.1	1695	80	501	3.25	84	5	ND	1	62	1	5	2	9	1.92	.006	2	626	8.04	8	.01	2	.15	.01	.01	1	2	5	5	2
SWR-45	1	54	4	134	.2	69	36	1520	10.73	2	5	ND	3	75	1	8	2	253	3.75	.124	8	21	3.72	36	.52	2	4.40	.01	.05	3	2	2	3	2
SWR-46	1	8	3	13	.1	427	21	309	1.30	29	5	ND	1	12	1	2	2	9	.22	.005	2	545	1.28	9	.01	2	.21	.01	.01	2	2	2	2	2
SWR-47	1	9	15	20	.2	794	35	615	2.55	274	6	ND	1	31	1	2	2	8	.72	.006	2	419	3.47	20	.01	2	.17	.01	.01	1	3	2	2	2
SWR-48	1	5	4	42	.1	842	44	1169	4.09	119	5	ND	1	263	1	4	2	33	6.05	.005	2	1029	7.93	21	.01	2	.91	.05	.01	3	2	3	5	2
SWR-49	2	17	10	27	.1	31	2	145	1.69	15	5	ND	8	11	1	2	2	21	.19	.062	15	26	.38	227	.29	2	.66	.01	.32	1	5	2	3	2
SWR-50	1	20	2	32	.1	1954	75	736	6.17	16	5	ND	1	2	1	2	2	37	.66	.006	2	1369	22.37	3	.01	65	.44	.01	.01	4	3	6	6	2
SWR-51	1	2	4	29	.1	2161	83	709	5.10	43	5	ND	1	1	1	2	2	11	.13	.004	2	931	22.33	4	.01	26	.19	.01	.01	2	3	4	4	2
SWR-52	1	10	2	14	.1	66	5	181	.93	18	5	ND	1	3	1	2	2	9	.05	.015	2	40	.19	8	.01	2	.10	.01	.02	1	2	2	2	2
SWR-53	1	2	12	2	.2	20	1	62	.39	3	5	ND	1	1	1	2	2	1	.01	.001	2	12	.13	2	.01	2	.01	.01	.01	1	2	2	2	2
SWR-54	1	79	9	110	.2	161	31	1031	7.52	48	5	ND	3	24	1	8	2	41	7.48	.113	16	155	1.53	86	.01	13	1.96	.13	.20	3	3	2	4	2
SWR-55	1	56	7	56	.1	63	19	544	4.15	7	5	ND	1	24	1	2	2	68	1.14	.040	2	138	2.28	11	.41	13	2.40	.03	.03	1	2	2	3	2
SWR-56	1	37	5	12	.1	6	1	81	.93	5	5	ND	1	1	1	3	2	5	.02	.014	2	4	.06	102	.01	2	.13	.01	.06	1	3	2	2	2
SWR-57	1	14	2	18	.1	1071	40	630	4.05	31	6	ND	1	1	1	3	2	25	1.15	.003	2	984	17.45	2	.01	4	.40	.01	.01	3	8	4	5	2
SWR-58	1	11	2	15	.1	1162	37	570	3.66	22	5	ND	1	1	1	2	2	20	.98	.004	2	519	17.02	3	.01	3	.18	.01	.01	1	3	2	5	2
SWR-59	1	16	5	16	.1	663	41	755	4.02	10	5	ND	1	1	1	3	2	23	.92	.004	2	1009	15.43	2	.01	6	.49	.01	.01	2	2	4	4	2
SWR-60	1	25	3	25	.1	1520	65	593	4.71	28	5	ND	1	1	1	3	2	33	.28	.003	2	1473	17.31	2	.01	37	.63	.01	.01	1	3	6	6	2
SWR-61	1	15	4	17	.2	1202	39	595	3.93	66	5	ND	1	2	1	2	2	21	1.31	.004	2	434	18.57	2	.01	5	.13	.01	.01	7	12	3	3	2
SWR-62	1	15	2	19	.1	966	51	773	4.42	15	5	ND	1	1	1	4	2	26	1.47	.003	2	1231	16.30	1	.01	7	.52	.01	.01	1	2	3	4	2
SWR-63	1	9	5	21	.1	1394	54	655	4.05	43	5	ND	1	1	1	2	2	4	.01	.004	2	228	18.90	4	.01	4	.01	.01	.01	1	2	4	2	2
SWR-64	1	9	4	22	.1	1603	55	535	4.52	102	5	ND	1	1	1	15	2	11	.10	.004	2	634	18.79	4	.01	22	.02	.01	.01	1	8	3	4	2
SWR-65	1	13	4	33	.1	1780	88	672	5.98	41	5	ND	1	1	1	2	2	9	.02	.004	2	948	24.07	2	.01	54	.04	.01	.01	2	2	3	3	2
SWR-66	1	12	4	34	.2	1712	77	874	4.87	16	5	ND	1	1	1	2	2	28	.15	.004	2	1466	23.56	2	.01	24	.42	.01	.01	2	3	4	4	2
SWR-67	1	8	2	13	.1	1074	31	294	2.11	63	7	ND	1	1	1	11	2	3	.05	.005	2	242	10.07	2	.01	12	.01	.01	.01	1	6	2	2	2
SWR-68	1	11	5	25	.1	1201	62	843	4.64	23	5	ND	1	1	1	2	2	24	.03	.005	2	1446	20.07	4	.01	11	.25	.01	.01	1	2	3	5	2
SWR-69	1	12	4	15	.3	932	32	522	3.21	63	5	ND	1	15	1	4	2	18	3.37	.004	2	508	14.63	5	.01	5	.17	.01	.01	2	21	2	3	2
SWR-70	1	10	3	21	.1	1268	49	610	4.22	188	5	ND	1	2	1	11	2	21	.45	.004	2	699	17.01	5	.01	9	.13	.01	.01	1	20	3	4	2
SWR-71	1	17	2	20	.1	1281	50	697	4.06	93	5	ND	1	1	1	2	2	16	.44	.005	2	593	20.14	4	.01	9	.18	.01	.01	1	9	2	2	2
SWR-72	1	6	3	13	.1	910	29	543	3.67	8	5	ND	1	1	1	2	2	17	.46	.004	2	602	16.55	5	.01	2	.18	.01	.01	1	2	2	3	2
SWR-73	2	1	3	44	.1	2573	88	673	5.05	14	5	ND	1	1	1	2	2	1	.02	.004	2	45	29.66	1	.01	3	.01	.02	.01	1	2	7	3	2
SWR-74	1	1	2	7	.1	417	13	662	.71	18	10	ND	1	98	1	2	2	1	1.48	.004	2	54	29.29	3	.01	58	.01	.01	.01	1	2	2	2	2
SWR-75	1	17	4	45	.1	1839	75	755	5.11	8	5	ND	1	1	1	2	2	12	.09	.006	2	705	20.65	5	.01	5	.20	.01	.01	2	2	4	2	2
STD C/FA-SI	19	60	37	130	7.5	69	28	1018	4.09	42	17	8	39	52	19	18	21	59	.51	.093	39	61	.85	177	.09	39	1.78	.06	.15	13	103	98	101	18

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	AUXX PPB	PIXX PPB	PDXX PPB	SHXX PPB
SWR-76	1	8	5	12	.3	499	34	586	3.41	27	8	ND	1	1	1	7	4	14	.06	.004	2	645	10.67	2	.01	2	.20	.01	.01	1	1	6	2	3
SWR-77	1	10	13	37	.2	989	46	746	5.01	35	5	ND	1	18	1	6	5	95	1.36	.015	2	387	14.47	2	.02	54	1.79	.01	.02	1	8	6	5	3
SWR-78	1	4	2	13	.1	495	31	550	3.28	29	5	ND	1	1	1	5	3	13	.19	.004	2	679	11.38	2	.01	2	.22	.01	.01	1	1	5	2	3
SWR-79	1	9	3	15	.1	818	39	662	3.50	78	5	ND	1	159	1	12	2	15	2.03	.005	2	855	10.28	3	.01	2	.27	.01	.01	1	2	5	2	3
SWR-80	1	2	4	3	.2	213	7	118	.72	13	6	ND	1	11	1	2	2	2	.09	.002	2	104	1.84	1	.01	2	.04	.02	.01	1	1	2	2	2
SWR-81	1	25	11	22	.2	856	35	793	3.02	98	5	ND	1	324	1	14	4	28	4.92	.013	2	528	9.69	4	.01	2	.91	.01	.01	2	1	2	2	2
SWR-82	1	15	2	24	.1	54	11	259	1.99	3	5	ND	1	20	1	2	2	50	.85	.036	2	238	2.10	6	.14	10	1.46	.10	.02	1	1	2	2	2
SWR-83	1	93	7	18	.4	492	29	541	2.06	88	6	ND	1	212	1	6	2	30	5.42	.003	2	825	5.01	3	.01	2	.75	.02	.01	2	1	2	2	2
SWR-84	1	4	3	2	.2	96	4	65	.45	13	5	ND	1	8	1	2	2	2	.06	.003	2	49	.58	1	.01	15	.04	.02	.01	1	1	2	2	2
SWR-85	1	2	4	2	.1	29	1	43	.29	2	5	ND	1	2	1	2	2	1	.04	.001	2	12	.12	1	.01	2	.01	.01	.01	1	1	2	2	2
STD C/FA-5I	19	58	40	133	7.6	71	29	947	4.08	42	14	7	38	51	19	14	17	59	.51	.092	38	63	.93	180	.08	32	1.76	.06	.14	12	97	100	105	19

LACANA MINING PROJECT-MJV FILE # 87-2898

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	PT** PPB	PD** PPB	RH** PPB	H.M. %	H.M. GM
6014	1	60	10	108	.1	433	37	825	7.97	32	5	ND	1	33	1	2	2	96	1.06	.034	5	994	2.76	39	.44	6	1.98	.03	.06	2	136	3	4	2	4.74	20.40
6019	1	49	13	113	.1	803	67	896	12.51	34	5	ND	1	20	1	2	6	94	.74	.030	3	2588	5.46	26	.26	5	1.38	.03	.05	2	15	5	5	2	9.44	32.10
6022	1	15	8	82	.1	146	17	697	4.35	10	5	ND	2	94	1	2	2	90	1.64	.046	8	560	3.15	32	.43	11	1.83	.02	.03	1	35	2	3	2	2.50	15.50
6036	1	18	7	86	.2	402	36	769	9.16	11	5	ND	3	45	1	2	2	111	1.01	.037	10	1596	2.58	32	.31	6	1.25	.02	.04	2	11	3	3	2	5.83	30.90
9723	1	37	2	57	.2	461	35	1199	7.16	25	5	ND	1	28	1	8	4	46	.73	.077	5	776	12.10	23	.25	2	.97	.01	.04	1	1	2	2	2	1.92	9.40
9724	1	10	3	52	.1	1721	68	594	5.90	31	5	ND	1	2	1	5	5	19	.11	.011	2	677	16.78	6	.03	2	.29	.01	.01	1	1	7	5	2	14.87	68.40
9727	1	16	5	62	.1	1496	62	644	7.17	35	5	ND	1	4	1	8	6	32	.24	.015	2	1315	13.99	8	.06	2	.49	.01	.01	1	4	6	4	2	7.85	40.80
9742	1	49	8	98	.1	1796	64	877	9.91	6	5	ND	2	22	1	2	2	77	.74	.037	4	1736	5.57	31	.34	4	1.46	.02	.05	1	2	7	7	3	9.71	43.70
9743	1	60	8	85	.1	535	38	832	6.98	11	5	ND	1	29	1	2	2	83	.98	.053	8	817	4.24	39	.52	2	1.86	.02	.05	1	1	2	3	2	9.00	28.80
STD C/FA-5I	18	57	41	132	7.4	68	28	926	3.92	39	16	8	37	50	19	17	21	57	.48	.088	37	60	.88	177	.08	37	1.85	.06	.14	13	105	97	100	21	-	-

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	AUAA PPB	PTAA PPB	PDAA PPB	PHBA PPB
6015	2	43	13	104	.2	656	38	955	5.29	36	5	ND	1	17	1	2	2	71	.40	.051	8	841	5.07	65	.16	9	1.91	.01	.08	1	3	3	3	2
6016	2	39	6	94	.1	671	35	740	5.36	27	5	ND	1	16	1	8	3	63	.40	.040	6	1089	6.46	50	.15	12	1.64	.01	.07	1	11	3	2	2
6017	2	32	6	74	.1	826	43	728	5.22	47	5	ND	1	12	1	6	6	56	.34	.032	5	1246	9.43	38	.12	23	1.39	.01	.06	1	16	3	3	2
6018	2	32	7	78	.1	813	41	717	5.08	56	5	ND	1	11	1	6	5	55	.33	.030	4	1243	9.38	38	.11	22	1.42	.01	.05	2	7	3	3	2
6020	2	29	3	68	.1	910	42	697	4.86	54	5	ND	1	11	1	3	7	52	.30	.027	3	1225	9.99	38	.10	22	1.37	.01	.06	1	8	3	4	2
6021	2	35	5	72	.1	848	41	718	5.56	51	5	ND	1	14	1	6	3	58	.44	.037	6	1332	8.26	49	.16	18	1.46	.01	.09	2	14	3	2	2
6023	1	10	4	57	.1	259	17	437	2.90	8	5	ND	1	22	1	2	2	46	.44	.045	5	418	3.48	66	.14	6	1.32	.03	.06	2	2	2	2	2
6024	2	12	4	60	.1	408	22	452	3.46	10	5	ND	1	20	1	2	2	45	.39	.036	5	558	5.45	61	.12	8	1.21	.02	.05	1	2	2	2	2
6025	1	11	4	52	.1	356	21	648	3.46	11	5	ND	1	21	1	2	2	46	.43	.032	4	534	4.27	50	.13	7	1.14	.02	.05	1	3	2	2	2
6026	2	17	5	67	.2	437	25	810	4.14	17	5	ND	2	20	1	2	2	55	.49	.045	6	609	5.13	65	.17	8	1.43	.02	.07	1	39	2	2	2
6028	1	14	3	54	.1	417	21	694	3.38	4	5	ND	1	20	1	2	2	50	.42	.035	5	479	4.61	65	.15	6	1.28	.02	.06	1	3	2	2	2
6029	1	16	2	62	.1	438	25	929	3.85	11	5	ND	1	18	1	2	2	53	.44	.044	5	525	5.06	61	.16	6	1.38	.02	.05	1	4	2	2	2
6030	1	18	9	61	.1	488	27	1053	4.19	12	5	ND	1	17	1	2	2	54	.42	.049	5	571	5.72	67	.16	9	1.37	.02	.07	1	2	2	3	2
6031	1	16	4	60	.2	372	22	818	3.99	13	5	ND	2	21	1	2	2	55	.52	.046	6	489	4.18	59	.17	6	1.39	.02	.06	1	1	2	2	2
6032	1	16	4	61	.2	374	23	678	4.05	14	5	ND	1	23	1	2	2	55	.49	.046	7	554	4.11	59	.15	6	1.32	.02	.06	1	3	2	2	2
6035	1	14	6	56	.2	373	21	686	3.40	12	5	ND	2	20	1	2	2	47	.41	.039	6	429	4.10	62	.14	6	1.22	.02	.06	1	3	2	2	2
9725	2	15	4	52	.1	1905	78	843	5.89	65	5	ND	1	2	1	2	4	22	.09	.020	2	755	22.30	12	.01	4	.43	.01	.02	1	3	8	5	2
9726	2	15	7	59	.1	1775	68	687	5.59	66	5	ND	1	3	1	2	6	23	.12	.032	2	785	20.81	13	.01	7	.50	.01	.03	1	4	8	6	2
9728	1	18	8	63	.1	1423	60	665	6.15	102	5	ND	1	4	1	2	9	39	.19	.045	2	1310	16.50	17	.02	7	.84	.01	.03	1	5	5	4	2
9729	2	15	9	70	.1	1550	79	940	6.29	77	5	ND	1	2	1	2	7	35	.13	.033	2	1424	19.13	15	.01	7	.66	.01	.02	1	3	6	5	2
9731	2	17	5	71	.1	1652	89	1337	6.43	98	5	ND	1	3	1	2	7	36	.14	.039	2	1358	19.23	21	.01	8	.75	.01	.02	1	6	5	4	2
9735	1	15	9	62	.1	1407	69	860	6.42	76	5	ND	1	3	1	2	9	36	.17	.039	2	1522	18.60	15	.01	8	.70	.01	.03	1	3	6	5	2
9738	1	20	7	79	.1	1609	79	1075	6.16	84	5	ND	1	3	1	2	7	35	.16	.050	2	1330	17.91	21	.01	10	.76	.01	.03	1	8	6	6	2
9740	2	20	11	67	.1	1795	73	1312	5.25	136	5	ND	1	2	1	2	7	35	.10	.036	2	1343	19.55	18	.01	15	.65	.01	.02	1	12	6	6	2
9745	1	19	4	62	.1	1065	52	834	5.27	29	5	ND	1	6	1	2	7	44	.25	.037	2	1418	11.61	25	.05	11	1.16	.01	.04	1	2	5	4	2
9746	1	24	2	56	.1	876	47	743	4.87	15	5	ND	1	24	1	5	7	54	.48	.029	2	1594	10.72	15	.04	7	1.56	.01	.02	1	1	5	3	2
9747	1	23	4	65	.1	947	59	840	5.53	12	5	ND	1	7	1	5	9	60	.27	.022	2	1138	8.40	35	.10	9	1.37	.01	.03	1	3	4	2	2
9756	1	49	7	104	.2	1934	75	1042	6.61	3	5	ND	1	8	1	2	8	50	.21	.110	5	1216	13.64	72	.02	9	2.00	.01	.09	1	7	4	6	2
9757	2	34	8	82	.2	1510	83	1722	6.59	537	5	ND	1	8	1	25	6	64	.55	.110	2	1068	10.65	33	.01	13	1.32	.01	.06	1	396	5	6	2
9769	2	47	11	128	.4	755	31	772	4.61	25	5	ND	1	21	1	4	2	66	.53	.069	14	729	4.23	70	.12	9	2.04	.01	.08	1	4	3	5	2
9771	2	45	7	95	.1	589	38	842	5.11	19	5	ND	1	15	1	2	2	69	.37	.054	5	737	4.08	50	.19	7	1.91	.01	.07	1	6	3	2	2
9774	3	34	14	121	.1	838	56	1301	7.30	70	5	ND	1	15	1	2	2	64	.15	.091	6	701	2.14	114	.11	2	1.68	.01	.06	1	4	4	2	2
9776	2	31	6	84	.1	809	42	746	4.94	118	5	ND	2	13	1	9	7	57	.37	.033	4	1160	8.67	36	.12	30	1.43	.01	.07	1	5	4	3	2
9779	1	21	8	70	.1	1701	75	939	5.97	254	5	ND	2	3	1	2	9	40	.16	.025	2	1591	18.68	21	.01	18	.85	.01	.04	1	298	7	6	2
9781	2	46	5	86	.1	948	44	843	5.04	66	5	ND	1	9	1	8	9	66	.39	.037	4	1029	11.03	37	.12	23	1.62	.01	.05	1	5	5	5	2
9782	1	24	5	63	.1	1368	91	1228	6.46	180	5	ND	1	6	1	9	8	45	.15	.049	2	1227	15.41	35	.01	14	1.07	.01	.02	1	218	5	4	2
STD C/FA-5X	20	64	44	134	7.2	72	29	1025	4.03	44	24	8	40	55	20	15	22	61	.53	.102	41	64	.89	184	.08	36	1.83	.06	.14	13	105	97	102	17

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	PT** PPB	PD** PPB	RH** PPB
SWH-1	1	27	11	71	.2	1174	49	697	5.86	8	5	ND	2	12	1	2	5	59	.43	.039	4	849	8.72	37	.22	9	1.34	.01	.06	1	1	3	2	3
SWH-2	1	29	7	67	.2	1345	47	674	5.64	11	8	ND	1	10	1	2	4	56	.37	.038	3	798	8.85	31	.18	8	1.30	.01	.06	1	2	4	2	3
SWH-3	1	25	9	62	.1	1086	47	669	5.44	8	5	ND	1	10	1	2	2	55	.38	.037	3	737	9.28	33	.18	7	1.29	.01	.05	1	1	3	3	3
SWH-4	1	26	9	61	.2	1153	47	658	5.29	9	8	ND	1	8	1	2	3	53	.34	.036	3	705	8.96	30	.15	8	1.26	.01	.06	1	5	4	3	3
SWH-5	1	28	10	61	.1	1108	44	646	5.26	4	7	ND	2	9	1	2	5	54	.38	.036	3	718	8.81	31	.18	7	1.28	.01	.07	1	432	4	3	3
SWH-6	1	31	8	64	.3	1499	51	684	6.06	5	5	ND	2	9	1	2	2	55	.35	.035	3	947	8.36	29	.17	7	1.20	.01	.04	1	3	6	3	3
SWH-7	1	27	8	60	.2	1044	46	662	5.34	5	5	ND	1	9	1	2	5	54	.38	.037	3	748	9.41	29	.17	8	1.26	.01	.06	1	3	3	3	2
SWH-8	1	30	9	64	.2	1010	44	656	5.39	7	6	ND	1	9	1	2	2	54	.36	.038	4	768	8.63	31	.17	7	1.28	.01	.06	1	1	3	2	2
SWH-9	1	33	5	69	.2	1304	48	650	5.59	7	8	ND	1	9	1	2	6	53	.37	.036	3	787	9.21	28	.16	8	1.19	.01	.07	1	2	5	2	2
SWH-10	1	30	7	54	.1	1115	46	635	5.09	7	5	ND	1	10	1	2	6	49	.41	.034	2	696	10.40	26	.15	9	1.14	.01	.05	1	1	3	2	3
SWH-11	1	30	4	77	.2	799	43	772	5.81	5	5	ND	2	12	1	2	4	69	.51	.049	4	788	7.34	39	.26	7	1.65	.01	.07	1	1	2	2	2
SWH-12	1	36	4	74	.2	902	42	751	5.53	14	5	ND	2	11	1	2	2	67	.46	.057	4	645	7.42	44	.22	8	1.68	.01	.10	1	1	3	2	2
SWH-13	1	34	3	75	.2	768	39	768	5.51	7	5	ND	2	12	1	4	2	71	.49	.062	5	589	6.62	46	.24	6	1.77	.01	.09	1	1	3	2	3
SWH-14	1	46	13	80	.2	1722	66	816	5.64	9	5	ND	2	8	1	2	4	47	.18	.081	4	996	11.69	53	.03	9	1.80	.01	.06	1	4	4	6	3
SWH-15	1	31	13	84	.1	1371	49	614	6.03	17	5	ND	1	8	1	2	5	48	.16	.073	4	1099	9.73	54	.03	8	1.50	.01	.06	1	1	4	4	3
SWH-16	1	46	5	85	.1	634	36	717	5.64	96	5	ND	2	12	1	4	2	56	.33	.044	7	785	4.66	45	.13	4	1.64	.01	.06	1	48	4	3	2
SWH-17	1	52	14	99	.1	719	40	883	6.57	141	5	ND	3	12	1	8	2	59	.33	.064	11	848	5.38	54	.11	5	1.74	.01	.10	1	97	4	2	2
SWH-18	1	80	7	126	.2	449	40	942	5.19	209	5	ND	3	43	1	8	2	50	.88	.096	13	250	8.97	66	.01	5	.93	.01	.09	1	747	3	5	2
9734	1	18	4	54	.1	1696	90	872	6.20	10	6	ND	2	2	1	2	5	35	.09	.921	2	1212	18.39	15	.01	8	.75	.01	.02	2	2	7	6	3
9766	1	19	2	66	.1	2591	76	733	6.36	9	5	ND	1	3	1	2	4	19	.06	.032	2	849	19.20	21	.01	11	.43	.01	.02	2	3	5	4	3
9783	1	14	12	147	.1	1133	93	1299	9.01	53	5	ND	1	5	1	2	8	70	.12	.089	2	1903	10.69	55	.03	7	1.26	.01	.02	1	15	2	2	2
STD C/FA-SI	19	59	41	132	7.6	72	29	956	4.03	43	15	7	39	51	19	16	19	59	.50	.090	39	60	.94	181	.08	33	1.75	.06	.14	13	97	100	97	20

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	PT** PPB	PD** PPB	RH** PPB
SS-1	1	20	3	55	.1	1733	82	852	5.0	19	5	ND	1	2	1	2	2	37	.19	.017	2	1479	16.26	17	.02	21	.91	.01	.02	1	5	6	5	2
SS-2	1	11	3	45	.1	1528	77	905	5.8/	1c	5	ND	1	2	1	2	[illegible]	26	.09	.014	2	1195	15.25	22	.01	17	.53	.01	.01	1	3	6	4	2
SS-3	1	17	5	62	.1	1607	90	1053	6.01	17	5	ND	1	2	1	2	[illegible]	31	.07	.030	2	1491	15.69	22	.01	13	.70	.01	.03	1	1	6	4	2
SS-4	1	17	2	74	.1	1724	109	1271	6.34	13	5	ND	1	2	1	2	6	34	.06	.028	2	1503	16.42	29	.01	13	.77	.01	.01	1	1	3	2	2
SS-5	1	19	7	72	.1	1276	87	1102	5.96	11	5	ND	1	4	1	2	6	37	.12	.033	2	1358	12.21	33	.02	12	.97	.01	.03	1	1	5	4	2
SS-6	1	17	4	65	.1	1198	94	1193	6.59	14	5	ND	1	3	1	2	4	42	.20	.040	2	1395	12.99	25	.02	12	1.01	.01	.05	1	1	5	4	2
SS-7	1	30	7	74	.1	1129	39	569	5.59	14	5	ND	1	7	1	2	5	44	.18	.087	3	1137	10.63	40	.03	10	1.51	.01	.02	1	2	3	4	2
SS-8	1	20	[illegible]	67	.1	1286	79	1020	6.15	19	5	ND	1	5	1	2	5	41	.14	.045	2	1424	12.11	35	.02	14	1.08	.01	.02	1	2	5	5	2
SS-9	1	27	[illegible]	77	.2	1184	34	528	3.41	12	5	ND	1	9	1	2	2	27	.21	.114	4	710	7.17	49	.02	10	1.27	.01	.09	1	2	2	3	2
SS-10	1	46	5	96	.1	1026	59	736	5.19	118	5	ND	2	6	1	5	2	48	.21	.037	4	724	9.76	62	.09	12	1.63	.01	.11	1	27	3	4	2
SS-11	2	45	5	96	.1	591	38	834	5.42	137	5	ND	2	13	1	2	2	54	.38	.055	9	709	5.37	50	.10	12	1.75	.01	.06	1	77	4	4	2
SS-12	1	44	4	99	.2	889	41	935	5.39	146	5	ND	2	14	1	5	2	53	.45	.064	9	768	5.87	66	.08	11	1.83	.01	.07	1	129	4	6	2
SS-13	2	44	4	99	.1	519	34	781	5.15	126	5	ND	2	12	1	3	2	51	.34	.055	9	578	4.94	44	.10	10	1.68	.01	.07	1	74	3	3	2
SS-14	1	48	4	100	.2	609	36	965	5.21	178	5	ND	3	13	1	6	2	48	.43	.077	13	593	4.94	57	.07	9	1.54	.01	.08	1	135	5	6	2
SS-15	1	14	5	46	.1	1571	76	1044	4.99	286	5	ND	1	7	1	7	3	17	.23	.011	2	935	9.84	26	.01	7	.47	.01	.01	1	112	5	3	2
SWI-1	1	26	2	61	.2	995	49	830	5.28	12	5	ND	1	9	1	2	3	50	.38	.029	2	619	8.31	26	.16	8	1.29	.01	.04	1	3	4	2	2
SWI-2	1	25	2	62	.1	955	52	967	5.30	17	5	ND	1	8	1	2	2	52	.37	.031	2	696	8.88	27	.17	8	1.33	.01	.04	1	2	4	3	2
SWI-3	1	25	5	70	.1	971	51	980	[illegible]	14	5	ND	2	8	1	2	2	49	.35	.032	2	622	8.89	30	.15	8	1.27	.01	.04	1	4	4	3	2
SWI-4	1	26	2	72	.1	[illegible]	[illegible]	941	4.84	16	5	ND	1	7	1	2	5	46	.28	.035	2	623	8.56	35	.12	8	1.18	.01	.04	1	1	5	3	2
SWI-5	1	29	4	86	.2	641	33	672	4.14	10	5	ND	1	13	1	2	2	51	.21	.044	6	497	3.99	66	.10	5	1.55	.01	.04	1	2	2	2	2
SWI-6	1	32	2	72	.2	881	47	819	5.28	11	5	ND	1	8	1	4	2	54	.38	.039	3	646	7.98	42	.16	8	1.41	.01	.06	1	1	3	2	2
SWI-7	1	28	7	[illegible]	.1	967	49	768	5.10	16	5	ND	2	8	1	2	2	50	.32	.037	3	649	9.01	32	.14	10	1.27	.01	.05	1	2	3	2	2
SWI-8	1	26	5	[illegible]	.1	929	46	772	4.80	11	5	ND	1	9	1	3	2	48	.28	.043	4	669	7.29	47	.12	7	1.36	.01	.04	1	1	4	3	2
SWI-9	1	33	6	73	.1	1030	49	730	5.27	10	5	ND	1	10	1	2	2	50	.33	.045	3	628	8.64	34	.15	7	1.30	.01	.05	1	1	4	2	2
SWI-10	1	30	3	69	.1	1066	54	828	5.03	12	7	ND	1	7	1	3	3	50	.36	.033	2	595	9.75	30	.13	9	1.20	.01	.06	1	2	6	4	2
SWI-11	1	32	3	69	.1	864	51	884	5.05	13	5	ND	1	7	1	2	2	54	.34	.039	3	622	8.51	31	.15	10	1.35	.01	.05	1	1	4	2	2
SWI-12	1	35	2	90	.1	725	42	960	5.21	15	5	ND	2	10	1	2	2		.42	.063	5	550	6.26	45	.18	6	1.70	.01	.09	2	2	3	2	2
SWI-13	1	28	2	115	.1	1526	46	773	4.48	20	5	ND	1	22	1	2	2	35	.66	.103	7	705	5.40	97	.03	19	1.62	.01	.04	1	2	2	3	2
SWI-14	1	28	7	79	.1	1113	56	811	5.28	9	5	ND	1	10	1	2	4	45	.27	.051	4	820	7.98	53	.06	11	1.29	.01	.05	1	1	4	3	2
SWI-15	1	25	7	63	.1	1073	65	949	5.55	16	5	ND	1	5	1	2	4	45	.25	.025	2	829	10.16	31	.12	14	1.09	.01	.02	1	1	3	2	2
SWI-16	1	48	9	87	.1	653	41	903	5.38	15	5	ND	1	10	1	2	2	69	.43	.068	5	559	6.08	47	.19	6	1.85	.01	.09	1	1	3	2	2
SWI-17	1	48	13	96	.1	595	40	965	5.67	14	5	ND	2	13	1	3	2	77	.49	.083	6	649	5.22	59	.21	6	2.02	.01	.15	1	1	2	2	2
SWI-18	1	49	7	108	.1	654	38	704	4.86	8	5	ND	1	19	1	2	2	71	.59	.060	6	581	3.90	94	.18	6	3.01	.01	.10		4	2	2	2
SWI-19	1	42	7	101	.1	698	36	658	5.07	5	5	ND	1	18	1	2	2	71	.67	.053	7	583	4.12	70	.26	4	1.92	.01	.09	1	4	2	2	2
SWI-20	1	45	9	103	.1	559	42	1085	5.93	13	5	ND	2	12	1	2	2	84	.50	.085	6	519	5.26	56	.22	4	2.20	.01	.14	1	1	2	2	2
SWI-21	1	54	2	132	.3	355	35	1134	6.97	14	5	ND	3	21	1	2	2	102	.68	.133	9	245	2.91	119	.29	2	2.61	.01	.38	1	2	2	2	2
STD C/FA-SI	19	59	41	133	7.1	72	29	954	4.13	43	14	7	38	51	19	15	19	59	.51	.090	38	59	.06	181	.09	33	1.79	.06	.16	14	105	97	102	21

ACME ANALYTICAL LABORATORIES
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 DATA LINE 251-1011
DATE RECEIVED: SEPT 17 1987
DATE REPORT MAILED: Oct. 5/87.

GEOCHEMICAL ICP ANALYSIS

.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 CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-5 SOIL P6-SILT P7-9 ROCK AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: ..... DEAN TOYE, CERTIFIED B.C. ASSAYER

LACANA MINING File # 87-4285 Page 1

High in Ni & Cr

SAMPLE#	AS PPM	AU* PPB
7201	234	40
7202	797	52
7206	25	2
7207	17	1
7208	117	1
7209	136	2
7210	32	1
7211	48	2
7212	39	6
7213	11	1
7214	12	1
7215	120	2
7216	7	1
7217	6	1
7218	65	31
7219	39	1
7220	138	1
7221	26	1
7222	196	2
7223	49	1
7224	2	1
7225	14	1
7226	6	1
7227	7	1
7228	57	142
7229	72	143
7230	156	120
7231	260	134
7235	8	2
7238	545	560
7239	81	1
7240	3	1
7241	419	10
7242	496	47
7243	8	1
7244	10	1
STD C/AU-S	36	48

SAMPLE#	AS PPM	AU* PPB
7245	58	5
7246	13	2
7247	11	7
7248	37	1
7250	60	1
7251	16	1
7252	13	1
7253	9	2
7254	12	2
7255	11	1
7256	9	2
7257	127	1
7258	6	4
7260	14	1
7263	12	3
7264	79	25
7265	53	13
7266	284	23
7267	477	56
7268	12821	19900
7269	83	89
7270	19	7
7271	60	8
7272	220	78
7273	211	22
7274	7	4
7275	17	19
7277	897	980
7279	1758	6130
7281	98	80
7282	158	121
7283	61	27
7284	110	58
7285	55	96
7287	65	87
7289	142	390
STD C/AU-S	39	48

SAMPLE#	AS PPM	AU* PPB
7290	85	68
7292	49	34
7293	157	74
7294	104	11
7295	17	5
7296	8	2
7297	28	7
7298	145	6
7299	73	11
7300	193	154
8901	690	1120
8902	14	9
8903	6	3
8904	6	2
8905	7	2
8906	8	3
8907	11	1
8908	12	2
8909	8	8
8910	3	12
8913	426	240
8914	367	2750
8915	2157	4880
8916	1371	1020
8917	100	24
8918	175	87
8919	72	86
8925	75	52
8926	803	210
8927	1512	370
8928	3437	2790
8932	48	28
8933	176	24
8934	238	189
8935	111	30
8936	466	64
STD C/AU-S	35	48

SAMPLE#	AS PPM	AU* PPB
8937	31	8
8938	26	16
8939	34	6
8945	10	13
8946	8	1
8948	1240	380
8949	51	14
8950	27	9
8951	23	13
8952	147	98
8953	4174	8240
8954	207	63
8955	56	8
8956	556	26
8957	131	4
8958	27	6
8959	168	177
8960	28	10
8961	279	9
8962	49	2
8963	371	1
8964	88	6
8965	71	1
8966	41	2
8967	40	1
8968	62	1
8969	33	12
8970	5	3
8972	13	1
8973	243	2
8974	71	1
8975	13	1
8976	6	4
8977	7	1
8978	5	1
8980	143	211
STD C/AU-S	38	50

SAMPLE#	AS PPM	AU* PPB
8983	228	295
8984	709	3690
8985	628	1050

SAMPLE#	AS PPM	AU* PPB
7233	55	11
7234	103	167
7262	284	350
7276	52	41
8940	829	3
STD C/AU-S	39	51

SAMPLE#	AS PPM	AU* PPB
T 7203	220	16
T 7204	5	4
T 7205	13	2
T 7232	5	5
T 7249	4	1
T 7259	46	2
T 7261	3	3
T 7278	368	1020
T 7280	5	4
T 7286	7	2
T 7288	45	1
T 7291	532	7
S 8929	8	1
S 8930	17	3
S 8931	60	4
S 8941	54	1
S 8942	2	6
S 8943	31	3
S 8944	106	7
S 8979	4	2
STD C/AU-R	39	515

SAMPLE#	PB PPM	AS PPM	SB PPM	AU* PPB
S 8911	9	34	5	4
S 8912	3	1693	25	3780
S 8920	4	1021	36	260
S 8921	2	399	16648	178
S 8922	5	49	147	7
S 8923	2	13	104	5
S 8924	2	164	16	23
S 8981	2	44	10	1
S 8982	2	48	6	1
S 8986	2	195	55	112
STD C/AU-R	36	37	18	500

SAMPLE#	PT** PPB
T 7236	10
T 7237	8

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

DATE RECEIVED: NOV 6 1987
DATE REPORT MAILED: Nov. 20/87...

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEC. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-2 ROCK P3-SOIL/SILT AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: ..D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

LACANA MINING PROJECT-S.W. File # 87-5528 Page 1

SAMPLE#	AS PPM	AU* PPB
E 60501	3314	3620
E 60502	96	16
E 60503	1545	15
E 60504	1226	34
E 60505	32	2
E 60506	425	390
E 60507	427	385
E 60508	336	105
E 60509	197	5
E 60510	5756	3260
E 60511	2940	610
E 60512	3050	1220
E 60513	3029	810
E 60514	110	41
E 60515	223	74
G 6584	219	18
G 6585	493	102
G 6586	595	132
G 6587	414	505
G 6588	473	630
G 6589	28	1
G 6590	5	2
G 6591	13	1
G 6592	1074	350
G 6593	368	48
G 6594	812	1430
G 6595	144	24
G 6596	1537	670
G 6597	693	650
G 6598	708	330
G 6599	1793	590
G 6600	449	260
G 6801	2988	3560
G 6802	973	555
G 6803	2187	1420
G 6804	3152	1050
STD C/AU-R	38	480

SAMPLE#	AS PPM	AU* PPB
G 6805	1442	450
G 6806	812	320
G 6807	16	2
G 6808	75	64
G 6809	71	36
G 6810	502	210
G 6811	208	6
PW-2	254	1
PW-3	9	1
RR-2	8	1
RR-3	2	1
STD C/AU-R	41	485

SAMPLE#	AS PPM	AU* PPB
52+10N 48+75E	72	46
52+03N 48+75E	64	52
52+00N 48+50E	44	21
51+12N 48+65E	140	81
51+10N 48+56E	1709	3100
51+10N 48+60E	2405	8350
50+84N 48+55E	391	370
STD C/AU-S	38	52
PW-1 P	20	2
RR-1 P	10	1
RR-4 P	8	28
UD-1 P	75	27
UD-2 P	70	31
UD-3 P	1351	92
UD-4 P	790	11
UD-5 P	611	330
UD-6 P	1974	2220
UD-7 P	7937	10010
UD-8 P	1761	169
UD-9 P	1629	580
UD-10 P	2124	1400
UD-11 P	2750	2460
UD-12 P	434	240
UD-13 P	337	172
UD-14 P	327	47
UD-15 P	242	18
UD-16 P	317	77
UD-17 P	26	8
UD-18 P	12	6
UD-19 P	103	1
UD-20 P	347	63
UD-21 P	89	12

P - 20 MESH, PULVERIZED

APPENDIX V

STATEMENT OF COSTS

MID CLAIM (costs incurred during July)

Helicopter	
1.5 hours at $495/hour	742.50
39.5 gal. fuel at $2.10/gal.	82.95
oil at 1.5 hours at $1.00/hour	1.50
	826.95
Wages	
1 man at $117/day for 1 day	117.00
1 man at $162.50/day for 1 day	162.50
	279.50
Sample Analysis	
10 silts analysed for 30 elements by ICP and Au, Pt. Pd, Rh by fire assay and AA at $16.75/sample	167.50
3 rocks analysed for 30 elements by ICP and Au, Pt, Pd, Rh by fire assay and AA at $19.00/sample	57.00
2 heavy mineral samples analysed for 30 elements by ICP and Au, Pt, Pd, Rh by fire assay and AA at $28.00/sample	56.00
	280.50
Typing, drafting and reproduction	102.00
Transport, camp costs etc. (shared costs with Van 1 and Van 2 expenses)	1,913.19
TOTAL	$3,402.14

STATEMENT OF COSTS

VAN 1 and VAN 2 CLAIMS (costs incurred in July)

Helicopter		
6.9 hours at $495/hour		3,415.50
163.7 gal. of fuel at $2.10/gal.		343.77
oil at 6.9 hours at $1.00/hour		6.90
		3,766.17
Wages		
2 men for 7 days at $195.00/day		2,730.00
1 man for 6 days at $162.50/day		975.00
1 man for 6 days at $117.00/day		702.00
		4,407.00
Sample Analysis		
190 rocks analysed for 30 elements by ICP and Au, Pt, Pd, Rh by fire assay and AA at $19.00/sample		3,610.00
4 soils analysed for 30 elements by ICP and Au, Pt, Pd, Rh by fire assay and AA at $16.75/sample		67.00
73 silts analysed for 30 elements by ICP and Au, Pt, Pd, Rh by fire assay and AA at $16.75/sample		1,222.75
4 heavy mineral samples analysed for 30 elements by ICP and Au, Pt, Pd, Rh by fire assay and AA at $28.00/sample		112.00
1 rock analysed for mercury		2.25
		5,014.00
Transport, camp costs etc. (shared costs with Mid Claim)		5,739.58
	TOTAL	$18,926.75

STATEMENT OF COSTS

VAN 1, VAN 2 and MID CLAIMS (shared costs incurred in July)

Helicopter		
4.5 hours at $495/hour		2,227.50
103.5 gal. of fuel at $2.10/hour		217.35
oil at 4.5 hours at $1.00/hour		4.50
		2,449.35
Wages		
1 man for 3 days at $117.00/day		351.00
1 man for 3 days at $162.50/day		487.50
2 men for 3 days at $195.00/day		1,170.00
		2.008.50
Vehicles		
1 truck for 10 days at $35.00/day		350.00
1 vehicle for 10 days at:	$179/week	179.00
	32/day	64.00
	12/hour	24.00
	6% tax	16.02
	insurance	90.00
	gas	5.00
		378.02
Gas		62.92
Airfare		578.80
Freight for samples		168.90
Taxi		38.00
Equipment		489.88
Toll Charges (Coquihalla)		8.00
Groceries		416.06
Meals		374.35

STATEMENT OF COSTS

Shared costs continued

Accommodation		
2 rooms for 3 nights at $37.80/night		226.80
1 room for 3 nights at $44.28/night		132.84
1 room for 1 night at $38.88/night		38.88
		398.52
Telephone		92.86
Maps, Airphotos		131.01
Reproduction		57.60
	TOTAL	$7,652.77

STATEMENT OF COSTS

KLONE 1 CLAIM (costs incurred in September)

Helicopter	
6.4 hours at $495/hour	3,168.00
2.0 hours at $465/hour	930.00
156.4 gal. of fuel at $2.10/gal.	328.44
40.0 gal. of fuel at $2.00/gal.	80.00
oil at 6.8 hours at $1.00/hour	6.80
oil at 1.6 hours at $2.00/hour	3.20
	4,516.44
Wages	
1 man for 11 days at $117.00/day	1,287.00
1 man for 11 days at $195.00/day	2,145.00
	3,432.00
Sample Analysis	
2 rocks analysed for Pt by fire assay and AA at $8.75/sample	17.50
10 rocks analysed for Pb, Sb, As, Au by AA at $11.00/sample	110.00
5 silt samples analysed for Au and As by AA at $8.25/sample	41.25
147 soil samples analysed for Au and As by AA at $8.25/sample	1,212.75
1 soil sample analysed for Au and As by AA at $8.25/sample plus $5.00 surcharge	13.25
30 rocks analysed for Au and As by AA at $10.50/sample	315.00
	1,709.75
Freight charge for samples	41.80
Airfare	639.30
Taxi	40.00

STATEMENT OF COSTS - KLONE 1 CONTINUED

Vehicle		
12 days at $26.95/day		323.40
1215 km at $0.15/km		182.25
15% discount		-75.85
6% tax		25.79
insurance at $10.00/day		120.00
		575.59
Accommodation		
1 room at $32.40/night		32.40
2 rooms at $37.80/night for 4 nights		302.40
		334.80
Meals		141.35
Groceries		316.88
Equipment		110.40
Gas		79.10
Telephone		13.46
	TOTAL	$11,950.87

STATEMENT OF COSTS

KLONE 2 CLAIM (Costs incurred in October)

Helicopter	
6.1 hours at $505/hour	3,080.50
115.3 gal. of fuel at $2.10/gal.	242.13
25 gal. of fuel at $3.50/gal.	87.50
oil at 6.1 hours at $1.00/hour	6.10
	3,416.23
Wages	
1 man for 8 days at $117.00/day	936.00
1 man for 8 days at $162.50/day	1,300.00
2 men for 8 days at $195.00/day	3,120.00
	5,356.00
Sample Analysis	
45 rocks analysed for Au and As by AA at $10.50/sample	472.50
1 silt sample analysed for Au and As by AA at $8.25/sample	8.25
28 soil samples analysed for Au and As by AA at $8.25/sample	231.00
	711.75
Vehicles	
1 vehicle for 8 days at $35.80/day	286.40
1 vehicle for 8 days at $35.00/day	280.00
	566.40
Gas	95.00
Parking and Toll Charges (Coquihalla)	21.50
Airfare	193.20

STATEMENT OF COSTS - KLONE 2 CONTINUED

Accommodation		
1 room at $44.28/night for 2 nights		88.56
2 rooms at $37.80/night for 2 nights		151.20
1 room at $32.40/night		32.40
		272.16
Meals		237.85
Groceries		450.01
Equipment		421.33
Reproduction		150.00
Telephone		13.34
Drafting Supplies		33.13
Drafting		
7.5 hours at $20.00/hour		150.00
Typing		
4 hours at $20.00/hour		80.00
Report Writing		
3 days at $195.00/day		585.00
	TOTAL	$12,752.90

APPENDIX VI

APPENDIX VI

STATEMENT OF QUALIFICATIONS

1. I am a graduate of the University of British Columbia having graduated in 1969 with a Bachelor of Science in Geology.

2. I have practiced my profession since 1969 in mineral exploration, oil and gas exploration and coal exploration.

3. I have a direct interest in the VAN 1, VAN 2, KLONE 1, KLONE 2, MID and ONE-EYE 1 Claims which are presently held under option agreement by Lacana Mining Corporation.

Ursula G. Mowat

DATED THIS 14 DAY OF March, 1988 AT VANCOUVER, B.C.

VAN DECAR CREEK

KLONE 8

ONE EYE 1

KLONE 6

KLONE 7

KLONE 5

KLONE 1

VAN 2

VAN 1

KLONE 2

mount sidney williams

KLONE 4

KLONE 3

MIDDLE RIVER

BAPTISTE CREEK

MID

SIDNEY CREEK

N

legal corner post

0 1000 metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,173

LACANA MINING CORPORATION

CLAIM MAP

MOUNT SIDNEY WILLIAMS

PREPARED	DATE	SCALE	PROJECT	MAP SHEET	FIGURE
	Jan/88	1:25,000	6301	93-K-14W	3

125° 24'

54° 54'

VAN DECAR CREEK

granitic → X

pillow lava

basalt

STIBNITE SHOWING

basalt

XAb

XAb

schist

hz

volcanics

hz

hz

schist

chz

chz

X

X X

X

norite

norite

hz

hz

schist

Q X XQ

XQ

schist

54° 54'

125° 24'

N

0 500

metres

LEGEND

- hz — harzburgite
- chz — chromite rich, black harzburgite and dunite
- olivine enriched harzburgite
- listwanite
- J — jade serpentine alteration
- chromite, massive
- chromite, stockwork
- X Ab — asbestos
- XQ — quartz vein
- fault

GEOLOGICAL BRANCH
ASSESSMENT REPORT

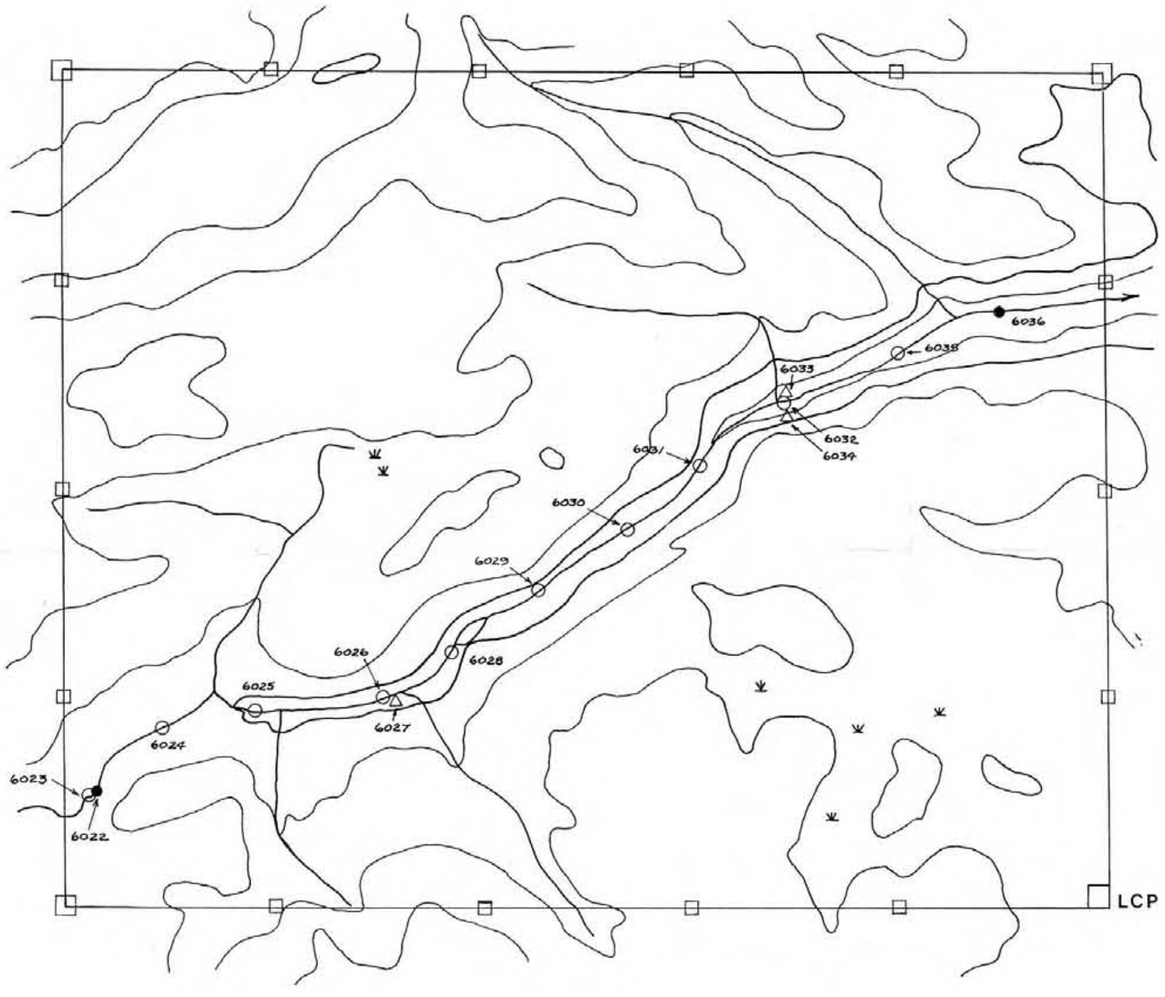
17,173

LACANA MINING CORPORATION

PROPERTY GEOLOGY

mount sidney williams

PREPARED	DATE	SCALE	PROJECT	MAP SHEET	FIGURE
	Jan/88	1:15,000	6301	93-K-NW	5



△ rock sample
○ silt sample
● heavy mineral sample
6036 sample number
corner post
location post
swamp

N

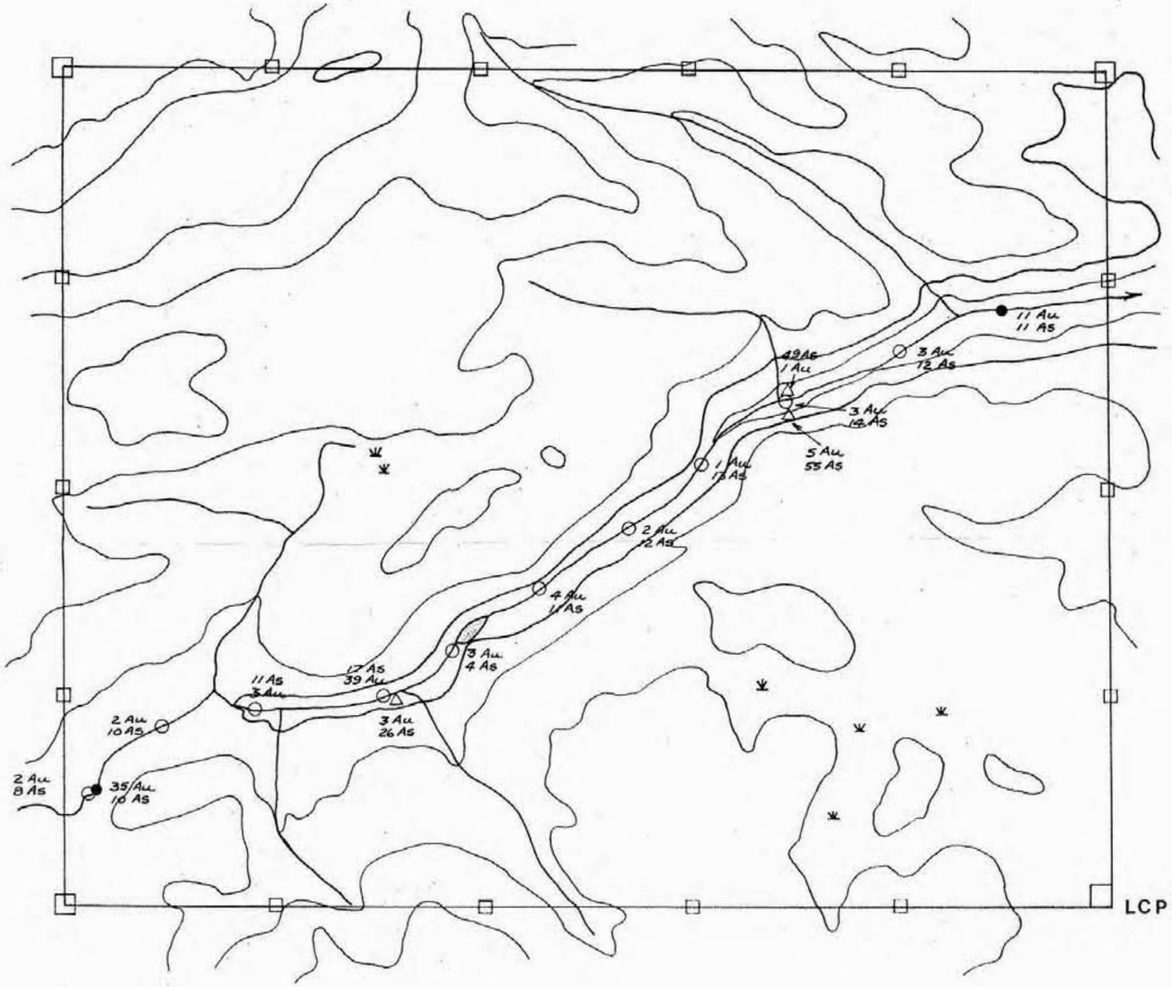
0 500
metres

LACANA MINING CORPORATION

MID CLAIM PHASE ONE

sample locations

PREPARED	DATE	SCALE	PROJECT	MAP SHEET	FIGURE
	Jan/88	1:10,000	6301	93-K-14W	6A



△ rock sample

○ silt sample

● heavy mineral sample

corner post

location post

swamp

N

0 500

metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,173

LACANA MINING CORPORATION

MID CLAIM PHASE ONE

gold (ppb) and
arsenic (ppm)

PREPARED	DATE	SCALE	PROJECT	MAP SHEET	FIGURE
	Jan/88	1:10,000	6301	93-K-14W	6B

△ rock sample
○ silt sample
□ soil sample
● heavy mineral sample

corner post
location post

N

0 500
metres

LCP KLONE 1

LCP VAN 2

LCP VAN 1

Compiled by:
EAGLE MAPPING SERVICES LTD.
Job No. 87-113

FROM 1974 AERIAL PHOTOGRAPHS

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,173

LACANA MINING CORPORATION

LACANA EX (1981) INC.

MT. SIDNEY WILLIAMS

PHASE ONE

SAMPLE LOCATIONS

PREPARED	DATE	SCALE	PROJECT	MAP SHEET	FIGURE
	14 Jan.1988	1:10000 20m. C.I.	6301	93-K-14W	6C

△ rock sample
○ silt sample
□ soil sample
● heavy mineral sample

⊣□ corner post
⊣▯ location post

4880 gold (ppb)
2/87 arsenic (ppm)

0 500
metres

LCP KLONE 1

LCP VAN 2

LCP VAN 1

Compiled by:
EAGLE MAPPING SERVICES LTD.
Job No. 87-113

FROM 1974 AERIAL PHOTOGRAPHS

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,173

LACANA MINING CORPORATION

LACANA EX (1981) INC.

MT. SIDNEY WILLIAMS

PHASE ONE

AU & AS

PREPARED	DATE	SCALE	PROJECT	MAP SHEET	FIGURE
	14 Jan.1988	1:10000 20m. C.I.	6301	93-K-14W	6D

LCP ONE-EYE 1

LCP KLONE 1

LCP KLONE 2

VAN 2 CLAIM LINE

VAN 1 CLAIM LINE

PW-3

PW-2

PW-1

TEARDROP LAKE

DETAIL GRID A

DETAIL GRID B

W/L 1616.0

W/L 1511.0

W/L 1599.5

Compiled By: EAGLE MAPPING SERVICES LTD. Job No. 87-113

FROM 1974 AERIAL PHOTOGRAPHS

0 250 metres

△ rock sample
○ silt sample
□ soil sample
⊢ grid / soil sample

corner post
location post

LACANA MINING CORPORATION

LACANA EX (1981) INC.

KLONE CLAIMS PHASE 2 & 3

MT. SIDNEY WILLIAMS

SAMPLE LOCATIONS

PREPARED	DATE	SCALE	PROJECT	MAP SHEET	FIGURE
	14 JAN. 1988	1:5000 10m. C.I.	6301	93-K-14W	7A

LCP ONE-EYE 1

LCP KLONE 1

VAN 2
CLAIM LINE

TEARDROP
LAKE

DETAIL
GRID A

DETAIL
GRID B

LCP KLONE 2

VAN 1
CLAIM LINE

W/L
1616.0

W/L
1517.0

W/L
1599.5

Compiled By: EAGLE MAPPING SERVICES LTD. Job No. 87-113

FROM 1974 AERIAL PHOTOGRAPHS

0 250
metres

△ rock sample
○ silt sample
□ soil sample
╞ grid / soil sample

4880 gold (ppb)
215/ arsenic (ppm)

corner post
location post

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,173

LACANA MINING CORPORATION

LACANA EX (1981) INC.

KLONE CLAIMS PHASE 2 & 3

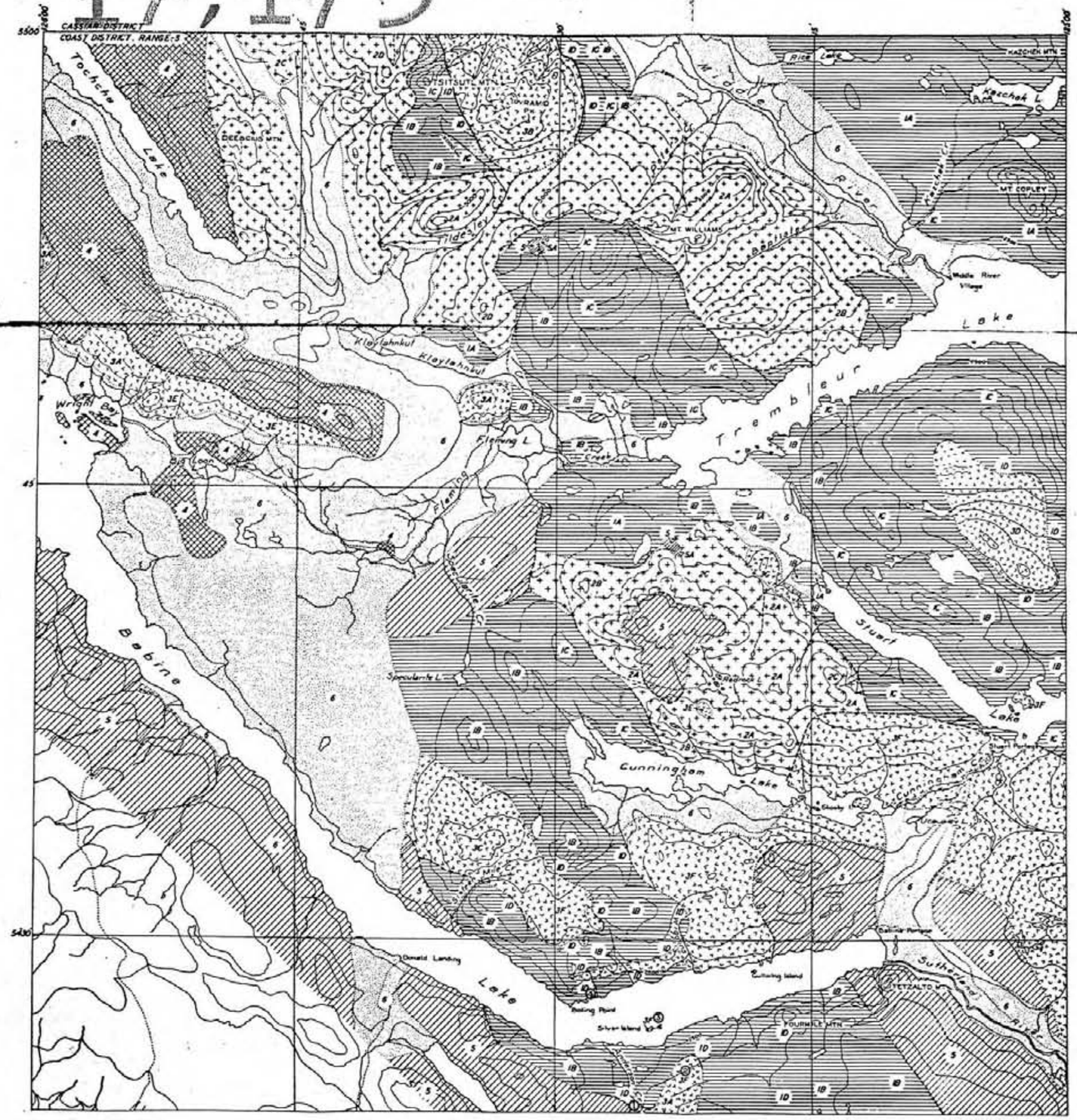
MT. SIDNEY WILLIAMS

AU & AS

PREPARED	DATE	SCALE	PROJECT	MAP SHEET	FIGURE
	14 JAN. 1988	1:5000 10m. C.I.	6301	93-K-14W	7B

FORT FRASER
NORTHWEST QUARTER
BRITISH COLUMBIA

Advance copy
Subject to revision



RECENT and PLEISTOCENE

6 — Recent alluvium and glacial drift
Calcareous tufa

TERTIARY

5 — 5A = Conglomerate
5 = Andesitic and basaltic dykes, vesicular and amygdaloidal, andesitic, basaltic, and dacitic lava flows; flow breccia and feldspar porphyry

MESOZOIC (?)

4 — Rhyolitic dykes and flows
Andesite breccia, andesites, basalts, and related porphyries

3 —
3A = Microcline granite,
3B = Albite granite,
3C = Muscovite granite,
3D = Granodiorite,
3E = Syenite,
3F = Hornblende diorite
3G = Augite diorite

2 —
2A = Peridotite, dunite, serpentine, carbonate-quartz-fuchsite rock, carbonate-talc rock
2B = Pyroxenite and serpentine,
2C = Gabbro and diabase,
2D = Amphibolite, peridotite, serpentine, and greenstone

CARBONIFEROUS

1 —
Group 3:
1A = Massive limestone, and minor amounts of argillite, chert, and andesite greenstone
Group 2:
1B = Andesite greenstone, with minor amounts of argillite, chert, and limestone
Group 1:
1C = Chert, argillite, slate, with some andesite greenstone, and minor amounts of limestone
1D = Metamorphosed equivalent of groups 1 and 2, gneiss, schist, foliated greenstone, banded foliated sediments

④ — Mining Properties
1 - Taltapin Group
2 - Radio Gold Mines Ltd.
3 - Silver Island Mining Co.
4 - Boling Property

Geological boundary, defined, approximate, assumed

Note:
Geographic names subject to approval of the Geographic Board of Canada