GEOLOGICAL, GEOPHYSICAL AND GEOCHEMICAL ASSESSMENT REPORT

for the

NEEDA 5-8, 29, 33, 34 BOGG 1-4, 7-20 and CC 1-8

MINERAL CLAIMS

CLINTON and KAMLOOPS MINING DIVISION

NTS 92P/10E

Latitude 51° 39' North Longitude 121° 38' West

Owned by: Placer Dome Inc.,
Suite 1600 - 1055 Dunsmuir St.,
P.O. Box 49330,
Bentall Postal Station
Vancouver, B.C.
V7X 1P1

and

G.H. Rayner & Associates,
c/o 319 - 470 Granville St.,
Vancouver, B.C.
V6C 1V5

Operated by: Placer Dome Inc.,
401-1450 Pearson Place
Kamloops, B.C.
V1S 1J9

Lorne Warner, B.Sc. Geology
Kelly Edwards, B.Sc. Geology
Richard W. Cannon, P. Eng.

November 1990

TABLE OF CONTENTS

		Page
1.0	SUMMARY	1
2.0	RECOMMENDATIONS	2
3.0	DESCRIPTION OF PROPERTY	3
	3.1 Objectives	3
	3.2 Location of Property	3
	3.3 Access	5
	3.4 Physiography	5
	3.5 Property Status	5
4.0	PROPERTY HISTORY	8
	4.1 Work Done by Others	8
	4.2 Previous Work Done by Placer Dome Inc.	9
	4.3 Work Done by Placer Dome Inc. 1990	9
5.0	GEOLOGY	10
	5.1 Regional Geology	10
	5.2 Property Geology	14
	5.2.1 Rock Type	14
	5.2.2 Structure	17
	5.2.3 Mineralization and Alteration	18
6.0	GEOPHYSICAL SURVEYS	19
	6.1 Magnetometer	19
	6.2 VLF-EM	20
7.0	1990 SOIL AND ROCK GEOCHEMICAL SURVEY	21
	7.1 Soil Geochemical Survey	21
	7.1.1 Sample Collection	21
	7.1.2 Preparation and Analysis	22
	7.1.3 Data Handling	23
	7.1.4 Map Preparation	23
	7.2 Rock Geochemical Survey	23
	7.2.1 Sample Collection	23
	7.2.2 Preparation and Analysis	24
	7.2.3 Data Handling	24
	7.2.4 Map Preparation	24
8.0	GEOPHYSICS: Results and Interpretation	24
	8.1 Magnetometer	24
	8.2 VLF-EM	25
9.0	SOIL AND ROCK GEOCHEMISTRY	26
	9.1 Soil Geochemistry	26
	9.1.1 Soil Geochemical Results	26
	9.1.2 Interpretation	30
	9.2 Rock Geochemistry	30
	9.2.1 Rock Geochemical Results and Interpretation	30

10.0 CONCLUSIONS 32

11.0 STATEMENT OF QUALIFICATION 34
11.1 Statement of Qualification - Lorne M. Warner . . . 34
11.2 Statement of Qualification - Kelly Edwards 35
11.3 Statement of Qualification - Richard W. Cannon . . 36

13.0 REFERENCES 39

LIST OF TABLES

Table 1 Claim Particulars 6
Table 2 Statement of Expenditures 37

LIST OF FIGURES

Figure 1 Location Map 4
Figure 2 Claim Location Map 7
Figure 3 Regional Geology Map 12
Figure 4 EN Grid Geology Map . . . . . (in pocket)
Figure 5 BOGG North Grid Geology Map . . . . . "
Figure 6 BOGG South Grid Geology Map . . . . . "
Figure 7 EN Grid Rock Sample Location Map . . . . "
Figure 8 BOGG North Grid Rock Sample Location Map "
Figure 9 BOGG South Grid Rock Sample Location Map "
Figure 10 EN Grid Stacked VLF Profiles - Cutler . . "
Figure 11 EN Grid Stacked VLF Profiles - Seattle . "
Figure 12 EN Grid Stacked Magnetic Profiles . . . . "
Figure 13 EN Grid Contoured Magnetic Data . . . . . "
Figure 14 TOPEN Grid Stacked VLF Profiles - Seattle "
Figure 15 TOPEN Grid Stacked magnetic Profiles . . "
Figure 16 BOGG North Grid Stacked VLF Profiles . . "
Figure 17 BOGG North Grid Stacked Magnetic Profiles "
Figure 18 BOGG North Grid Contoured Magnetic Data . "
Figure 19 BOGG South Grid Stacked VLF Profiles . . "
Figure 20 BOGG South Grid Stacked Magnetic Profiles "
Figure 21 BOGG South Grid Contoured Magnetic Data . "
Figure 22 EN Grid Base Map, Scale: 1:5,000 . . . . "
Figure 23 EN Grid Soil Location and Copper Geochemistry, Scale: 1:5,000 . . . . . "
Figure 24 EN Grid Soil Location and Lead Geochemistry, Scale: 1:5,000 . . . . . "
Figure 25 EN Grid Soil Location and Zinc Geochemistry, Scale: 1:5,000 . . . . . "

Figure 26 EN Grid Soil Location and Silver Geochemistry, Scale: 1:5,000 . . . . . "
Figure 27 EN Grid Soil Location and Gold Geochemistry, Scale: 1:5,000 . . . . . "
Figure 28 BOGG North Grid Base Map, Scale: 1:5,000 "
Figure 29 BOGG North Grid Soil Location and Copper Geochemistry, Scale: 1:5,000 . . . . . "
Figure 30 BOGG North Grid Soil Location and Lead Geochemistry, Scale: 1:5,000 . . . . . "
Figure 31 BOGG North Grid Soil Location and Zinc Geochemistry, Scale: 1:5,000 . . . . . "
Figure 32 BOGG North Grid Soil Location and Silver Geochemistry, Scale: 1:5,000 . . . . . "
Figure 33 BOGG North Grid Soil Location and Gold Geochemistry, Scale: 1:5,000 . . . . . "
Figure 34 BOGG South Grid Base Map, Scale: 1:5,000 "
Figure 35 BOGG South Grid Soil Location and Copper Geochemistry: Scale: 1:5,000 . . . . . "
Figure 36 BOGG South Grid Soil Location and Lead Geochemistry, Scale: 1:5,000 . . . . . "
Figure 37 BOGG South Grid Soil Location and Zinc Geochemistry, Scale: 1:5,000 . . . . . "
Figure 38 BOGG South Grid Soil Location and Silver Geochemistry, Scale: 1:5,000 . . . . . "
Figure 39 BOGG South Grid Soil Location and Gold Geochemistry, Scale: 1:5,000 . . . . . "
Figure 40 POOY Grid Base Map, Scale: 1:5,000 . . . "
Figure 41 POOY Grid Soil Location and Copper Geochemistry, Scale: 1:5,000 . . . . . "
Figure 42 POOY Grid Soil Location and Lead Geochemistry, Scale: 1:5,000 . . . . . "
Figure 43 POOY Grid Soil Location and Zinc Geochemistry, Scale: 1:5,000 . . . . . "
Figure 44 POOY Grid Soil Location and Silver Geochemistry, Scale: 1:5,000 . . . . . "
Figure 45 POOY Grid Soil Location and Gold Geochemistry, Scale: 1:5,000 . . . . . "

LIST OF APPENDICES

APPENDIX I Soil Geochemical Data with Statistical Summary and Histograms

APPENDIX II Rock Sample Descriptions and Geochemical Data

APPENDIX III Rock Geochemical Statistical Summary and Histograms

1.0 SUMMARY

Several large gold ± copper soil anomalies, related to a multi-staged intrusive event were located following the completion of this year's field work. These anomalies are situated on the Needa and recently optioned Bogg claim groups.

The entire Needa and Bogg claim groups encompass a large area totalling 610 units located in both Clinton and Kamloops mining districts. The Needa claims are wholly owned by Placer Dome Inc. whereas the Bogg claim groups are under option to Placer Dome Inc. from G.H. Rayner and Assoc.

Both claim blocks are road accessible and lie approximately fifty kilometres due east of the Village of 100 Mile House. The centre of these properties is at Latitude 51 degrees, 36.5 minutes north by Longitude 120 degrees, 35 minutes west.

From May 14 to July 20, 1990, Placer Dome Inc. constructed and reestablished grids and conducted, soil sampling, magnetometer, VLF-EM and geological surveys on these grids. Much of the work was undertaken in areas previously known to contain gold soil anomalies. The objective was to confirm and/or possible extend these anomalies and define their source.

The gold concentrations on the EN Grid, which is located on both Needa and Bogg claim groups, appear to be situated over sheared felsic tuffs. Most of the grid is underlain by fine to medium grained clastic sediments with only minor volcanic and plutonic activity.

Gold concentrations on the Bogg grid are related to either the contact along a K-spar porphyry or adjacent to shear zones. The grid encloses an island arc centre later intruded by a multi-stage intrusive event.

There are several known copper porphyry occurrences on the Bogg property which were earlier explored for just copper, as well, several large geophysical and geochemical surveys were completed with good results that were not followed up.

On the Needa claims several bulk stream sediment anomalies similar to those in the EN grid area where not followed up. Recent logging has resulted in good access to most of these areas.

2.0 RECOMMENDATIONS

It is recommended that:

(i) Reconnaissance exploration be conducted in areas on the Needa claims with bulk stream sediment gold concentrations. Detailed follow up including grid establishment, soil as well as magnetometer and VLF surveys and geological mapping should be initiated in anomalous areas.

(ii) Old copper soil anomalies on the Bogg claims be relocated and evaluated. Reconnaissance soil sampling would be the first phase, followed by more detailed grid work.

(iii) Geologic mapping of the Bogg grid and immediate area be completed.

(iv) Once all above recommendations are completed, road or trail construction and trenching should be initiated in successful areas. Road rehabilitation to the north end of the Bogg followed by trenching of anomalies should also be undertaken.

3.0 DESCRIPTION OF PROPERTY

3.1 Objectives

There were three main objectives of the 1990 field season. These objectives were;

(i) To define the areal extent of the anomalous gold soil geochemistry on the EN Grid.

(ii) To reproduce and extend gold soil anomalies on the Bogg Grid located by Geotech Capital Corporation in 1988 and 1989.

(iii) To identify the sources of the gold soil anomalies on both grids by conducting geophysical and detailed geological surveys.

3.2 Location of Property

The Needa 5-8, 29, 33, 34, Bogg 1-4, 7-20 and CC 1-8 mineral claims are located in the south central interior of British Columbia in the Clinton and Kamloops Mining Divisions (Figure 1).

The claims lie approximately fifty kilometres due east of the Village of 100 Mile House, just east of Needa Lake and approximately thirty-five kilometres north-east of Little Fort.

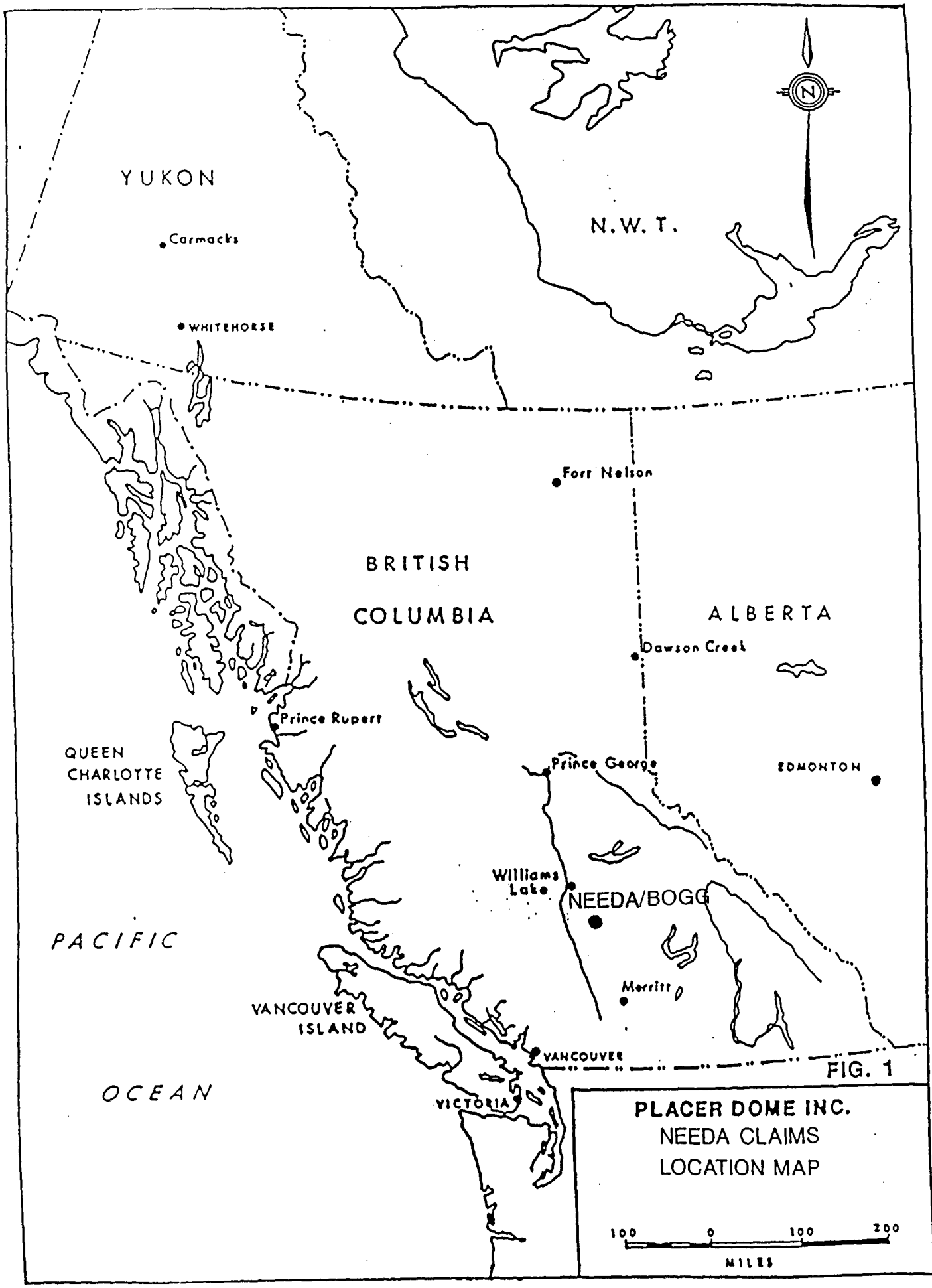
YUKON
N.W.T.
Carmacks
WHITEHORSE
Fort Nelson
BRITISH
COLUMBIA
ALBERTA
Dawson Creek
Prince Rupert
QUEEN
CHARLOTTE
ISLANDS
Prince George
EDMONTON
Williams
Lake
NEEDA/BOGG
PACIFIC
Merritt
VANCOUVER
ISLAND
VANCOUVER
OCEAN
VICTORIA
PLACER DOME INC.
NEEDA CLAIMS
LOCATION MAP
100 0 100 200
MILES

FIG. 1

3.3 Access

Access to the centre of the Needa claims is via the Needa Lake Logging road from Highway 24. Recent logging along Jim Creek from the Wavey Lake Logging road which also starts from Highway 24 is providing new access to key areas in the south-east corner of the Needa claim group.

Access to the Bogg and CC claims is also via the Wavey Lake Logging road. An old mining road approximately 16 kilometres up the Wavey Lake road continues towards the main areas of interest on the claims.

3.4 Physiography

The Needa claims are located on the northern extension of the Bonaparte Plateau, with their relief ranging from 1111 to 1646 metres above sea level. The claim area has been glaciated into a gently rolling plateau that plunges moderately into "U" shaped, generally thick overburden covered valleys. Much of the claim area is and/or was covered by mature spruce or fir stands; some of the claim area has been logged.

Most of the drainages appear to be geologically controlled by fault or shear zones. Swampy areas are mostly restricted to the larger valleys or depressions and are predominantly thick overburden areas.

3.5 Property Status

The 1990 field program assessed the following claims; the Needa 5-8, 29, 33, 34, the Bogg 1-4, 7-20, and the C-C 1-8 totalling 451 units (Figure #2). The claim schedule is located in Table 1. The indicated expiry dates take into account the 1990 work program.

Table 1 Claim Particulars

Name	Units	Record No.	Expiry Date
Needa 5	20	2841	Dec.31, 1993
Needa 6	20	2842	Jan. 1, 1994
Needa 7	20	2855	Jan. 9, 1994
Needa 8	20	2856	Jan. 9, 1994
Needa 29	16	3069	Sep. 9, 1994
Needa 33	1	2848	Dec.31, 1993
Needa 34	1	2849	Dec.31, 1993
Bogg 1	12	6271	Jun.24, 1993
Bogg 2	12	6272	Jun.24, 1993
Bogg 3	12	6273	Jun.24, 1993
Bogg 4	16	6274	Jun.24, 1993
Bogg 7	10	7059	May 29, 1993
Bogg 8	9	7060	May 29, 1993
Bogg 9	15	7061	May 29, 1993
Bogg 10	12	7220	Aug. 5, 1993
Bogg 11	9	7221	Aug. 5, 1993
Bogg 12	12	7222	Aug. 5, 1993
Bogg 13	6	7223	Aug. 5, 1993
Bogg 14	16	9336	May 14, 1993
Bogg 15	20	2425	Oct.15, 1993
Bogg 16	20	2426	Oct.15, 1993
Bogg 17	16	3192	Feb.11, 1993
Bogg 18	20	3193	Feb.11, 1993
Bogg 19	10	9337	May 13, 1993
Bogg 20	4	9338	May 13, 1993
C-C 1	12	9206	Apr. 9, 1992
C-C 2	9	9207	Apr. 9, 1992
C-C 3	16	9208	Apr. 8, 1992
C-C 4	20	9209	Apr. 8, 1992
C-C 5	18	9211	Apr. 9, 1993
C-C 6	20	9210	Apr. 9, 1992
C-C 7	15	9212	Apr. 9, 1992
C-C 8	12	9213	Apr. 9, 1993

The Needa claims are currently 100% owned by Placer Dome Inc. The Bogg and C-C claims are under option from G.H. Rayner and Associates Limited. Placer Dome can earn up to 100% interest on the Bogg and C-C claims.

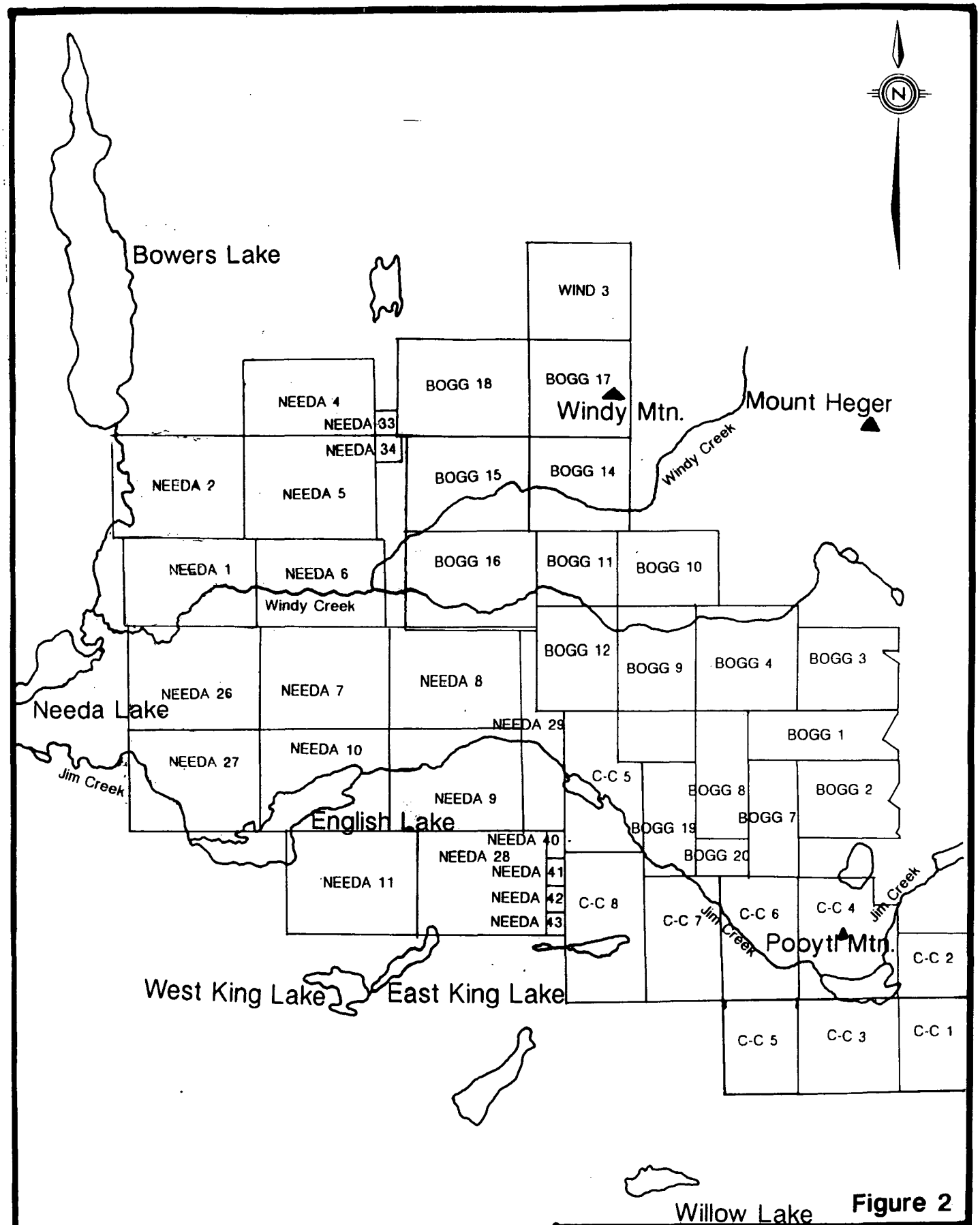

Figure 2

PLACER DOME INC.	
Claim Location Map	
November 1990	Scale 1:100,000
L.Warner	NTS 92P/9W-10E

4.0 PROPERTY HISTORY

4.1 Work Done by Others

There is no record of any previous systematic exploration having been conducted on the Needa claim area. Local residents however, knew that placer gold was present in both Windy and Jim Creeks.

Within the Bogg and C-C claim area, various exploration programs have been undertaken. Anaconda American Brass Limited, from 1965 to 1970, initiated regional soil geochemical as well as geological mapping and induced polarization surveys for the purpose of locating a porphyry copper deposit. Minor trenching and percussion drilling programs followed.

G.H. Rayner staked the area in 1971 and optioned the claims to Prism Resources Limited in 1972. The area was geologically mapped by Orr and Sinclair but no follow up work was initiated.

Cities Services Minerals Corporation optioned the claims in 1973 because they considered the widespread alteration and sulphide mineralization to be typical of a porphyry copper environment. Work performed included trenching of an old induced polarization anomaly and subsequent exposure of a weak copper mineralized, fractured syenite. Additional claim staking, expanded grid construction, soil sampling and an induced polarization survey were completed in 1974. A total of 1763 feet of diamond drilling and continued geological mapping was also performed. One of the holes returned 0.076% copper and 0.006% Mo over 180 feet within quartz-epidote veins associated with a kaolinized porphyritic volcanic containing coarse crystalline pyrite in vugs.

Twelve 300 foot percussion holes were attempted in 1975 with copper mineralization being intercepted sporadically.

Commonwealth Minerals Limited, in 1978, optioned the claims with the purpose of determining the extent of mineralized dykes and breccias containing two to three percent copper. The program was limited in area and only covered existing showings.

S. Zastavnikovich in 1985 completed a regional stream sediment survey with the objective of establishing possible gold mineralization associated

with the identified copper sulphides. Several drainages were found to contain anomalous gold values.

Geotech Capital Corporation optioned the claims in 1987 with the purpose of delineating the source of the gold in the stream sediment samples. A large soil grid was established and located three anomalous areas. The grid was extended to the north and soil sampled in 1988. The northern gold anomaly was expanded. Limited induced polarization was then conducted over part of the grid followed by an eight hundred metre diamond drilling program. The drilling program tested only induced polarization targets with one hole intersecting 0.6 grams/tonne gold over 6.0 metres in an altered tuff containing orthoclase veinlets.

The claims were returned to G.H. Rayner in early 1990.

4.2 Previous Work Done by Placer Dome Inc.

A total of 160 bulk stream sediment samples were collected from the Needa claims in 1989. The encouraging results lead to the establishment of three reconnaissance grids totalling 45.6 kilometres and the collection of 1561 soil samples. One of the grids (EN Grid) revealed a large copper and gold soil anomaly over 1.2 kilometres in length and 300 metres in width that was open in three directions. The soil anomaly was apparently striking towards the Bogg claims.

No field work had been previously conducted on the Bogg and C-C claims by Placer Dome.

4.3 Work Done by Placer Dome Inc. 1990

The field season began on May 14 and ended on July 20. Within this time frame, a total of 97.225 kilometres of flagged line was established or re-constructed and a total of 1762 soil and 228 rock samples were collected.

During the 1990 field season the EN Grid was expanded, soil sampled, geologically mapped and covered by magnetometer and VLF geophysical surveys. The EN Grid, which was established on the Needa claims, now extends onto the Bogg claims. A small grid, called the Top-EN Grid was also established for the purpose of

conducting a VLF survey over the top of the main EN Grid soil geochemistry on an orientation nearly perpendicular to the EN Grid.

On the Bogg claims, the grid established by Geotech was re-constructed with several lines also being extended. All new line extensions and areas previously known to contain anomalous gold soil geochemistry were soil sampled and geologically mapped. The entire Bogg Grid was also covered by a magnetometer survey, and most of the grid by a VLF-EM geophysical survey.

A small grid called the Pooy Grid consisting of four-one and a half kilometre long reconnaissance lines was also established and soil sampled. No geological mapping or geophysical surveys were initiated on the grid.

5.0 GEOLOGY

5.1 Regional Geology

According to Campbell and Tipper (1971), the property is situated on the west-central flank of the northwesterly-trending Quesnel Trough. The trough consists of Nicola Upper Triassic-Lower Jurassic volcanics and sediments. Along the western boundary of the property, Skull Hill acid volcanics of Oligocene age occur. The Skull Hill volcanics are at the eastern edge of the Miocene and/or Pliocene plateau basalts, which probably cover half of the NTS 92P Bonaparte Geology map sheet.

Locally, it appears that the Needa claims consist of mainly Jurassic volcaniclastics and sediments such as: andesitic arenite, siltstone, grit, breccia and tuff, conglomerate, greywacke, minor argillite, and flows. These Jurassic volcaniclastics are mainly erosional byproducts of the earlier island arc volcanics, however, Nicola Group island arc volcanic units may also be present within this sedimentary sequence.

The Bogg and C-C claims enclose typical island arc volcanic, subvolcanic and sedimentary units which are of Upper to Lower Triassic age. These units, in several areas on the claims, have been intruded by Cretaceous or Later (?) mostly syenitic intrusives.

An integrated landsat study of the Bonaparte Lake map sheet area indicates that the property area contains a high density of structures. Several of these features are considered to be major lineaments. A government airborne magnetic survey contains several circular magnetic highs, such as between English and East King Lakes, which may represent intrusive bodies.

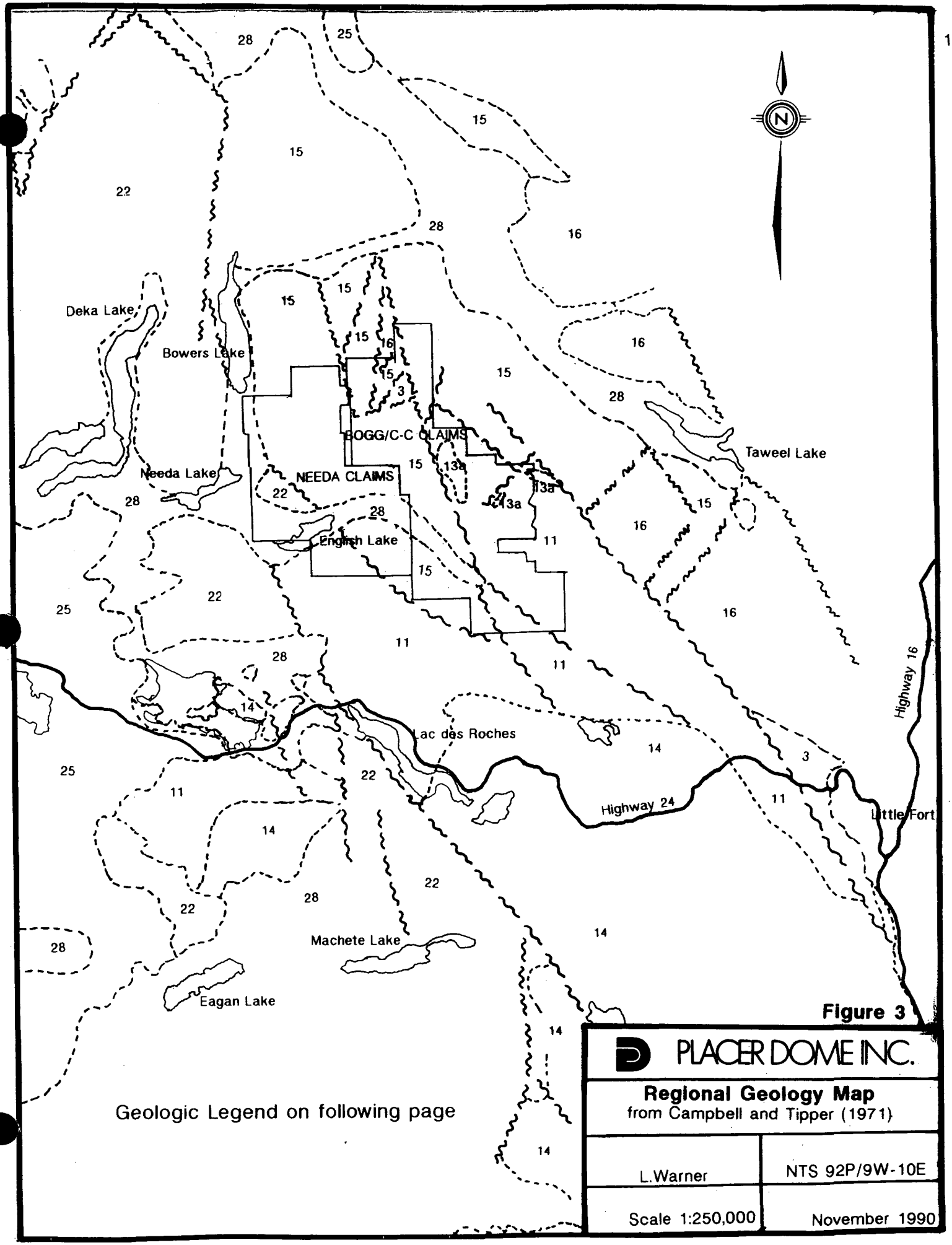

Figure 3

Geologic Legend on following page

PLACER DOME INC.

Regional Geology Map
from Campbell and Tipper (1971)

L.Warner	NTS 92P/9W-10E
Scale 1:250,000	November 1990

GEOLOGIC LEGEND

QUATERNARY

PLEISTOCENE AND RECENT

28 *Till, gravel, clay, silt, alluvium, (few if any bedrock exposures)*

TERTIARY

MIOCENE AND/OR PLIOCENE

25 *Plateau lava; olivine basalt, basalt andesite, related ash and breccia beds; basaltic arenite;* 25a, *olivine gabbro plugs*

EOCENE AND (?) OLIGOCENE

KAMLOOPS GROUP (21, 22)

22 *SKULL HILL FORMATION: dacite, trachyte, basalt, andesite, rhyolite, related breccias*

CRETACEOUS

20 *RAFT AND BALDY BATHOLITHS AND SIMILAR GRANITIC ROCKS: biotite quartz monzonite and granodiorite; minor pegmatite, aplite, biotite-hornblende, quartz monzonite;* 20a, *quartz diorite, diorite, granodiorite (may include some older rocks);* 20b, *aplite, leuco-quartz monzonite and granite*

JURASSIC

SINEMURIAN TO (?) MIDDLE JURASSIC

16 *Porphyritic augite andesite breccia and conglomerate; minor andesite, arenite, tuff, argillite, and flows (may include some 11;* 16a, *isolated areas of hornblende andesite (may be all or partly intrusive)*

15 *Andesitic arenite, siltstone, grit, breccia and tuff; local granite bearing conglomerate, greywacke; minor argillite and flows (may include some 11)*

TRIASSIC OR JURASSIC

RHAETIAN OR HETTANGIAN

14 *THUYA AND TAKOMKANE BATHOLITHS AND SIMILAR GRANITIC ROCKS: hornblende-biotite quartz diorite and granodiorite, minor hornblende diorite, monzonite, gabbro, hornblendite;* 14a, *diorite and syenodiorite;* 14b, *leuco-quartz monzonite and granodiorite*

13 13a, *fine- to medium-grained, pink to brown and grey syenite and monzonite;* 13b, *medium-grained, creamy-buff, locally coarsely porphyritic (K-feldspar) syenite and monzonite*

TRIASSIC

KARNIAN AND NORIAN

NICOLA GROUP

11 *Augite andesite flows and breccia, tuff, argillite, greywacke, grey limestone;* 11a, *includes minor 3 and 10*

10 *Black shale, argillite, phyllite, siltstone, black limestone*

PENNSYLVANIAN AND PERMIAN

MORROWAN TO GUADALUPIAN

3 *Volcanic arenite, greenstone, argillite, phyllite; minor quartz-mica schist, limestone, basaltic and andesitic flows, amphibolite, conglomerate and breccia; includes small bodies of 16a*

MISSISSIPPIAN AND/OR LATER

SLIDE MOUNTAIN GROUP

2 *FENNELL FORMATION: pillow lava flows, greenstone, foliated greenstone, greenschist, argillite, chert, minor amphibolite, limestone, breccia*

5.2 Property Geology

Outcrop locations and geology were mapped and plotted at a scale of 1:5000 on portions of the EN and BOGG Grids (see Figures 4, 5 and 6). Interpretation of the geology for both grids relied on a combination of geological, geochemical, and geophysical data.

Outcrop on both grids is good but sporadic and generally limited to higher elevations on both properties. The valleys and side slopes have thick overburden. A swampy depression with no outcrop separates the northern portion of the EN Grid from the BOGG Grid, and makes correlation between the two grids difficult.

5.2.1 Rock Type

The geology underlying the EN grid, as determined by this year's field work, is displayed on Figure 4. A total of ten main rock types were located on the grid, yet over ninety percent of the outcrops consist of three sedimentary rock units (S1-3). These sedimentary units were formed in a rapidly fluctuating shallow to deep submarine environment. Debris flows/greywacke and minor limestone sedimentary units also occur. Igneous activity is limited to the emplacement of dioritic to syenitic dykes and the deposition of felsic tuffs. Also present are several outcroppings of younger agglomeratic basalt flows, thought to be of Eocene age.

Rock sample locations and geochemical results are located on Figure 7 and in Appendix II respectively.

Listed below are brief descriptions of the different rock types occurring on the EN grid;

<u>Sedimentary</u>

(S1) Mudstone - very fine grained, dark grey to black, massive, can be interbedded with siltstone (S2).

(S2) Siltstone - fine grained, dark to light grey, massive, can be highly silicious, equivalent to feldspathic arenite in composition.

respect to the EN grid. Eight main rock types were located by geological mapping, however the entire grid was not surveyed. As well, the inspection of core from two old diamond drill holes revealed the existence of andesitic lapilli tuffs, breccias and graphitic phyllites, none of which are exposed in the areas mapped.

The Bogg grid and immediate area are situated over the centre of a Triassic island arc system overlying a Jurassic multi-staged intrusive event. In the northern area of the grid, the majority of outcrops consist of andesitic tuffs and siltstone-sandstone interbedded units interrupted by diorite and K-spar porphyry or biotite porphyry dykes. Old drill core containing andesitic lapilli tuffs and breccias came from this area. In the south-west corner of the Bogg geology map, Figure 6, the majority of outcrop consists of diorite and K-spar porphyry intrusive bodies as well as several pyroxene dykes. In the east-central area of the grid, the geology consists of diorite, tuff and andesitic flows some of which are tectonically brecciated by the later introduced syenite porphyry.

The locations of rock samples collected for analysis on the Bogg grid are presented on Figures 8 and 9. Their analytical values are listed in Appendix II.

Listed below are brief descriptions of the different rock types outcropping on the Bogg grid:

Sedimentary

(S2) Siltstone - fine grained, medium grey to greenish grey, a more sedimentary mature equivalent to unit Vt1.

(S4a) Limestone - finely crystalline, light grey to greenish grey, clean. Interbedded with siltstones, beds up to 10 centimetres thick.

(S3) Sandstone - fine grained to cherty texture, light grey to greenish grey, vague layering visible. Interbedded with siltstones.

(S3) Sandstone - medium grained, medium to light grey, ranging from feldspathic arenite to arenite in composition.

(S4b) Limestone - finely crystalline, dark bluish grey to dark grey, contains high mudstone content.

(S5a) Greywacke - fine to medium grained matrix, medium grained round particles, mainly units S1 and Vt1.

(S5b) Debris flow - heterolithic, contains large fragments of S4b and S3 within. Poorly sorted.

Volcanic

(Vt1) Felsic Tuff - fine grained, andesitic composed matrix supporting subangular to angular, felsic fragments. May be confused with units S3.

(Vb1) Agglomeratic Basalt - fine grained, black with red-brown oxidized surface, polymictic subangular fragments. Basalt is of Eocene age.

Plutonic

(P1a) Diorite - fine grained, dark green, massive, outcrops mostly as dykes.

(P1b) Porphyritic Diorite - similar to P1a with sub to euhedral white feldspar phenocrysts.

(P2a) K-spar Porphyry - fine to medium grained, pinkish-white syenitic matrix supporting K-spar and quartz phenocrysts. Outcrops mainly as dykes.

(Ph1) Pyroxene Dykes - rare, medium to coarse grained, greenish black to black.

The geology of the Bogg grid, as shown on Figures 5 and 6, indicates an environment of greater volcanic and plutonic activity with

Volcanic

(Vt1) Felsic Tuff - fine grained, andesitic matrix supporting angular felsic fragments

(Va) Andesite - fine grained, green, massive flow, fractured, most andesite is in close proximity to intrusives resulting in intense alteration.

Plutonic

(P1a) Diorite - medium grained, dark green, equigranular, fractured and altered by K-spar syenitic porphyry.

(P1c) Hornblende Diorite - massive, fine grained, green with round hornblende phenocrysts, quartz fragments. Rare, found only as subcrop.

(P2a) K-spar Porphyry - medium grained, pinkish-white syenitic matrix supporting K-spar phenocrysts. Porphyry occurs in large bodies and in dykes.

(P2b) Biotite K-spar Porphyry - medium grained, white to pinkish white matrix supporting biotite. Phenocrysts with lesser amounts of k-spar. Outcrops occur in the north and north central portion of the grid and may crosscut Unit P2.

(Ph1) Pyroxene Dykes - medium to coarse grained, greenish-black to black, only a few outcrops were recorded, however, these dykes appear to cross-cut most of the units and may be the youngest unit on the grid.

5.2.2 Structure

Landsat imagery of the EN grid infers the existence of a large structure trending nearly

parallel to the baseline. A second landsat structure trends at 210 degrees, intercepting the above mentioned structure from the south, near Line 10700E. Mapping of the grid located numerous other shear zones, most of which are randomly orientated. The larger shears, however, have a preferred orientation of north to north-northwest and are generally located in close proximity to the felsic tuffs.

The same inferred structure trending along the EN grid baseline is suggested to project through the Bogg grid into the area of main drainage which eventually enters into Windy creek. There are two splays from this inferred structure which enter the northern end of the Bogg grid. Although no prominent large scale structures were mapped, there are numerous north-south shears occurring in the northern end of the grid, with lesser east-west shears. The shearing does not appear to prefer one particular lithology.

5.2.3 Mineralization and Alteration

Finely disseminated euhedral pyrite is ubiquitous in most of the sedimentary rocks on the EN grid. Disseminated and fracture controlled anhedral pyrite commonly occurs near to and along shears that are hydrothermally bleached and contain increased quartz stockwork veining and carbonate alteration with minor mariposite. Trace amounts of chalcopyrite were found within the quartz veins associated with the shear zones. Primary pyrite and pyrrhotite commonly occur with diorite.

In the northern area of the Bogg grid, intense bleaching, accompanied by silicic, chloritic and lesser K-spar alteration occurs in all intensely sheared units. Quartz veining / stockwork is generally present, as is mariposite, jasper and hematite. Pervasive chlorite and fracture controlled epidote is present in the diorites. Carbonate alteration in the form of dolomite is ubiquitous throughout most highly altered areas, creating the gossanous soils and oxidized rocks. Mineralization consists of finely disseminated pyrite and trace amounts of chalcopyrite in these altered areas.

The south-west corner of the Bogg grid, at lines 38000E to 39000E, south of the baseline, covers a diorite / K-spar porphyry contact. The introduction of the porphyry resulted in chlorite and epidote alteration of the diorite. Within five to one hundred metres of the contact, chloritic alteration intensifies, accompanied by secondary K-spar veining and alteration and dolomitic alteration. Along the contact, for an average width of five metres, the rock is totally silicious with only minor amounts of dolomite and pyrite. Within the intrusive, near the contact, limited quartz stringers occur. Finely disseminated pyrite, under one percent, and trace amounts of chalcopyrite occur in the host diorites within one hundred metres of the contact.

In the east central area of the Bogg grid, similar chloritic, epidote and K-spar alteration occur, but in a much more geologically complex setting. The pyrite content is also similar, however, chalcopyrite is more common but still in concentrations of 0.2% or less. This area was not completely surveyed, and therefore only limited data was obtained.

6.0 GEOPHYSICAL SURVEYS

6.1 Magnetometer

On the EN and Bogg Grids, 28.2 and 49.8 kilometres of line respectively were surveyed. These surveys were conducted on lines which were spaced 100 metres apart.

Magnetometer readings were taken at 12.5 metre stations and corrections for diurnal changes were made by use of a base station recording magnetometer.

Equipment Used

The magnetometer survey was conducted using two Geometrics G-856 portable proton magnetometers. One was used in the field mode while the other was used in a base station mode. The internal clocks were synchronized before commencement of the survey and subsequent daily readings were dumped out to disk in a Toshiba 3200 laptop portable computer. The data from the two magnetometers was merged and corrected for diurnal drift from an established base station value.

The corrected results were stored on disk for eventual transfer to a Sun computer system for final plotting and processing.

6.2 VLF-EM

VLF-EM surveys were carried out along 35.82 and 42.88 kilometres of line on the EN and Bogg Grids respectively. These surveys were conducted on lines which were spaced 100 metres apart.

The VLF-EM survey on the EN grid employed the transmitting stations at Cutler, Maine and Seattle, Washington along the lines which were at 325 Az. Readings were taken facing 002 Az. for Cutler and 282 Az. for Seattle along the lines at 25 metre intervals. Cross-overs are therefore in the sense of positive to negative as one traverses north along the lines. Positive values are plotted on the west side of the profile plot.

The TOPEN grid was run using the Seattle station and facing 102 Az. Cross-overs are therefore in the sense of positive to negative as one traverses east along the line.

The VLF-EM survey on the Bogg Grid employed the transmitting station at Cutler, Maine along the north-south lines. Readings were taken facing 002 Az. along the lines at 25 metre intervals. Cross-overs are therefore in the sense of positive to negative as one traverses north along the lines. Positive values are plotted on the west side of the profile plot.

Equipment Used

The VLF-EM survey employed a Geonics EM-16 which used the Cutler (NAA, 24.0 kHz) and Seattle (NLK, 24.8kHz) transmitting stations. VLF readings were entered onto disk in a Toshiba 3200 laptop portable computer. The stored data was transferred to a Sun computer system for final plotting and processing.

7.0 1990 SOIL AND ROCK GEOCHEMICAL SURVEY

7.1 Soil Geochemical Survey

7.1.1 Sample Collection

Three grids, the EN, Bogg, and the Pooy were established to provide control for the soil sampling surveys. A total of 97.225 kilometres of base and cross line was constructed.

The base lines were flagged and blazed and cross lines were positioned at 100 metre intervals. The lines were surveyed by using a Silva compass and hip chain, and were flagged in florescent orange tape. Stations were established at 25 metre intervals along all lines and are flagged in florescent orange and blue tape, with a marked Tyvex tag giving line and station coordinates.

The overburden thickness and soil composition varied greatly on all three grids. The B-horizon was sampled when possible and samplies were collected from 10 to 30 centimetre depths by using hand-held augers. The soil sample was placed in a brown Kraft paper envelope and labelled with line and station coordinates and the grid name for identification. Notes on the soil conditions and type of soils were recorded for each sample.

<u>En Grid</u>

The EN Grid soil development is generally uniform along the valley slope. The top thin soil horizon, identified as A1, consists of black, decomposing organic material typically 2.0 to 5.0 centimetres thick and overlies a 5.0 to 10.0 centimetre thick greyish-white soil horizon which was labelled as A2. The B-horizon is below the A-horizon, and attains depths of up to 40 centimetres. It is composed of medium to dark, reddish-brown sandy clay. Lines 10800 to 11800E, north of the base line cover an area of thin overburden where very dark red to reddish-brown sandy clay B-horizon soils were encountered. Proceeding to the east, the grid trends towards a valley bottom resulting in mostly reddish-brown silty-clay soils. The B-horizon soils obtained near the base of the valley increase in clay content and change from a reddish-brown to brown colour.

Bogg Grid

The Bogg and EN Grid have similar soil characteristics within areas containing the same environmental conditions.

The B-horizon soils north of Line 40600N, in areas with good rock exposure, consist of very red to red-brown sandy-clays. These are residual soils similar to those found on the EN Grid between Lines 10800-11800E, north of the base line. Elsewhere on the grid, in areas containing good rock exposure, the B-horizon generally consists of red-brown silty-clays. Areas of poor to no rock exposure usually contain a thick B-horizon of brown, very fine grained clays.

Pooy Grid

The soil program conducted on the Pooy Grid was limited to four, one and a half kilometre long lines in an area with no known mineral occurrences. The reddish-brown, B-horizon soils were located along ridge crests and valley slopes but were generally thick accumulations of silty-clays. Thick glacial and fluvial debris is concentrated at the valley bottoms, thereby inhibiting any geochemical response.

7.1.2 Preparation and Analysis

A total of 1762 soil samples was shipped to Placer Dome's Laboratory in Vancouver, British Columbia, for geochemical analysis of copper, lead, zinc, silver, and gold. The samples were dried in a hot-air dryer and sieved to extract the -80 mesh fraction.

For the copper, lead, zinc, and silver analysis, a 0.5 gram portion of the -80 mesh fraction is digested in a hot HNO_2 and $HClO_4$ solution, then cooled and diluted before being analyzed on an Atomic Absorption Spectrophotometer.

Gold is analyzed using a 10.0 gram portion of the -80 mesh fraction, which is mixed with aqua regia and heated. The solution is analyzed for gold by Atomic Absorption. The detection limit

for the copper, lead, zinc, silver, and gold is 1 ppm, 2 ppm, 1 ppm, 0.1 ppm, and 5 ppb respectively.

7.1.3 Data Handling

All geochemical data was entered into a computer file. A computer program was then used to determine basic statistics. Log histograms were also produced of each metal in order to define a boundary between the background, threshold and anomalous values. All statistical data and histogram plots are shown in Appendix I with the bulk stream sediment sample results.

7.1.4 Map Preparation

Soil sample locations as well as all streams, lakes, topographic contour lines, roads or trails, and claim lines have been digitized using U.T.M. co-ordinates into CADD (Computer Aided Drafting and Design) files. The CADD program was used to overlay the topographical base on plots of the soil sample results. The final maps were produced by a drum-type pen plotter at a 1:5,000 scale.

Figures 19-23, 25-29, and 31-35 present the sample locations and the geochemical values for copper, lead, zinc, silver, and gold on the EN, Bogg, and Pooy Grids, respectively. Figures 18, 24, 30 are base maps of each of the three grids. Any previous soil data for the grids is also incorporated onto the maps.

7.2 Rock Geochemical Survey

7.2.1 Sample Collection

A total of 255 grab samples was collected during the 1990 field season. Sample locations were flagged in the field and are plotted on Figures 7, 8 and 9. Brief descriptions of each sample can be found in Appendix II.

7.2.2 Preparation and Analysis

Rock samples were shipped to the Placer Dome Inc. laboratory in Vancouver for gold geochemical analysis, with some samples also analyzed for copper and silver. A summary of rock sample data is listed in Appendix II.

7.2.3 Data Handling

All gold geochemical data was handled similarly as the soil data. Geochemical results for other elements do not have significant populations to warrant statistical analysis. Statistical data and histograms for gold on both the EN and BOGG Grids is shown in Appendix III.

7.2.4 Map Preparation

Sample locations with gold and copper (where applicable) values were plotted at a 1:5000 scale. EN Grid rock sample locations are shown on Figure 7, BOGG Grid rock locations are shown on Figures 8 and 9.

8.0 GEOPHYSICS: Results and Interpretation

8.1 Magnetometer

The magnetometer survey results were plotted as plan maps of stacked profiles and contoured data at a scale of 1:5000. See maps in folder at the back of report.

EN GRID and TOPEN GRID

Magnetically, the Needa and Topen grid areas are quite flat except for three or four isolated spikes in the data. Refer to Figures 12 and 13 for the Needa grid and Figure 15 for the Topen grid.

BOGG GRID

Figures 14 - 18 and 20 - 21 display magnetic data for the Bogg North and Bogg South grids respectively. A contact or dyke like feature was detected on Line

40800 E, 39750 N through to Line 41400 E, 40180 N. This magnetic anomaly is paralleled to the east by a VLF-EM conductor. A similar feature is located on Line 39400 E, 39200 N through to Line 40100 E, 39570 N. A contact has been interpreted to occur from Line 38700 E to 38000 E, near 40000 N. With the exception of a magnetic low centred on Line 40700 E at 40100 N, the rest of the grid is magnetically quite flat.

8.2 VLF-EM

The VLF-EM survey results were plotted as stacked In-phase, Quadrature and Fraser Filter profiles at a scale of 1:5000. The Fraser Filter data was calculated as per the method put forth by D.C. Fraser (1969, Contouring of VLF-EM Data: Geophysics, v.34, p. 958-967). See map in the folder at the back of report.

EN GRID

Several two and three line conductors were detected on the grid as shown on the stacked profile plan map of data obtained using the Seattle transmitter (Figure 11). Two long conductors were detected; one of which is caused by a barbed wire fence and the other which can be traced from Line 10400 E,9390 N to Line 11400 E, 9660 N.

A portion of the grid was run using the Cutler transmitter and similar results were obtained. (Figure 10).

TOPEN GRID

Six lines were run on the TOPEN grid using the Seattle transmitter and numerous conductors which trend just west of a north-south direction were detected. These conductors could be traced quite well from line to line and most of them were open to the north and south (Figure 14).

BOGG GRID

Stacked VLF profiles for the Bogg grid are illustrated on Figures 16 and 19. The majority of the conductor axes trend northwest or north-northwest. A considerable number of these conductors could be traced over more than four lines and most likely represent

faulting or shearing. Breaks and offsets in the conductor trends appear to be east-west and may represent another major shearing direction.

9.0 SOIL AND ROCK GEOCHEMISTRY

9.1 Soil Geochemistry

9.1.1 Soil Geochemical Results

A statistical analysis of the geochemical data was undertaken to determine threshold levels for each grid, results of which are located in Appendix I. These levels are usually applied to separate the anomalous populations from the background values. However, in light of the selective sampling conducted on the EN and especially Bogg grids, and limited sampling on the Pooy grid, historical data was also used to determine the threshold levels.

The threshold levels are interpreted to be as follows for all grids:

Copper	100 ppm
Lead	30 ppm
Zinc	150 ppm
Silver	0.75 ppm
Gold	25 ppb

EN GRID

Figures 22 through 27 show soil geochemistry for the En grid.

Copper

Copper values range from 3.0 to 376 ppm with 40 of the 782 samples considered as anomalous. The anomalous values are generally weakly anomalous and spotty and do not suggest any soil geochemical trend related to mineralization (See Fig. 23).

Lead

Lead has concentrations ranging from 3.0 to 43 ppm and has only four samples considered anomalous. The highest and only significant sample occurs on Line 10700E/9875N which is coincident with the highest copper value (Fig. 24).

Zinc

Zinc has values that range from 18 to 490 ppm with 131 samples considered as being anomalous. For the most part, the values are erratically distributed except in an area between Lines 10900 to 11300E from 9300 to 9600N (Fig. 25). This area has a high concentration of anomalous values, however, they do not infer any distinct area or trend.

Silver

Silver concentrations vary from 0.1 to 22 ppm with 71 samples considered as being anomalous. There is a weak trend occurring from Lines 10200 to 12000E that runs just south and sub-parallel to the baseline (Fig. 26). The remainder of the anomalies are erratically distributed.

Gold

Gold has values that range from 2.5 to 850 ppb with 111 of the 782 samples having values greater then 25 ppb. Figure 27 illustrates a moderate to strong trend occurring from Line 11200E at the baseline to Line 11900E/10475N. There is also a trend occurring from Line 10999E/9775N to Line 11100E/10175N. The remainder of the anomalous samples are somewhat erratically distributed but do weakly infer some due east-west trends.

BOGG GRID

Bogg grid soil geochemistry maps for copper, lead, zinc, silver and gold are illustrated in Figures 29 - 33 for the North grid and Figures 34 - 39 for the South grid.

Copper

Copper has values that range between 5 to 323 ppm with 58 of the 738 samples considered anomalous. The only area indicating an anomalous trend occurs from Line 40100E/39700N to Line 40300E/39850N (Figures. 29 and 35). The remainder of the anomalies are spotty with only a minor coincidence with silver anomalies.

Lead

Lead concentrations range from 3 to 100 ppm with 82 samples considered to be anomalous. There is no particular area with a concentration of lead values (See Figures. 30 and 36).

Zinc

Zinc has values that vary from 36 to 365 ppm with 142 samples considered as being anomalous. There are no distinct anomalous zones or trends, however, there appears to be a higher concentration of anomalies in the Line 41000E to 42000E area, spatially associated with anomalous gold values (Figures. 31 and 37).

Silver

Silver values from the 1990 program range from 2.0 to 2.9 ppm with 46 samples considered to be anomalous. The silver anomalies are erratically distributed and do not infer any geochemical trends (Figures. 32 and 38).

Gold

Gold concentrations range from 2.0 to 2345 ppb with 200 samples considered anomalous (Figs. 33 and 39). The first area is located in the very south-west corner of the grid on Lines 38000E to 39000E. The second area occurs in the north-central area of the grid from Lines 40600E to 42000E and carries over to the northern Extension Grid onto Lines 40100N to 40600N.

POOY GRID

Soil geochemical maps are labelled Figures 40 to 45 for the base map, copper, lead, zinc, silver and gold soil results respectively.

Copper

Copper has values that range from 10 to 170 ppm with 15 sample sites considered anomalous. There is a weak trend occurring from Line 10000N/11000E to Line 10400N/11275E, this trend is coincident with a gold soil trend (Figure 41).

Lead

Lead values range from 5 to 36 ppm with only one sample that is weakly anomalous and not coincident to any other anomalous geochemistry (Figure 42).

Zinc

Zinc concentrations range from 31 to 400 ppm with 58 sites considered to be anomalous. The area between Lines 9800N to 10200N centred at 10500E contains almost all of the anomalous values and is coincident with some silver values (Figure 43).

Silver

Silver values vary from 0.1 to 2.0 ppm with 25 samples considered to be anomalous. These anomalies are generally spotty and infer no anomalous trends. Silver concentrations on Lines 10000N and 10200N near 10500E are coincident with zinc anomalies (See Figure 44).

Gold

Gold values range from 2.5 to 465 ppb with 25 samples considered anomalous. There is one trend that extends from Line 9800N/11025E to Line 10400N/11300E and is still open at both ends. There is a second anomalous trend, with a similar orientation to the other gold trend occurring from Line 10000N/10500E to Line 10400N/10775E. See Figure 45 for gold geochemical plots on the grid.

9.1.2 Interpretation

EN GRID

The moderate to strong north-east gold trend is a reflection of a large structure that is not always seen at surface. The weaker structurally controlled east-west trending gold anomalies are projected to intercept the larger gold anomalous structure around Line 10700E/ 9900N. In the area of the projected point of interception, the geology map indicates a radial dispersion of structures. The best multi-element soil anomaly occurs at Line 10700E/9875N which is only 25 metres south of the projected point of interception.

BOGG GRID

One interpretation that can be made concerning copper, lead and zinc anomalies is that they are not coincident with known gold soil concentrations. High silver values have been recognized to occur in the host rocks along the contact with the K-spar porphyry. Silver values occurring in the very centre of the grid are considered to be hydromorphic anomalies. Gold anomalies at the north end of the grid appear to be related to mainly north-south shear or fault zones, with the higher values near junctions with east - west shears. In the south-west corner of the grid, high gold values are a reflection of the K-spar porphyry and contact zone's anomalous gold content.

POOY GRID

There are two north-east trending gold soil anomalies with minor coincident copper and silver values which appear to be related to structures. No geological mapping was completed on the grid, however, soil notes indicate the anomalous areas contain good soil development.

9.2 Rock Geochemistry

9.2.1 Rock Geochemical Results and Interpretation

Rock samples from both the En and Bogg Grids were combined for statistical analysis of gold values; results are given in Appendix III. Statistical analyses were not performed on copper and silver values due to the small sample population for these elements. Threshold values for gold are given below:

Threshold Values Au (ppb)

Background	<20 ppb
Anomalous	20 - 40 ppb
Moderately Anomalous	40 - 80 ppb
Highly Anomalous	>80 ppb

EN GRID

Of the 95 rocks sampled on the En Grid, only 19 were above background threshold levels. Of those 19, only six samples were highly anomalous. Although gold results are low, a correlation exists between gold assay results, rocks containing mariposite, and gold-copper soil geochemistry. Rock geochemistry compliments the gold soil trend from Line 11100E, 9950N north east to Line 11700E, 10300N. A parallel trend may exist from Line 11100E, 10000N to Line 11300E, 10300N.

Other isolated anomalous rock values occur proximal to felsic intrusive contacts. Sometimes the intrusion itself has above background gold values. Rock geochemistry values are persistently lower than soils taken in the same area, suggesting that the soils are concentrating minerals relative to the rocks.

BOGG GRID

Results for the Bogg Grid were similar to that of the En Grid. Gold values ranged from < 5 ppb to 595 ppb gold with one rock sample containing 1460 ppb gold. Sixty six of the 131 rock samples had gold values greater than background, generally with adjacent soil values higher than that of the rock.

In the southwestern portion of the grid, both the chlorite and silica altered host rock diorites and the felsic intrusion are mineralized. High

gold values in the intrusion are associated with quartz veins. Mineralization within the host rock is sporadic, with associated silica, chlorite and\or k-spar alteration. Coincident soil geochemistry also blankets this mineralized area.

In the northern portion of the grid, anomalous gold values correspond to intensely altered volcanic rocks with chlorite, k-spar, silica and jasper alteration. A correlation does exist between the rock and soil gold values, but mineralization in the rocks tends to be sporadic and weaker than the adjacent soils. Some of the more isolated gold values occur close to small porphyry dykes and plugs or in zones with abundant quartz stockwork.

In the north central portion of the grid, gold mineralization correlates well with quartz rich sheared volcanic and intrusive rocks. Copper, and to some extent silver, values are also elevated in these rocks. Little recent work has been done in this area, however, Anaconda American Brass and Cities Services Minerals obtained anomalous copper and molybdenum soil and rock results during field work from 1965 to 1975.

10.0 CONCLUSIONS

Based mainly on the results of this year's fieldwork as well as compiled data from previous surveys, several conclusions have been made.

The Bogg Grid is situated over altered island arc volcanics and sediments of intermediate composition. The alteration was caused by a multistaged plutonic event which is also responsible for most of the structural deformation and mineralization.

On the EN Grid, shallow to deep marine sediments constitute over ninety percent of the exposures and were derived by the erosion of the island arcs. Plutonic activity is less apparent, as is the intensity of alteration and structural deformation, than that on the Bogg Grid.

Soil geochemistry on both grids has located large gold soil anomalies. The majority of these do not appear to have been affected by glaciation. The soils may be enriched, however, reflecting values greater then their actual source.

The K-spar porphyry is responsible for the introduction of gold to the system as indicated by the soil and rock geochemical results. More mapping and sampling is required before detailed conclusions can be drawn on the high grade copper/silver ± gold showings.

The Bogg, and to a lesser extent, the Needa properties contain excellent copper-gold porphyry potential based on this and previous year's work.

11.0 STATEMENT OF QUALIFICATION

I, Lorne M. Warner, of 2161 Perryville Place, Kamloops, B.C., do hereby certify that:

1. I graduated from the University of Alberta, Edmonton, Alberta, with a B.Sc degree in Geology in 1985.

2. From 1980 until the present, I have been engaged in studying geology, and/or working in mineral exploration in various regions of British Columbia. I have been continuously employed by Placer Dome Inc. since June 1988.

3. I have supervised and carried out the field work and interpreted the data from the exploration program on the Needa 5-8, 29, 33, 34, Bogg 1-4, 7-20 and CC 1-8 claims, located in the Clinton and Kamloops Mining Districts.

Respectfully submitted,

Lorne M. Warner, B.Sc.

November 17/90
Date

11.2 Statement of Qualification - Kelly Edwards

I, Kelly Edwards, of 207-379B 32nd Street West, Prince Albert, Saskatchewan, do hereby certify that:

1. I graduated from the University of Saskatchewan, Saskatoon, Saskatchewan, with a B.Sc. Honours degree in Geology in 1989.

2. From 1984 to the present, I have been studying and/or working in the field of Geology both in Canada and overseas. I have held various contract positions with Placer Dome Inc. since 1988.

3. I have assisted with the field work and data compilation from the Needa 5-8, 29, 33, 34, and Bogg 1-4, 7-20 claims, located in the Clinton and Kamloops Mining Districts.

Respectfully Submitted,

Kelly Edwards

Kelly Edwards, B.Sc.

December 4, 1990

Date

11.3 Statement of Qualification - Richard W. Cannon

I, Richard W. Cannon, of the City of Vancouver, Province of British Columbia, hereby certify as follows:

1. I am a graduate of the University of British Columbia were I received a B.A. Sc. in Geological Engineering (Geophysics Option) in May, 1966.

2. I am a member of the Association of Professional Engineers of British Columbia and have been so since 1968. Registration No. 6742.

3. I am a member of the Canadian Institute of Mining and Metallurgy, Society of Exploration Geophysicists, and the B.C. Geophysical Society.

4. I have practised my profession since 1966.

5. This report may be used for development of the property, provided that no portion will be used out of context in such a manner as to convey meanings from that set out in the whole.

6. I have reviewed the interim report and concur with the results and recommendations.

Respectfully Submitted,

Kelly Edwards
for
Richard Cannon

R.W. Cannon, P. Eng.

12.0 STATEMENT OF EXPENDITURES

The following table lists the expenditures Placer Dome Inc. has incurred on the Needa Claims from May 14 to November 17, 1990.

Table 2 Statement of Expenditures

Personnel			
Bruno Barde, District Geologist	07days @ $470.00/day	$ 3,290.00	
Lorne Warner, Project Geologist	34days @ $326.50/day	11,101.00	
Kelly Edwards, Geologist	30days @ $239.00/day	7,170.00	
Richard Cannon, Geophysist	09days @ $432.00/day	3,888.00	
Neil Martin, Technician	09days @ $175.00/day	1,575.00	
Scott Knight, Student	15days @ $145.00/day	2,175.00	
Arnd Burgert, Student	26days @ $125.00/day	3,250.00	
Dave Turner, Student	26days @ $145.00/day	3,770.00	
Mark McGinnis, Student	28days @ $125.00/day	3,500.00	
Olive Dodd, Cook	18days @ $140.00/day	2,520.00	
		42,239.00	$ 42,239.00
Camp Operations			
Cabin Rentals & Groceries	184 man days @ $50.00/day	$ 9,200.00	9,200.00
Transportation			
3-4x4 pick-up trucks,130days @ $70.00/day		$ 9,100.00	
Fuel and Oil		1,560.00	
Freight		150.00	10,810.00
Geochemistry			
1762 Soil Samples for 30 element ICP + Au x $14.50		25,549.00	
228 Rock Samples for 30 element ICP + Au x $14.50		3,306.00	28,855.00

continued on next page

Miscellaneous		
ie. Communications, equipment rentals and purchases	$ 4,000.00	4,000.00
Report Preparation		
Compilation and Writing	$ 1,500.00	
Drafting and typing	450.00	
Computer Cost	1,000.00	2,950.00
Total Expenditures		$ 98,054.00

13.0 REFERENCES

Campbell, R.B. and Tipper, H.W., 1971
Geology of Bonaparte Lake Map Area, British Columbia, G.S.C. Memoir 363

Hawkins, G. 1974
Final Report 1974 BOG-FRI-AL Claims, Kamloops Mining Division. Report for Cities Services Mineral Corp.

Pentland, W., (December 1987)
Haida Gold Property, Private Report, Placer Dome Files

Petro, V.A.G., 1970
Geology of the Area Between Cabin Creek and Windy Mountain. Geology, Exploration and Mining, British Columbia; B.C. Department of Mines

Rebagliati, M.D., (January 1989)
Ta Hoola Property Assessment Report

Wells, R.D., (October 1988)
Report on Exploration - Golden Loon Claims Phase II

APPENDIX I

Soil Geochemical Data

with

Statistical Summary and Histograms

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0402	L10400E	9300	67775.10	19720.56	0.10	20.00	91.00	16.00	75.00
0402	L10400E	9325	67763.75	19741.50	0.50	10.00	60.00	13.00	76.00
0402	L10400E	9350	67752.40	19762.43	2.10	2.50	152.00	14.00	140.00
0402	L10400E	9375	67741.05	19783.36	0.40	15.00	14.00	6.00	72.00
0402	L10400E	9400	67729.70	19804.30	0.30	20.00	47.00	7.00	100.00
0402	L10400E	9425	67718.34	19825.23	0.20	2.50	61.00	6.00	100.00
0402	L10400E	9450	67706.98	19846.17	0.30	2.50	74.00	7.00	106.00
0402	L10400E	9475	67695.63	19867.10	0.30	2.50	32.00	11.00	140.00
0402	L10400E	10325	67308.71	20599.26	0.50	2.50	57.00	7.00	186.00
0402	L10400E	10350	67297.29	20621.76	0.50	10.00	78.00	8.00	205.00
0402	L10400E	10375	67285.87	20644.26	0.20	2.50	40.00	6.00	132.00
0402	L10400E	10400	67274.45	20666.77	0.30	5.00	33.00	8.00	117.00
0402	L10400E	10425	67263.02	20689.27	0.30	2.50	32.00	9.00	146.00
0402	L10400E	10450	67251.59	20711.77	0.40	2.50	55.00	8.00	165.00
0402	L10400E	10475	67240.17	20734.28	0.20	5.00	49.00	8.00	126.00
0402	L10400E	10500	67228.75	20756.78	0.40	2.50	37.00	7.00	118.00
0402	L10500E	9300	67899.20	19750.99	0.20	10.00	12.00	8.00	56.00
0402	L10500E	9325	67886.58	19772.46	0.20	20.00	51.00	9.00	74.00
0402	L10500E	9350	67873.96	19793.92	1.40	2.50	101.00	14.00	140.00
0402	L10500E	9375	67861.34	19815.38	0.20	2.50	77.00	6.00	100.00
0402	L10500E	9400	67848.73	19836.85	0.30	10.00	24.00	9.00	151.00
0402	L10500E	9425	67836.12	19858.31	0.30	2.50	39.00	8.00	124.00
0402	L10500E	9450	67823.50	19879.78	0.30	2.50	13.00	8.00	65.00
0402	L10500E	9475	67810.88	19901.24	0.40	2.50	33.00	7.00	110.00
0402	L10500E	9500	67798.27	19922.71	0.60	5.00	23.00	8.00	94.00
0402	L10500E	9525	67785.65	19944.17	0.30	2.50	33.00	8.00	74.00
0402	L10500E	9550	67773.04	19965.64	0.20	10.00	10.00	10.00	83.00
0402	L10500E	9575	67760.42	19987.10	0.20	10.00	28.00	9.00	64.00
0402	L10500E	9600	67747.80	20008.57	0.20	40.00	49.00	13.00	63.00
0402	L10500E	9625	67735.19	20030.03	0.30	100.00	24.00	11.00	100.00
0402	L10500E	9650	67722.57	20051.50	0.20	40.00	78.00	15.00	90.00
0402	L10500E	9675	67709.95	20072.96	0.50	2.50	34.00	11.00	157.00
0402	L10500E	9700	67697.34	20094.42	0.20	5.00	65.00	11.00	86.00
0402	L10500E	9725	67684.73	20115.89	0.50	2.50	17.00	8.00	237.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0402	L10500E	9750	67672.11	20137.35	0.40	2.50	66.00	12.00	240.00
0402	L10500E	9775	67659.49	20158.82	0.50	2.50	26.00	12.00	140.00
0402	L10500E	9825	67634.27	20201.75	0.30	10.00	79.00	11.00	132.00
0402	L10500E	9850	67621.65	20223.21	0.40	5.00	82.00	10.00	107.00
0402	L10500E	9875	67609.03	20244.68	0.50	5.00	44.00	8.00	107.00
0402	L10500E	9900	67596.41	20266.14	0.20	35.00	62.00	9.00	88.00
0402	L10500E	9925	67583.80	20287.61	0.20	2.50	20.00	5.00	56.00
0402	L10500E	9950	67571.19	20309.07	1.20	2.50	57.00	9.00	98.00
0402	L10500E	9975	67558.57	20330.54	0.20	2.50	17.00	7.00	103.00
0402	L10500E	10000	67545.95	20352.00	0.10	2.50	27.00	11.00	88.00
0402	L10500E	10025	67535.06	20374.71	0.20	2.50	37.00	10.00	171.00
0402	L10500E	10050	67524.18	20397.41	0.40	2.50	47.00	11.00	168.00
0402	L10500E	10075	67513.29	20420.12	0.40	2.50	83.00	8.00	185.00
0402	L10500E	10100	67502.41	20442.83	0.40	2.50	43.00	11.00	176.00
0402	L10500E	10125	67491.52	20465.54	0.30	5.00	118.00	8.00	112.00
0402	L10500E	10150	67480.62	20488.24	1.00	2.50	22.00	11.00	127.00
0402	L10500E	10175	67469.74	20510.95	0.30	2.50	68.00	6.00	74.00
0402	L10500E	10200	67458.85	20533.66	0.30	5.00	69.00	10.00	103.00
0402	L10500E	10225	67447.97	20556.36	0.10	2.50	112.00	10.00	145.00
0402	L10500E	10250	67437.08	20579.07	0.30	2.50	48.00	7.00	80.00
0402	L10500E	10275	67426.19	20601.78	0.50	2.50	50.00	9.00	118.00
0402	L10500E	10300	67415.30	20624.48	0.40	2.50	46.00	9.00	88.00
0402	L10500E	10325	67404.41	20647.19	1.00	2.50	37.00	8.00	138.00
0402	L10500E	10350	67393.53	20669.90	0.90	2.50	37.00	7.00	123.00
0402	L10500E	10375	67382.64	20692.61	0.90	2.50	37.00	8.00	128.00
0402	L10500E	10400	67371.75	20715.31	0.40	20.00	69.00	7.00	139.00
0402	L10500E	10425	67360.87	20738.02	0.30	2.50	102.00	9.00	113.00
0402	L10500E	10450	67349.98	20760.73	0.50	2.50	57.00	7.00	97.00
0402	L10500E	10475	67339.09	20783.43	0.10	2.50	91.00	11.00	94.00
0402	L10500E	10500	67328.20	20806.14	0.60	2.50	63.00	8.00	130.00
0402	L10600E	9300	67965.38	19813.50	0.20	2.50	15.00	9.00	156.00
0402	L10600E	9325	67953.64	19834.35	0.50	10.00	25.00	9.00	115.00
0402	L10600E	9350	67941.90	19855.20	0.10	2.50	36.00	10.00	58.00
0402	L10600E	9375	67930.16	19876.05	0.50	2.50	58.00	8.00	74.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	GRID COORDINATES NORTH	UTM COORDINATES EAST	UTM COORDINATES NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0402	L10600E	9400	67918.41	19896.90	0.40	2.50	111.00	8.00	92.00
0402	L10600E	9425	67906.67	19917.75	0.20	2.50	49.00	11.00	80.00
0402	L10600E	9450	67894.93	19938.60	0.40	2.50	34.00	9.00	109.00
0402	L10600E	9475	67883.18	19959.46	0.30	2.50	41.00	9.00	85.00
0402	L10600E	10325	67491.05	20686.65	0.30	2.50	13.00	7.00	64.00
0402	L10600E	10350	67479.85	20708.91	0.40	2.50	53.00	8.00	139.00
0402	L10600E	10375	67468.66	20731.16	0.40	200.00	140.00	8.00	153.00
0402	L10600E	10400	67457.47	20753.42	0.30	2.50	19.00	6.00	64.00
0402	L10600E	10425	67446.27	20775.67	0.30	2.50	20.00	5.00	44.00
0402	L10600E	10450	67435.08	20797.93	1.00	2.50	29.00	9.00	132.00
0402	L10600E	10475	67423.88	20820.18	2.00	2.50	34.00	11.00	143.00
0402	L10600E	10500	67412.69	20842.44	0.60	2.50	31.00	10.00	150.00
0402	L10700E	9300	68067.02	19863.34	0.20	10.00	10.00	7.00	58.00
0402	L10700E	9325	68054.82	19883.96	0.20	2.50	25.00	10.00	132.00
0402	L10700E	9350	68042.62	19904.58	0.50	2.50	28.00	14.00	240.00
0402	L10700E	9375	68030.41	19925.20	0.30	30.00	40.00	11.00	62.00
0402	L10700E	9400	68018.21	19945.82	0.30	5.00	24.00	11.00	98.00
0402	L10700E	9425	68006.01	19966.44	0.20	2.50	24.00	9.00	52.00
0402	L10700E	9450	67993.80	19987.06	0.40	10.00	40.00	13.00	95.00
0402	L10700E	9475	67981.60	20007.68	0.30	25.00	37.00	11.00	108.00
0402	L10700E	9500	67969.40	20028.30	0.80	10.00	118.00	15.00	60.00
0402	L10700E	9525	67957.20	20048.92	0.20	2.50	41.00	10.00	68.00
0402	L10700E	9550	67945.00	20069.54	0.20	2.50	48.00	8.00	63.00
0402	L10700E	9575	67932.80	20090.16	0.30	2.50	32.00	9.00	74.00
0402	L10700E	9600	67920.59	20110.79	0.30	2.50	28.00	8.00	81.00
0402	L10700E	9625	67908.39	20131.40	0.70	2.50	49.00	13.00	145.00
0402	L10700E	9650	67896.19	20152.03	0.60	25.00	59.00	5.00	90.00
0402	L10700E	9675	67883.98	20172.64	0.30	15.00	28.00	7.00	165.00
0402	L10700E	9700	67871.78	20193.27	0.40	2.50	34.00	12.00	143.00
0402	L10700E	9725	67859.58	20213.89	0.20	2.50	26.00	11.00	102.00
0402	L10700E	9750	67847.38	20234.51	0.10	2.50	30.00	10.00	52.00
0402	L10700E	9775	67835.17	20255.13	0.50	2.50	40.00	11.00	130.00
0402	L10700E	9800	67822.97	20275.75	0.40	2.50	28.00	11.00	59.00
0402	L10700E	9825	67810.77	20296.37	0.30	15.00	75.00	16.00	71.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0402	L10700E	9850	67798.57	20316.99	0.20	15.00	77.00	17.00	64.00
0402	L10700E	9875	67786.37	20337.61	22.00	630.00	376.00	43.00	200.00
0402	L10700E	9900	67774.16	20358.23	0.80	2.50	89.00	12.00	129.00
0402	L10700E	9925	67761.96	20378.85	0.60	2.50	70.00	11.00	152.00
0402	L10700E	9950	67749.76	20399.47	0.70	2.50	46.00	7.00	182.00
0402	L10700E	9975	67737.55	20420.09	0.60	2.50	76.00	19.00	205.00
0402	L10700E	10000	67725.35	20440.71	0.30	25.00	35.00	11.00	104.00
0402	L10700E	10025	67714.73	20463.27	0.50	2.50	83.00	13.00	192.00
0402	L10700E	10050	67704.09	20485.82	0.50	2.50	70.00	11.00	256.00
0402	L10700E	10075	67693.47	20508.38	0.40	2.50	60.00	8.00	127.00
0402	L10700E	10100	67682.84	20530.93	0.70	2.50	29.00	11.00	271.00
0402	L10700E	10125	67672.21	20553.49	0.20	2.50	31.00	7.00	92.00
0402	L10700E	10150	67661.58	20576.04	0.40	10.00	53.00	8.00	122.00
0402	L10700E	10175	67650.95	20598.60	0.70	2.50	14.00	7.00	172.00
0402	L10700E	10200	67640.32	20621.15	0.40	2.50	21.00	9.00	154.00
0402	L10700E	10225	67629.70	20643.71	0.30	2.50	49.00	8.00	114.00
0402	L10700E	10250	67619.06	20666.26	0.20	2.50	17.00	7.00	57.00
0402	L10700E	10275	67608.44	20688.82	0.70	2.50	29.00	10.00	242.00
0402	L10700E	10300	67597.81	20711.37	0.20	2.50	76.00	8.00	135.00
0402	L10700E	10325	67587.18	20733.93	0.30	10.00	56.00	6.00	145.00
0402	L10700E	10350	67576.55	20756.48	0.20	25.00	58.00	6.00	162.00
0402	L10700E	10375	67565.92	20779.04	0.20	2.50	34.00	7.00	98.00
0402	L10700E	10400	67555.30	20801.59	0.50	2.50	41.00	8.00	120.00
0402	L10700E	10425	67544.66	20824.15	0.20	2.50	56.00	7.00	116.00
0402	L10700E	10450	67534.04	20846.70	0.20	2.50	32.00	5.00	80.00
0402	L10700E	10475	67523.41	20869.26	0.40	2.50	32.00	9.00	154.00
0402	L10700E	10500	67512.78	20891.81	0.60	2.50	34.00	13.00	195.00
0402	L10800E	9300	68175.10	19898.80	0.30	2.50	32.00	11.00	77.00
0402	L10800E	9325	68162.26	19919.79	0.70	2.50	63.00	17.00	102.00
0402	L10800E	9350	68149.41	19940.79	0.60	35.00	45.00	11.00	118.00
0402	L10800E	9375	68136.55	19961.78	0.40	2.50	27.00	10.00	126.00
0402	L10800E	9400	68123.71	19982.78	0.50	2.50	16.00	9.00	155.00
0402	L10800E	9425	68110.86	20003.77	0.40	2.50	24.00	12.00	200.00
0402	L10800E	9450	68098.01	20024.77	0.30	2.50	74.00	17.00	100.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0402	L10800E	9475	68085.16	20045.76	0.40	2.50	45.00	14.00	170.00
0402	L10800E	10325	67667.21	20780.04	0.80	2.50	38.00	9.00	147.00
0402	L10800E	10350	67655.82	20802.61	0.20	2.50	68.00	9.00	90.00
0402	L10800E	10375	67644.43	20825.18	0.60	2.50	24.00	10.00	131.00
0402	L10800E	10400	67633.03	20847.75	0.40	2.50	84.00	10.00	151.00
0402	L10800E	10425	67621.64	20870.32	0.80	2.50	70.00	8.00	162.00
0402	L10800E	10450	67610.25	20892.88	0.60	2.50	49.00	11.00	223.00
0402	L10800E	10475	67598.85	20915.45	0.60	2.50	76.00	14.00	265.00
0402	L10800E	10500	67587.46	20938.02	0.50	2.50	47.00	9.00	141.00
0402	L10900E	9300	68275.28	19923.22	1.10	2.50	84.00	15.00	284.00
0402	L10900E	9325	68262.05	19944.94	0.30	2.50	25.00	12.00	106.00
0402	L10900E	9350	68248.81	19966.66	1.30	2.50	44.00	18.00	141.00
0402	L10900E	9375	68235.58	19988.38	0.40	2.50	13.00	12.00	133.00
0402	L10900E	9400	68222.34	20010.10	0.80	2.50	21.00	11.00	157.00
0402	L10900E	9425	68209.11	20031.81	0.40	2.50	34.00	12.00	258.00
0402	L10900E	9450	68195.88	20053.53	0.30	2.50	15.00	10.00	126.00
0402	L10900E	9475	68182.64	20075.25	1.10	15.00	80.00	14.00	108.00
0402	L10900E	9500	68169.41	20096.97	0.50	2.50	43.00	13.00	296.00
0402	L10900E	9525	68156.16	20118.69	0.50	2.50	39.00	12.00	203.00
0402	L10900E	9550	68142.93	20140.40	0.60	2.50	52.00	8.00	100.00
0402	L10900E	9575	68129.70	20162.12	0.50	2.50	31.00	11.00	105.00
0402	L10900E	9625	68103.23	20205.56	0.10	10.00	63.00	16.00	70.00
0402	L10900E	9650	68089.99	20227.28	0.10	2.50	51.00	13.00	66.00
0402	L10900E	9675	68076.76	20249.00	0.70	2.50	38.00	12.00	77.00
0402	L10900E	9700	68063.52	20270.71	0.10	50.00	44.00	10.00	61.00
0402	L10900E	9725	68050.29	20292.43	0.40	2.50	32.00	11.00	73.00
0402	L10900E	9750	68037.05	20314.15	0.30	2.50	46.00	9.00	100.00
0402	L10900E	9775	68023.82	20335.87	0.30	2.50	45.00	14.00	104.00
0402	L10900E	9800	68010.59	20357.59	0.30	45.00	37.00	10.00	71.00
0522	L10900E	9825	67997.35	20379.30	0.20	40.00	81.00	14.00	100.00
0402	L10900E	9850	67984.11	20401.02	0.30	35.00	24.00	10.00	52.00
0402	L10900E	9875	67970.88	20422.74	3.00	35.00	218.00	23.00	108.00
0402	L10900E	9900	67957.64	20444.46	0.30	2.50	38.00	7.00	58.00
0402	L10900E	9925	67944.41	20466.18	0.40	2.50	38.00	9.00	67.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0402	L10900E	9950	67931.17	20487.89	0.30	2.50	15.00	12.00	90.00
0402	L10900E	9975	67917.94	20509.61	0.40	5.00	22.00	7.00	105.00
0402	L10900E	10000	67904.70	20531.33	0.50	2.50	21.00	9.00	152.00
0402	L10900E	10025	67893.47	20554.03	0.20	20.00	26.00	13.00	128.00
0402	L10900E	10050	67882.23	20576.73	0.20	2.50	35.00	11.00	152.00
0402	L10900E	10075	67870.99	20599.43	0.20	2.50	9.00	4.00	55.00
0402	L10900E	10100	67859.75	20622.12	0.60	2.50	24.00	9.00	133.00
0402	L10900E	10125	67848.52	20644.82	0.60	15.00	36.00	11.00	183.00
0402	L10900E	10150	67837.28	20667.52	0.80	2.50	29.00	12.00	220.00
0402	L10900E	10175	67826.04	20690.22	0.50	30.00	34.00	7.00	110.00
0402	L10900E	10200	67814.80	20712.92	0.60	2.50	26.00	8.00	130.00
0402	L10900E	10225	67803.56	20735.62	0.60	10.00	58.00	7.00	160.00
0402	L10900E	10250	67792.33	20758.32	0.50	2.50	29.00	8.00	277.00
0402	L10900E	10275	67781.09	20781.01	0.40	2.50	36.00	7.00	145.00
0402	L10900E	10300	67769.85	20803.71	0.30	2.50	12.00	7.00	100.00
0402	L10900E	10325	67758.62	20826.41	0.30	2.50	36.00	6.00	63.00
0402	L10900E	10350	67747.38	20849.11	0.20	2.50	22.00	10.00	82.00
0402	L10900E	10375	67736.14	20871.81	0.20	2.50	14.00	6.00	48.00
0402	L10900E	10400	67724.91	20894.51	0.40	2.50	27.00	8.00	130.00
0402	L10900E	10425	67713.66	20917.21	0.20	2.50	24.00	9.00	113.00
0402	L10900E	10450	67702.43	20939.90	0.50	2.50	16.00	10.00	75.00
0402	L10900E	10475	67691.19	20962.60	0.20	2.50	42.00	8.00	100.00
0402	L10900E	10500	67679.95	20985.30	0.50	2.50	39.00	9.00	127.00
0402	L11000E	9300	68346.00	19945.52	0.80	2.50	34.00	14.00	110.00
0402	L11000E	9325	68333.43	19968.06	0.40	2.50	68.00	14.00	90.00
0402	L11000E	9350	68320.86	19990.60	1.10	2.50	100.00	12.00	90.00
0402	L11000E	9375	68308.29	20013.14	0.10	2.50	20.00	8.00	84.00
0402	L11000E	9400	68295.72	20035.68	0.50	2.50	58.00	12.00	153.00
0402	L11000E	9425	68283.15	20058.22	0.30	2.50	59.00	8.00	100.00
0402	L11000E	9450	68270.59	20080.76	0.60	2.50	38.00	12.00	147.00
0402	L11000E	9475	68258.02	20103.30	0.40	2.50	47.00	12.00	164.00
0402	L11000E	10325	67842.27	20868.28	0.10	2.50	25.00	12.00	84.00
0402	L11000E	10350	67830.59	20890.71	0.10	2.50	27.00	10.00	83.00
0402	L11000E	10375	67818.91	20913.15	0.20	2.50	30.00	11.00	136.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0402	L11000E	10400	67807.23	20935.58	0.20	2.50	30.00	12.00	158.00
0402	L11000E	10425	67795.55	20958.02	0.20	2.50	36.00	11.00	145.00
0402	L11000E	10450	67783.88	20980.45	0.10	2.50	23.00	11.00	85.00
0402	L11000E	10475	67772.20	21002.89	0.10	2.50	15.00	12.00	192.00
0402	L11000E	10500	67760.52	21025.32	0.10	2.50	61.00	11.00	68.00
0402	L11100E	9300	68436.23	19990.99	1.00	2.50	64.00	13.00	205.00
0402	L11100E	9325	68423.54	20013.46	0.10	2.50	16.00	10.00	110.00
0402	L11100E	9350	68410.85	20035.92	0.10	2.50	29.00	8.00	128.00
0402	L11100E	9375	68398.16	20058.38	0.10	2.50	17.00	12.00	237.00
0402	L11100E	9400	68385.47	20080.85	0.10	2.50	31.00	12.00	173.00
0402	L11100E	9450	68360.09	20125.77	0.10	2.50	30.00	11.00	196.00
0402	L11100E	9475	68347.41	20148.24	0.10	2.50	26.00	9.00	163.00
0402	L11100E	9500	68334.71	20170.70	0.40	2.50	46.00	12.00	202.00
0402	L11100E	9525	68322.02	20193.16	0.20	2.50	13.00	6.00	127.00
0402	L11100E	9550	68309.34	20215.63	0.20	2.50	24.00	12.00	307.00
0402	L11100E	9575	68296.65	20238.09	0.40	2.50	37.00	12.00	274.00
0402	L11100E	9600	68283.95	20260.55	0.10	2.50	13.00	8.00	64.00
0402	L11100E	9625	68271.27	20283.02	0.20	2.50	6.00	8.00	81.00
0402	L11100E	9650	68258.58	20305.48	0.70	2.50	42.00	11.00	112.00
0402	L11100E	9675	68245.89	20327.95	0.30	2.50	37.00	7.00	100.00
0402	L11100E	9700	68233.20	20350.41	0.70	2.50	34.00	11.00	175.00
0402	L11100E	9725	68220.51	20372.87	0.40	2.50	45.00	9.00	163.00
0402	L11100E	9750	68207.82	20395.34	0.50	2.50	22.00	12.00	140.00
0402	L11100E	9775	68195.12	20417.80	0.60	2.50	24.00	7.00	89.00
0402	L11100E	9800	68182.44	20440.26	0.30	2.50	38.00	7.00	104.00
0402	L11100E	9825	68169.75	20462.73	0.50	15.00	35.00	10.00	82.00
0402	L11100E	9850	68157.06	20485.19	0.60	2.50	22.00	8.00	87.00
0402	L11100E	9875	68144.37	20507.65	1.40	2.50	36.00	10.00	162.00
0402	L11100E	9900	68131.68	20530.12	0.50	2.50	36.00	10.00	163.00
0402	L11100E	9925	68118.99	20552.58	1.00	2.50	108.00	17.00	140.00
0402	L11100E	9950	68106.30	20575.04	1.80	10.00	41.00	9.00	70.00
0402	L11100E	9975	68093.61	20597.51	0.20	2.50	40.00	9.00	70.00
0402	L11100E	10000	68080.92	20619.97	0.40	2.50	64.00	7.00	109.00
0402	L11100E	10025	68068.14	20641.87	0.10	2.50	27.00	5.00	71.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0402	L11100E	10050	68055.37	20663.77	0.50	15.00	47.00	7.00	116.00
0402	L11100E	10075	68042.59	20685.67	0.20	20.00	84.00	12.00	151.00
0402	L11100E	10100	68029.80	20707.57	0.10	10.00	17.00	8.00	90.00
0402	L11100E	10125	68017.03	20729.47	0.20	30.00	31.00	8.00	97.00
0402	L11100E	10150	68004.25	20751.37	0.80	220.00	127.00	9.00	76.00
0402	L11100E	10175	67991.47	20773.27	0.10	300.00	31.00	9.00	85.00
0402	L11100E	10200	67978.69	20795.17	0.10	2.50	12.00	6.00	84.00
0402	L11100E	10225	67965.91	20817.07	0.20	2.50	9.00	8.00	106.00
0402	L11100E	10250	67953.13	20838.97	0.20	2.50	26.00	8.00	121.00
0402	L11100E	10275	67940.35	20860.87	0.20	20.00	25.00	9.00	53.00
0402	L11100E	10300	67927.58	20882.77	0.10	5.00	21.00	8.00	136.00
0402	L11100E	10325	67914.80	20904.67	0.10	50.00	42.00	7.00	120.00
0402	L11100E	10350	67902.02	20926.57	0.30	2.50	22.00	9.00	125.00
0402	L11100E	10375	67889.23	20948.47	0.30	5.00	34.00	9.00	112.00
0402	L11100E	10400	67876.46	20970.37	0.20	2.50	18.00	7.00	52.00
0402	L11100E	10425	67863.68	20992.27	0.10	2.50	14.00	9.00	96.00
0402	L11100E	10450	67850.90	21014.17	0.20	2.50	21.00	7.00	88.00
0402	L11100E	10475	67838.12	21036.07	0.30	2.50	22.00	8.00	100.00
0402	L11100E	10500	67825.34	21057.97	0.10	2.50	42.00	7.00	100.00
0402	L11200E	9300	68498.38	20026.76	0.20	50.00	73.00	26.00	190.00
0402	L11200E	9325	68486.66	20049.56	0.20	15.00	84.00	14.00	140.00
0402	L11200E	9350	68474.94	20072.37	0.20	2.50	33.00	12.00	254.00
0402	L11200E	9375	68463.22	20095.17	0.10	2.50	31.00	11.00	218.00
0402	L11200E	9400	68451.50	20117.98	0.10	2.50	48.00	12.00	200.00
0402	L11200E	9425	68439.78	20140.78	0.10	2.50	61.00	11.00	132.00
0402	L11200E	9450	68428.07	20163.58	0.90	2.50	102.00	18.00	152.00
0402	L11200E	9475	68416.35	20186.39	0.10	2.50	37.00	11.00	95.00
0402	L11200E	10325	68024.31	20955.41	0.10	2.50	20.00	5.00	46.00
0402	L11200E	10350	68013.09	20977.73	0.20	2.50	26.00	10.00	162.00
0402	L11200E	10375	68001.86	21000.05	0.50	2.50	32.00	11.00	104.00
0402	L11200E	10400	67990.63	21022.37	0.20	2.50	55.00	9.00	86.00
0402	L11200E	10425	67979.41	21044.69	0.30	2.50	35.00	9.00	185.00
0402	L11200E	10450	67968.17	21067.00	0.10	2.50	11.00	5.00	54.00
0402	L11200E	10475	67956.95	21089.32	0.10	2.50	13.00	7.00	48.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	GRID COORDINATES NORTH	UTM COORDINATES EAST	UTM COORDINATES NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0402	L11200E	10500	67945.72	21111.64	0.20	2.50	18.00	12.00	124.00
0402	L11300E	9300	68558.09	20050.16	0.40	5.00	163.00	42.00	272.00
0402	L11300E	9325	68547.43	20073.74	0.50	2.50	26.00	13.00	308.00
0402	L11300E	9350	68536.77	20097.33	0.60	2.50	33.00	11.00	174.00
0402	L11300E	9375	68526.12	20120.92	0.20	2.50	12.00	8.00	113.00
0402	L11300E	9400	68515.45	20144.50	0.50	2.50	64.00	15.00	193.00
0402	L11300E	9425	68504.80	20168.09	0.40	2.50	32.00	9.00	213.00
0402	L11300E	9450	68494.14	20191.67	0.30	2.50	43.00	11.00	251.00
0402	L11300E	9475	68483.48	20215.26	0.70	10.00	45.00	9.00	174.00
0402	L11300E	9500	68472.82	20238.85	0.40	2.50	39.00	11.00	182.00
0402	L11300E	9525	68462.16	20262.43	0.20	2.50	56.00	17.00	150.00
0402	L11300E	9550	68451.50	20286.02	0.40	10.00	34.00	16.00	110.00
0402	L11300E	9575	68440.84	20309.61	0.30	30.00	79.00	15.00	86.00
0402	L11300E	9600	68430.19	20333.19	0.20	2.50	30.00	9.00	51.00
0402	L11300E	9625	68419.52	20356.78	0.10	2.50	37.00	13.00	65.00
0402	L11300E	9650	68408.87	20380.36	0.20	110.00	35.00	11.00	71.00
0402	L11300E	9675	68398.20	20403.95	0.10	2.50	17.00	7.00	52.00
0402	L11300E	9700	68387.55	20427.54	1.00	2.50	34.00	8.00	73.00
0402	L11300E	9725	68376.89	20451.12	0.40	2.50	57.00	10.00	75.00
0402	L11300E	9750	68366.23	20474.71	0.30	15.00	31.00	7.00	55.00
0402	L11300E	9775	68355.57	20498.29	0.30	2.50	33.00	10.00	82.00
0402	L11300E	9800	68344.91	20521.88	0.10	60.00	73.00	13.00	69.00
0402	L11300E	9825	68334.25	20545.47	0.30	2.50	40.00	10.00	66.00
0402	L11300E	9850	68323.59	20569.05	0.30	15.00	50.00	10.00	85.00
0402	L11300E	9875	68312.94	20592.64	0.40	30.00	21.00	5.00	51.00
0402	L11300E	9900	68302.27	20616.23	1.10	10.00	50.00	10.00	167.00
0402	L11300E	9925	68291.62	20639.81	0.20	30.00	18.00	8.00	59.00
0402	L11300E	9950	68280.96	20663.40	0.40	80.00	40.00	9.00	157.00
0402	L11300E	9975	68270.30	20686.98	0.50	10.00	73.00	12.00	233.00
0402	L11300E	10000	68259.64	20710.57	0.80	125.00	98.00	17.00	157.00
0402	L11300E	10025	68248.31	20732.98	0.40	175.00	82.00	9.00	100.00
0402	L11300E	10050	68236.98	20755.39	0.30	435.00	47.00	8.00	81.00
0402	L11300E	10075	68225.66	20777.80	0.30	850.00	44.00	10.00	136.00
0402	L11300E	10100	68214.34	20800.21	0.30	65.00	70.00	14.00	142.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0402	L11300E	10125	68203.01	20822.62	0.10	15.00	50.00	13.00	79.00
0402	L11300E	10150	68191.69	20845.04	0.10	2.50	16.00	6.00	60.00
0402	L11300E	10175	68180.36	20867.45	0.20	2.50	22.00	9.00	141.00
0402	L11300E	10200	68169.03	20889.86	0.20	15.00	31.00	9.00	98.00
0402	L11300E	10225	68157.70	20912.27	0.10	2.50	15.00	7.00	103.00
0402	L11300E	10250	68146.38	20934.68	0.30	2.50	17.00	9.00	113.00
0402	L11300E	10275	68135.05	20957.09	0.20	2.50	23.00	8.00	104.00
0402	L11300E	10300	68123.73	20979.50	0.10	5.00	24.00	8.00	80.00
0402	L11300E	10325	68112.40	21001.91	0.20	2.50	32.00	11.00	160.00
0402	L11300E	10350	68101.08	21024.32	0.30	2.50	16.00	11.00	104.00
0402	L11300E	10375	68089.75	21046.73	0.20	15.00	31.00	10.00	126.00
0402	L11300E	10400	68078.42	21069.14	0.40	20.00	31.00	9.00	128.00
0402	L11300E	10425	68067.09	21091.56	0.50	10.00	32.00	11.00	186.00
0402	L11300E	10450	68055.77	21113.97	0.30	2.50	30.00	10.00	92.00
0402	L11300E	10475	68044.45	21136.38	0.50	2.50	19.00	11.00	95.00
0402	L11300E	10500	68033.12	21158.79	0.40	2.50	27.00	11.00	71.00
0402	L11400E	9300	68679.18	20090.81	0.50	15.00	44.00	10.00	131.00
0402	L11400E	9325	68667.36	20114.54	0.60	2.50	114.00	26.00	133.00
0402	L11400E	9350	68655.55	20138.27	0.40	50.00	65.00	20.00	106.00
0402	L11400E	9375	68643.73	20162.00	0.30	35.00	43.00	10.00	105.00
0402	L11400E	9400	68631.91	20185.73	0.10	2.50	20.00	8.00	131.00
0402	L11400E	9425	68620.10	20209.46	0.40	10.00	73.00	17.00	98.00
0402	L11400E	9450	68608.29	20233.19	0.30	2.50	86.00	13.00	218.00
0402	L11400E	9475	68596.48	20256.92	0.20	2.50	48.00	8.00	83.00
0402	L11400E	10325	68194.64	21041.05	0.20	2.50	48.00	10.00	109.00
0402	L11400E	10350	68182.82	21063.04	0.10	20.00	74.00	15.00	131.00
0402	L11400E	10375	68170.99	21085.03	0.40	2.50	41.00	14.00	342.00
0402	L11400E	10400	68159.16	21107.02	0.20	10.00	29.00	11.00	118.00
0402	L11400E	10425	68147.34	21129.00	0.20	30.00	38.00	11.00	352.00
0402	L11400E	10450	68135.52	21150.99	0.10	2.50	24.00	7.00	65.00
0402	L11400E	10475	68123.70	21172.97	0.10	20.00	29.00	8.00	187.00
0402	L11400E	10500	68111.87	21194.96	0.20	2.50	39.00	12.00	125.00
0367	L11500E	9300	68763.80	20129.75	0.40	2.50	120.00	20.00	158.00
0367	L11500E	9325	68752.20	20153.76	0.10	285.00	84.00	12.00	94.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0367	L11500E	9350	68740.59	20177.76	0.10	2.50	11.00	5.00	54.00
0367	L11500E	9375	68728.99	20201.76	0.20	2.50	30.00	11.00	110.00
0367	L11500E	9400	68717.39	20225.77	0.30	2.50	19.00	7.00	87.00
0367	L11500E	9425	68705.79	20249.77	0.40	2.50	46.00	10.00	79.00
0367	L11500E	9450	68694.19	20273.77	0.10	2.50	4.00	3.00	25.00
0367	L11500E	9475	68682.59	20297.77	0.20	2.50	18.00	6.00	80.00
0367	L11500E	9500	68670.98	20321.78	0.20	25.00	15.00	8.00	43.00
0367	L11500E	9525	68659.39	20345.78	0.30	2.50	65.00	14.00	96.00
0367	L11500E	9550	68647.79	20369.78	0.10	30.00	18.00	10.00	108.00
0367	L11500E	9575	68636.19	20393.78	0.20	2.50	54.00	17.00	148.00
0367	L11500E	9600	68624.59	20417.79	0.30	2.50	9.00	13.00	92.00
0367	L11500E	9625	68612.98	20441.79	0.10	100.00	15.00	8.00	58.00
0367	L11500E	9650	68601.38	20465.79	0.20	2.50	61.00	13.00	77.00
0367	L11500E	9675	68589.78	20489.79	0.30	2.50	48.00	11.00	71.00
0367	L11500E	9700	68578.18	20513.80	0.20	2.50	66.00	13.00	96.00
0367	L11500E	9725	68566.58	20537.80	0.30	2.50	70.00	15.00	99.00
0367	L11500E	9750	68554.98	20561.80	0.20	2.50	12.00	9.00	30.00
0367	L11500E	9775	68543.38	20585.81	0.40	2.50	30.00	12.00	137.00
0367	L11500E	9800	68531.77	20609.81	0.20	2.50	15.00	10.00	59.00
0367	L11500E	9825	68520.17	20633.81	0.30	2.50	41.00	12.00	81.00
0367	L11500E	9850	68508.58	20657.81	0.30	2.50	43.00	11.00	67.00
0367	L11500E	9900	68485.38	20705.82	0.20	2.50	42.00	12.00	95.00
0367	L11500E	9975	68450.57	20777.83	0.20	2.50	17.00	10.00	68.00
0367	L11500E	10000	68438.97	20801.83	0.20	75.00	49.00	10.00	97.00
0367	L11500E	10025	68427.68	20823.99	0.40	15.00	91.00	10.00	91.00
0367	L11500E	10050	68416.39	20846.15	0.50	30.00	123.00	12.00	89.00
0367	L11500E	10075	68405.11	20868.30	0.20	150.00	85.00	10.00	84.00
0367	L11500E	10100	68393.82	20890.46	0.40	110.00	70.00	13.00	106.00
0367	L11500E	10125	68382.53	20912.62	0.20	55.00	38.00	11.00	116.00
0367	L11500E	10150	68371.24	20934.78	0.10	25.00	16.00	10.00	63.00
0367	L11500E	10175	68359.95	20956.94	0.20	20.00	23.00	9.00	93.00
0367	L11500E	10200	68348.67	20979.09	0.40	30.00	61.00	13.00	132.00
0367	L11500E	10225	68337.38	21001.25	0.20	15.00	45.00	8.00	102.00
0367	L11500E	10250	68326.09	21023.41	0.20	2.50	17.00	9.00	98.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0367	L11500E	10275	68314.80	21045.57	0.30	20.00	62.00	13.00	101.00
0367	L11500E	10300	68303.52	21067.73	0.20	90.00	40.00	13.00	107.00
0367	L11500E	10325	68292.23	21089.88	0.20	2.50	62.00	13.00	96.00
0367	L11500E	10350	68280.95	21112.04	0.30	2.50	137.00	20.00	84.00
0367	L11500E	10375	68269.66	21134.20	0.20	2.50	19.00	8.00	56.00
0367	L11500E	10400	68258.37	21156.36	0.40	15.00	70.00	11.00	165.00
0367	L11500E	10425	68247.08	21178.52	0.20	487.00	28.00	10.00	70.00
0367	L11500E	10450	68235.80	21200.67	0.20	2.50	36.00	11.00	133.00
0367	L11500E	10475	68224.51	21222.83	0.30	2.50	20.00	10.00	142.00
0367	L11500E	10500	68213.22	21244.99	0.10	85.00	29.00	9.00	102.00
0367	L11600E	9500	68744.63	20399.93	0.20	10.00	79.00	10.00	106.00
0367	L11600E	9525	68733.76	20422.26	0.10	2.50	43.00	9.00	103.00
0367	L11600E	9550	68722.88	20444.58	0.30	2.50	39.00	13.00	130.00
0367	L11600E	9575	68712.00	20466.91	0.10	2.50	23.00	7.00	80.00
0367	L11600E	9600	68701.12	20489.24	0.10	2.50	8.00	3.00	27.00
0367	L11600E	9625	68690.24	20511.56	0.10	65.00	19.00	9.00	106.00
0367	L11600E	9650	68679.37	20533.89	0.10	2.50	35.00	12.00	123.00
0367	L11600E	9675	68668.48	20556.21	0.20	2.50	30.00	12.00	128.00
0367	L11600E	9700	68657.61	20578.54	0.10	2.50	22.00	8.00	62.00
0367	L11600E	9725	68646.73	20600.87	0.10	2.50	18.00	10.00	89.00
0367	L11600E	9750	68635.85	20623.20	0.40	2.50	13.00	11.00	62.00
0367	L11600E	9775	68624.98	20645.52	0.30	2.50	12.00	15.00	83.00
0367	L11600E	9800	68614.09	20667.85	0.80	30.00	50.00	17.00	66.00
0367	L11600E	9825	68603.22	20690.18	0.30	2.50	28.00	14.00	108.00
0367	L11600E	9850	68592.34	20712.50	0.30	15.00	52.00	10.00	90.00
0367	L11600E	9875	68581.46	20734.83	0.30	230.00	34.00	19.00	75.00
0367	L11600E	9900	68570.59	20757.15	0.30	2.50	36.00	15.00	102.00
0367	L11600E	9925	68559.70	20779.48	0.70	2.50	34.00	16.00	107.00
0367	L11600E	9950	68548.83	20801.81	0.10	2.50	18.00	10.00	53.00
0367	L11600E	9975	68537.95	20824.13	0.10	20.00	22.00	8.00	78.00
0367	L11600E	10000	68527.07	20846.46	0.10	5.00	23.00	9.00	86.00
0367	L11600E	10025	68516.79	20869.09	0.10	15.00	61.00	10.00	92.00
0367	L11600E	10050	68506.51	20891.71	0.20	2.50	35.00	11.00	75.00
0367	L11600E	10075	68496.23	20914.34	0.20	15.00	38.00	7.00	102.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0367	L11600E	10100	68485.95	20936.97	0.40	375.00	29.00	9.00	140.00
0367	L11600E	10125	68475.67	20959.60	0.20	5.00	50.00	6.00	94.00
0367	L11600E	10150	68465.39	20982.22	0.40	20.00	25.00	13.00	175.00
0367	L11600E	10175	68455.11	21004.85	0.60	425.00	122.00	16.00	86.00
0367	L11600E	10200	68444.84	21027.48	0.60	645.00	100.00	14.00	90.00
0367	L11600E	10225	68434.55	21050.10	0.20	2.50	19.00	11.00	125.00
0367	L11600E	10250	68424.27	21072.73	0.10	30.00	33.00	10.00	126.00
0367	L11600E	10275	68413.99	21095.36	0.10	2.50	51.00	13.00	490.00
0367	L11600E	10300	68403.71	21117.98	0.30	10.00	28.00	9.00	158.00
0367	L11600E	10325	68393.44	21140.61	0.10	5.00	25.00	9.00	87.00
0367	L11600E	10350	68383.16	21163.24	0.10	60.00	30.00	11.00	85.00
0367	L11600E	10375	68372.88	21185.87	1.00	100.00	35.00	12.00	124.00
0367	L11600E	10400	68362.59	21208.49	0.30	2.50	34.00	11.00	135.00
0367	L11600E	10425	68352.31	21231.12	0.20	2.50	44.00	14.00	159.00
0367	L11600E	10450	68342.04	21253.75	0.10	10.00	50.00	10.00	97.00
0367	L11600E	10475	68331.76	21276.37	0.70	2.50	39.00	12.00	177.00
0367	L11600E	10500	68321.48	21299.00	0.30	2.50	11.00	11.00	79.00
0404	L11700E	8500	69284.28	19556.35	0.50	45.00	51.00	11.00	118.00
0404	L11700E	8550	69262.06	19600.87	0.40	10.00	48.00	12.00	108.00
0404	L11700E	8600	69239.84	19645.38	0.20	2.50	50.00	11.00	80.00
0404	L11700E	8650	69217.63	19689.89	0.10	25.00	68.00	10.00	82.00
0404	L11700E	8700	69195.41	19734.41	0.40	80.00	57.00	11.00	107.00
0404	L11700E	8750	69173.19	19778.93	0.30	50.00	34.00	10.00	111.00
0404	L11700E	8800	69150.97	19823.44	0.30	40.00	36.00	9.00	115.00
0404	L11700E	8850	69128.75	19867.96	0.20	5.00	15.00	5.00	64.00
0404	L11700E	8900	69106.53	19912.47	0.10	2.50	33.00	9.00	100.00
0404	L11700E	8950	69084.31	19956.98	0.30	25.00	77.00	17.00	174.00
0404	L11700E	9000	69062.09	20001.50	0.40	10.00	34.00	10.00	220.00
0404	L11700E	9050	69039.88	20046.02	0.20	15.00	50.00	11.00	160.00
0404	L11700E	9100	69017.66	20090.53	0.20	15.00	9.00	8.00	63.00
0404	L11700E	9150	68995.44	20135.04	0.20	10.00	38.00	15.00	114.00
0404	L11700E	9200	68973.22	20179.56	0.10	75.00	10.00	11.00	70.00
0404	L11700E	9250	68951.00	20224.07	0.20	180.00	45.00	12.00	106.00
0404	L11700E	9300	68928.77	20268.59	0.10	2.50	23.00	9.00	87.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0404	L11700E	9350	68906.55	20313.11	0.20	87.00	34.00	12.00	73.00
0404	L11700E	9400	68884.34	20357.62	0.20	2.50	39.00	13.00	116.00
0404	L11700E	9450	68862.12	20402.13	0.10	2.50	14.00	7.00	35.00
0367	L11700E	9500	68839.90	20446.65	0.10	2.50	50.00	13.00	108.00
0367	L11700E	9525	68828.79	20468.91	0.10	2.50	23.00	11.00	65.00
0367	L11700E	9550	68817.68	20491.17	0.20	35.00	64.00	11.00	125.00
0367	L11700E	9575	68806.57	20513.42	0.20	2.50	16.00	9.00	71.00
0367	L11700E	9600	68795.46	20535.68	0.10	2.50	5.00	5.00	26.00
0367	L11700E	9625	68784.35	20557.94	0.10	2.50	5.00	3.00	27.00
0367	L11700E	9650	68773.24	20580.20	0.10	2.50	17.00	15.00	125.00
0367	L11700E	9675	68762.13	20602.45	0.20	2.50	11.00	5.00	35.00
0367	L11700E	9700	68751.02	20624.71	0.30	2.50	40.00	14.00	96.00
0367	L11700E	9725	68739.91	20646.97	0.20	2.50	26.00	10.00	110.00
0367	L11700E	9750	68728.80	20669.23	0.50	2.50	40.00	11.00	120.00
0367	L11700E	9775	68717.70	20691.48	1.20	2.50	43.00	11.00	125.00
0367	L11700E	9800	68706.59	20713.74	0.30	36.00	33.00	12.00	100.00
0367	L11700E	9825	68695.48	20736.00	0.20	2.50	11.00	6.00	52.00
0367	L11700E	9850	68684.37	20758.26	0.40	2.50	29.00	12.00	102.00
0367	L11700E	9875	68673.26	20780.51	0.40	2.50	37.00	18.00	85.00
0367	L11700E	9900	68662.15	20802.77	0.50	2.50	46.00	17.00	108.00
0367	L11700E	9925	68651.04	20825.03	0.50	2.50	83.00	10.00	133.00
0367	L11700E	9975	68628.82	20869.54	0.30	160.00	21.00	9.00	57.00
0367	L11700E	10000	68617.71	20891.80	0.60	2.50	30.00	9.00	96.00
0367	L11700E	10025	68605.23	20913.39	0.50	2.50	32.00	10.00	106.00
0367	L11700E	10050	68592.74	20934.98	0.40	2.50	21.00	7.00	103.00
0367	L11700E	10075	68580.26	20956.57	0.40	10.00	22.00	9.00	100.00
0367	L11700E	10100	68567.77	20978.16	0.40	2.50	41.00	9.00	91.00
0367	L11700E	10125	68555.29	20999.75	0.40	2.50	69.00	7.00	105.00
0367	L11700E	10150	68542.80	21021.34	0.20	2.50	28.00	7.00	93.00
0367	L11700E	10175	68530.32	21042.93	0.30	22.00	58.00	8.00	86.00
0367	L11700E	10200	68517.84	21064.52	0.20	10.00	15.00	6.00	51.00
0367	L11700E	10225	68505.35	21086.11	0.10	2.50	5.00	6.00	35.00
0367	L11700E	10250	68492.87	21107.70	0.50	35.00	26.00	13.00	143.00
0367	L11700E	10275	68480.38	21129.29	0.30	50.00	34.00	16.00	110.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0367	L11700E	10300	68467.90	21150.88	0.30	130.00	18.00	11.00	73.00
0367	L11700E	10325	68455.41	21172.46	0.50	840.00	28.00	21.00	100.00
0367	L11700E	10350	68442.93	21194.05	0.40	2.50	38.00	9.00	65.00
0367	L11700E	10375	68430.45	21215.64	0.30	2.50	14.00	9.00	48.00
0367	L11700E	10400	68417.96	21237.23	0.50	2.50	14.00	15.00	46.00
0367	L11700E	10425	68405.48	21258.82	0.40	20.00	72.00	15.00	46.00
0367	L11700E	10450	68392.99	21280.41	0.20	10.00	10.00	7.00	75.00
0367	L11700E	10475	68380.51	21302.00	0.10	2.50	26.00	11.00	140.00
0367	L11700E	10500	68368.02	21323.59	0.10	2.50	18.00	7.00	74.00
0367	L11800E	9500	68915.13	20487.80	0.20	2.50	27.00	7.00	69.00
0367	L11800E	9525	68904.70	20510.23	0.10	2.50	56.00	15.00	66.00
0367	L11800E	9550	68894.27	20532.67	0.40	2.50	64.00	12.00	140.00
0367	L11800E	9575	68883.83	20555.10	0.20	2.50	34.00	11.00	114.00
0367	L11800E	9600	68873.39	20577.53	0.10	2.50	4.00	3.00	23.00
0367	L11800E	9625	68862.96	20599.96	0.20	14.00	61.00	9.00	102.00
0367	L11800E	9650	68852.52	20622.39	0.10	2.50	42.00	15.00	134.00
0367	L11800E	9675	68842.09	20644.83	0.10	2.50	11.00	3.00	40.00
0367	L11800E	9700	68831.66	20667.26	0.10	30.00	50.00	9.00	69.00
0367	L11800E	9725	68821.22	20689.69	0.10	2.50	9.00	3.00	53.00
0367	L11800E	9750	68810.78	20712.13	0.30	2.50	57.00	13.00	94.00
0367	L11800E	9775	68800.35	20734.56	0.60	2.50	60.00	12.00	80.00
0367	L11800E	9800	68789.91	20756.99	2.00	25.00	77.00	13.00	145.00
0367	L11800E	9825	68779.48	20779.42	0.50	15.00	72.00	16.00	105.00
0367	L11800E	9850	68769.05	20801.86	0.30	10.00	33.00	11.00	93.00
0367	L11800E	9875	68758.61	20824.29	0.30	2.50	38.00	18.00	74.00
0367	L11800E	9900	68748.18	20846.72	0.30	2.50	60.00	17.00	65.00
0367	L11800E	9925	68737.74	20869.15	0.40	2.50	32.00	12.00	98.00
0367	L11800E	9950	68727.30	20891.58	0.50	2.50	51.00	9.00	90.00
0367	L11800E	9975	68716.88	20914.02	0.60	2.50	35.00	11.00	97.00
0367	L11800E	10000	68706.44	20936.45	0.40	2.50	21.00	10.00	62.00
0367	L11800E	10025	68693.32	20957.83	0.20	2.50	22.00	7.00	44.00
0367	L11800E	10050	68680.20	20979.22	0.20	2.50	9.00	6.00	45.00
0367	L11800E	10075	68667.09	21000.60	0.30	2.50	30.00	14.00	98.00
0367	L11800E	10100	68653.98	21021.99	0.10	10.00	5.00	4.00	35.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0367	L11800E	10125	68640.86	21043.37	0.10	15.00	73.00	10.00	83.00
0367	L11800E	10150	68627.74	21064.75	0.10	20.00	34.00	11.00	100.00
0367	L11800E	10175	68614.63	21086.14	0.30	15.00	22.00	10.00	96.00
0367	L11800E	10200	68601.51	21107.52	0.10	40.00	39.00	8.00	72.00
0367	L11800E	10225	68588.39	21128.91	0.20	2.50	29.00	10.00	90.00
0367	L11800E	10275	68562.16	21171.67	0.10	25.00	30.00	9.00	92.00
0367	L11800E	10300	68549.05	21193.06	0.30	65.00	59.00	8.00	104.00
0367	L11800E	10325	68535.93	21214.44	0.10	10.00	48.00	9.00	75.00
0367	L11800E	10350	68522.81	21235.83	0.10	2.50	6.00	5.00	40.00
0367	L11800E	10375	68509.70	21257.21	0.10	2.50	9.00	6.00	25.00
0367	L11800E	10400	68496.58	21278.59	0.10	250.00	54.00	10.00	107.00
0367	L11800E	10425	68483.47	21299.98	0.10	30.00	9.00	10.00	45.00
0367	L11800E	10475	68457.23	21342.75	0.10	2.50	36.00	9.00	117.00
0367	L11800E	10500	68444.12	21364.13	0.20	2.50	55.00	12.00	102.00
0404	L11900E	8500	69435.17	19690.06	0.60	15.00	17.00	9.00	133.00
0404	L11900E	8550	69413.82	19733.10	0.60	110.00	33.00	9.00	110.00
0404	L11900E	8600	69392.46	19776.13	0.60	2.50	22.00	8.00	92.00
0404	L11900E	8650	69371.11	19819.16	0.30	2.50	61.00	10.00	136.00
0404	L11900E	8700	69349.76	19862.20	0.30	35.00	128.00	13.00	146.00
0404	L11900E	8750	69328.40	19905.23	0.40	15.00	54.00	11.00	186.00
0404	L11900E	8800	69307.05	19948.27	0.30	2.50	28.00	9.00	127.00
0404	L11900E	8850	69285.69	19991.30	0.20	2.50	45.00	13.00	124.00
0404	L11900E	8900	69264.34	20034.34	0.50	5.00	34.00	11.00	124.00
0404	L11900E	8950	69242.98	20077.37	0.10	2.50	8.00	5.00	48.00
0404	L11900E	9000	69221.63	20120.40	0.30	25.00	21.00	12.00	95.00
0404	L11900E	9050	69200.27	20163.44	0.20	2.50	25.00	10.00	87.00
0404	L11900E	9100	69178.92	20206.47	0.40	10.00	109.00	16.00	150.00
0404	L11900E	9150	69157.56	20249.51	0.20	2.50	33.00	14.00	190.00
0404	L11900E	9200	69136.21	20292.54	0.50	15.00	35.00	9.00	130.00
0404	L11900E	9250	69114.86	20335.57	0.40	2.50	30.00	11.00	130.00
0404	L11900E	9300	69093.50	20378.61	1.00	2.50	36.00	9.00	130.00
0404	L11900E	9350	69072.15	20421.64	0.60	2.50	63.00	15.00	104.00
0404	L11900E	9400	69050.79	20464.68	1.40	2.50	108.00	11.00	123.00
0404	L11900E	9450	69029.44	20507.71	0.90	2.50	78.00	15.00	100.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0404	L11900E	9500	69008.09	20550.75	0.40	2.50	30.00	6.00	52.00
0404	L11900E	9525	68997.41	20572.26	0.60	530.00	54.00	8.00	90.00
0404	L11900E	9550	68986.73	20593.78	0.70	35.00	49.00	9.00	106.00
0404	L11900E	9575	68976.05	20615.30	0.40	2.50	61.00	7.00	114.00
0404	L11900E	9600	68965.38	20636.81	0.20	20.00	91.00	10.00	132.00
0404	L11900E	9625	68954.70	20658.33	0.40	20.00	46.00	10.00	147.00
0404	L11900E	9650	68944.02	20679.85	0.30	2.50	26.00	10.00	132.00
0404	L11900E	9675	68933.34	20701.37	0.50	10.00	39.00	9.00	91.00
0404	L11900E	9700	68922.66	20722.88	0.40	2.50	43.00	11.00	94.00
0404	L11900E	9725	68911.99	20744.40	0.40	130.00	39.00	9.00	90.00
0404	L11900E	9750	68901.31	20765.92	0.20	15.00	100.00	9.00	95.00
0404	L11900E	9775	68890.63	20787.44	0.50	2.50	35.00	11.00	116.00
0404	L11900E	9800	68879.95	20808.95	0.20	2.50	26.00	8.00	62.00
0404	L11900E	9825	68869.28	20830.47	0.70	2.50	58.00	12.00	114.00
0404	L11900E	9850	68858.60	20851.99	0.20	2.50	33.00	10.00	63.00
0404	L11900E	9875	68847.92	20873.50	0.30	2.50	18.00	9.00	60.00
0404	L11900E	9900	68837.25	20895.02	1.20	2.50	101.00	19.00	146.00
0404	L11900E	9925	68826.57	20916.54	0.20	40.00	232.00	14.00	240.00
0404	L11900E	9950	68815.89	20938.05	0.30	2.50	25.00	9.00	94.00
0404	L11900E	9975	68805.22	20959.57	0.40	10.00	31.00	8.00	95.00
0367	L11900E	10000	68794.54	20981.09	0.10	2.50	8.00	5.00	47.00
0367	L11900E	10025	68782.52	21002.95	0.10	20.00	6.00	3.00	33.00
0367	L11900E	10050	68770.52	21024.80	0.20	15.00	46.00	9.00	82.00
0367	L11900E	10075	68758.50	21046.65	0.30	2.50	32.00	8.00	101.00
0367	L11900E	10100	68746.48	21068.51	0.20	2.50	48.00	9.00	110.00
0367	L11900E	10125	68734.48	21090.37	0.20	2.50	8.00	7.00	103.00
0367	L11900E	10150	68722.46	21112.22	0.20	25.00	37.00	10.00	106.00
0367	L11900E	10175	68710.45	21134.07	0.10	15.00	12.00	6.00	57.00
0367	L11900E	10200	68698.44	21155.93	0.20	2.50	26.00	6.00	65.00
0367	L11900E	10225	68686.42	21177.79	0.20	2.50	22.00	14.00	119.00
0367	L11900E	10250	68674.41	21199.64	0.20	2.50	14.00	5.00	43.00
0367	L11900E	10325	68638.38	21265.21	0.30	2.50	18.00	9.00	105.00
0367	L11900E	10350	68626.36	21287.06	0.10	300.00	17.00	8.00	60.00
0367	L11900E	10375	68614.34	21308.91	0.30	2.50	25.00	10.00	83.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0367	L11900E	10400	68602.34	21330.77	0.30	10.00	14.00	6.00	44.00
0367	L11900E	10425	68590.32	21352.63	0.20	2.50	28.00	6.00	75.00
0367	L11900E	10450	68578.30	21374.48	0.20	2.50	26.00	11.00	76.00
0367	L11900E	10475	68566.30	21396.33	0.20	125.00	31.00	8.00	86.00
0367	L11900E	10500	68554.28	21418.19	0.20	2.50	21.00	9.00	52.00
0367	L12000E	9500	69096.42	20577.20	0.70	150.00	112.00	13.00	133.00
0367	L12000E	9525	69085.89	20599.69	0.40	15.00	52.00	10.00	102.00
0367	L12000E	9550	69075.36	20622.19	0.30	25.00	58.00	10.00	89.00
0367	L12000E	9575	69064.83	20644.68	0.40	2.50	18.00	12.00	48.00
0367	L12000E	9600	69054.30	20667.17	0.60	5.00	34.00	13.00	81.00
0367	L12000E	9625	69043.77	20689.67	0.50	2.50	17.00	5.00	46.00
0367	L12000E	9650	69033.23	20712.16	0.40	2.50	40.00	7.00	56.00
0367	L12000E	9675	69022.70	20734.65	0.30	2.50	22.00	8.00	123.00
0367	L12000E	9700	69012.17	20757.15	0.30	2.50	60.00	8.00	145.00
0367	L12000E	9725	69001.64	20779.64	0.60	2.50	21.00	9.00	84.00
0367	L12000E	9750	68991.11	20802.13	1.30	2.50	34.00	9.00	127.00
0367	L12000E	9775	68980.58	20824.63	0.80	2.50	40.00	9.00	150.00
0367	L12000E	9800	68970.05	20847.12	0.60	2.50	21.00	7.00	47.00
0367	L12000E	9850	68948.98	20892.11	0.50	2.50	71.00	20.00	76.00
0367	L12000E	9875	68938.45	20914.60	0.40	2.50	43.00	14.00	97.00
0367	L12000E	9900	68927.92	20937.10	0.20	2.50	52.00	15.00	90.00
0367	L12000E	9925	68917.39	20959.59	0.20	2.50	74.00	36.00	82.00
0367	L12000E	9950	68906.86	20982.08	0.70	2.50	27.00	7.00	97.00
0367	L12000E	9975	68896.33	21004.58	0.30	2.50	53.00	11.00	82.00
0367	L12000E	10000	68885.80	21027.07	0.20	10.00	26.00	9.00	83.00
0367	L12000E	10025	68874.85	21049.43	0.20	2.50	25.00	11.00	103.00
0367	L12000E	10050	68863.91	21071.78	0.20	2.50	16.00	7.00	53.00
0367	L12000E	10075	68852.97	21094.14	0.80	70.00	252.00	18.00	225.00
0367	L12000E	10100	68842.03	21116.50	0.50	2.50	32.00	10.00	135.00
0367	L12000E	10125	68831.09	21138.85	0.20	2.50	3.00	4.00	21.00
0367	L12000E	10150	68820.14	21161.21	0.30	2.50	54.00	9.00	113.00
0367	L12000E	10175	68809.20	21183.57	0.40	2.50	33.00	8.00	128.00
0367	L12000E	10200	68798.26	21205.92	0.20	2.50	27.00	10.00	80.00
0367	L12000E	10225	68787.32	21228.28	0.10	2.50	18.00	9.00	52.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0367	L12000E	10250	68776.38	21250.63	0.10	2.50	4.00	5.00	18.00
0367	L12000E	10275	68765.43	21272.99	0.30	2.50	16.00	7.00	65.00
0367	L12000E	10300	68754.49	21295.35	0.20	2.50	19.00	13.00	143.00
0367	L12000E	10325	68743.55	21317.70	0.10	33.00	34.00	10.00	86.00
0367	L12000E	10350	68732.61	21340.06	0.20	2.50	65.00	15.00	85.00
0367	L12000E	10375	68721.66	21362.42	0.20	2.50	18.00	10.00	105.00
0367	L12000E	10400	68710.72	21384.77	0.20	2.50	52.00	17.00	140.00
0367	L12000E	10425	68699.78	21407.13	0.10	15.00	9.00	4.00	27.00
0367	L12000E	10450	68688.84	21429.49	0.40	2.50	32.00	9.00	112.00
0367	L12000E	10475	68677.90	21451.84	0.10	2.50	6.00	4.00	38.00
0367	L12000E	10500	68666.95	21474.20	0.30	2.50	33.00	6.00	106.00
0367	L12200E	9500	69297.24	20675.95	0.50	2.50	20.00	10.00	106.00
0367	L12200E	9525	69285.64	20698.07	0.60	2.50	76.00	13.00	106.00
0367	L12200E	9550	69274.03	20720.19	0.40	2.50	42.00	12.00	133.00
0367	L12200E	9575	69262.43	20742.30	0.30	2.50	42.00	11.00	153.00
0367	L12200E	9600	69250.82	20764.42	0.20	40.00	30.00	7.00	65.00
0367	L12200E	9625	69239.22	20786.54	0.50	2.50	66.00	10.00	127.00
0367	L12200E	9650	69227.61	20808.66	1.30	2.50	75.00	10.00	129.00
0367	L12200E	9675	69216.01	20830.78	0.40	2.50	52.00	7.00	129.00
0367	L12200E	9700	69204.40	20852.90	0.50	2.50	50.00	14.00	158.00
0367	L12200E	9725	69192.80	20875.02	0.30	2.50	12.00	11.00	96.00
0367	L12200E	9750	69181.19	20897.13	0.30	10.00	40.00	11.00	110.00
0367	L12200E	9775	69169.59	20919.25	0.80	2.50	57.00	8.00	113.00
0367	L12200E	9800	69157.98	20941.37	0.40	2.50	41.00	7.00	85.00
0367	L12200E	9825	69146.38	20963.49	0.30	2.50	11.00	3.00	28.00
0367	L12200E	9850	69134.77	20985.61	0.20	2.50	21.00	7.00	88.00
0367	L12200E	9875	69123.16	21007.73	0.50	2.50	25.00	11.00	137.00
0367	L12200E	9900	69111.56	21029.85	0.50	2.50	57.00	21.00	228.00
0367	L12200E	9925	69099.95	21051.96	0.20	20.00	74.00	11.00	94.00
0367	L12200E	9950	69088.35	21074.08	0.30	2.50	71.00	8.00	118.00
0367	L12200E	9975	69076.74	21096.20	0.30	2.50	35.00	10.00	134.00
0367	L12200E	10000	69065.14	21118.32	0.80	2.50	57.00	11.00	73.00
0367	L12200E	10025	69054.45	21140.81	0.20	2.50	28.00	10.00	71.00
0367	L12200E	10050	69043.76	21163.30	0.50	2.50	24.00	10.00	81.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0367	L12200E	10075	69033.07	21185.79	0.20	125.00	27.00	9.00	80.00
0367	L12200E	10100	69022.38	21208.28	0.40	2.50	44.00	16.00	86.00
0367	L12200E	10125	69011.69	21230.77	1.20	2.50	65.00	38.00	164.00
0367	L12200E	10150	69000.99	21253.26	0.90	2.50	71.00	14.00	174.00
0367	L12200E	10200	68979.61	21298.24	0.40	2.50	34.00	11.00	69.00
0367	L12200E	10225	68968.92	21320.73	0.20	2.50	52.00	9.00	100.00
0367	L12200E	10250	68958.23	21343.22	0.60	2.50	23.00	9.00	72.00
0367	L12200E	10275	68947.54	21365.71	0.40	2.50	32.00	9.00	112.00
0367	L12200E	10300	68936.85	21388.20	0.20	2.50	57.00	8.00	101.00
0367	L12200E	10325	68926.16	21410.69	0.30	2.50	12.00	9.00	82.00
0367	L12200E	10350	68915.47	21433.18	0.40	2.50	34.00	8.00	63.00
0367	L12200E	10375	68904.77	21455.67	0.30	2.50	49.00	9.00	78.00
0367	L12200E	10400	68894.09	21478.16	0.60	2.50	49.00	9.00	97.00
0367	L12200E	10425	68883.39	21500.65	0.20	2.50	19.00	6.00	80.00
0367	L12200E	10450	68872.70	21523.14	0.60	2.50	38.00	9.00	93.00
0367	L12200E	10475	68862.01	21545.63	0.40	2.50	27.00	10.00	72.00
0367	L12200E	10500	68851.32	21568.12	0.50	100.00	41.00	9.00	103.00
0404	L12300E	8500	69834.28	19835.91	0.40	35.00	67.00	14.00	170.00
0404	L12300E	8550	69811.53	19880.06	0.40	10.00	83.00	20.00	221.00
0404	L12300E	8600	69788.78	19924.22	0.50	15.00	92.00	16.00	234.00
0404	L12300E	8650	69766.03	19968.37	0.40	45.00	151.00	16.00	150.00
0404	L12300E	8700	69743.28	20012.52	0.30	15.00	74.00	12.00	97.00
0404	L12300E	8750	69720.53	20056.68	0.40	20.00	84.00	21.00	230.00
0404	L12300E	8800	69697.77	20100.83	0.20	10.00	26.00	8.00	71.00
0404	L12300E	8850	69675.02	20144.98	0.30	55.00	44.00	12.00	92.00
0404	L12300E	8900	69652.27	20189.14	0.30	2.50	37.00	15.00	145.00
0404	L12300E	8950	69629.52	20233.29	0.20	80.00	40.00	19.00	124.00
0404	L12300E	9000	69606.77	20277.44	0.50	50.00	85.00	19.00	151.00
0404	L12300E	9050	69584.02	20321.60	0.20	133.00	67.00	12.00	73.00
0404	L12300E	9150	69538.52	20409.90	0.60	2.50	52.00	13.00	172.00
0404	L12300E	9200	69515.77	20454.06	2.30	2.50	120.00	18.00	156.00
0404	L12300E	9250	69493.02	20498.21	0.30	2.50	15.00	13.00	84.00
0404	L12300E	9300	69470.27	20542.36	0.20	10.00	35.00	14.00	76.00
0404	L12300E	9350	69447.52	20586.52	0.30	10.00	61.00	13.00	170.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0404	L12300E	9400	69424.77	20630.67	0.20	2.50	28.00	9.00	46.00
0404	L12300E	9450	69402.02	20674.82	0.50	2.50	58.00	16.00	127.00
0367	L12400E	9500	69474.86	20768.13	0.50	2.50	22.00	7.00	44.00
0367	L12400E	9525	69463.06	20789.95	0.30	2.50	17.00	7.00	57.00
0367	L12400E	9550	69451.27	20811.77	0.30	2.50	58.00	12.00	100.00
0367	L12400E	9575	69439.47	20833.59	0.40	2.50	40.00	12.00	95.00
0367	L12400E	9600	69427.67	20855.41	0.30	10.00	48.00	14.00	82.00
0367	L12400E	9625	69415.88	20877.23	1.50	2.50	67.00	15.00	133.00
0367	L12400E	9650	69404.09	20899.04	0.50	15.00	83.00	8.00	113.00
0367	L12400E	9675	69392.29	20920.86	0.40	2.50	19.00	10.00	91.00
0367	L12400E	9700	69380.49	20942.68	0.50	30.00	73.00	10.00	150.00
0367	L12400E	9725	69368.70	20964.50	0.40	15.00	52.00	8.00	82.00
0367	L12400E	9750	69356.90	20986.32	0.60	41.00	87.00	8.00	134.00
0367	L12400E	9775	69345.10	21008.14	0.30	2.50	15.00	4.00	52.00
0367	L12400E	9800	69333.30	21029.96	0.40	2.50	41.00	13.00	148.00
0367	L12400E	9825	69321.51	21051.78	0.30	2.50	22.00	6.00	67.00
0367	L12400E	9850	69309.71	21073.60	0.40	2.50	43.00	10.00	75.00
0367	L12400E	9875	69297.92	21095.41	0.40	2.50	24.00	10.00	62.00
0367	L12400E	9900	69286.13	21117.23	0.70	2.50	35.00	13.00	109.00
0367	L12400E	9925	69274.33	21139.05	0.90	10.00	63.00	14.00	130.00
0367	L12400E	9950	69262.53	21160.87	0.40	2.50	41.00	17.00	132.00
0367	L12400E	9975	69250.73	21182.69	0.90	2.50	112.00	15.00	110.00
0367	L12400E	10000	69238.94	21204.51	1.30	2.50	128.00	20.00	132.00
0367	L12400E	10025	69227.14	21226.49	0.30	2.50	47.00	14.00	89.00
0367	L12400E	10050	69215.34	21248.46	0.30	2.50	40.00	9.00	93.00
0367	L12400E	10075	69203.55	21270.44	0.30	2.50	28.00	10.00	90.00
0367	L12400E	10100	69191.75	21292.42	0.50	2.50	38.00	10.00	62.00
0367	L12400E	10125	69179.95	21314.39	0.40	2.50	34.00	11.00	130.00
0367	L12400E	10150	69168.16	21336.37	0.40	2.50	33.00	11.00	77.00
0367	L12400E	10175	69156.36	21358.35	0.30	10.00	52.00	12.00	74.00
0367	L12400E	10200	69144.56	21380.33	0.40	10.00	33.00	9.00	74.00
0367	L12400E	10225	69132.77	21402.30	1.30	2.50	123.00	14.00	145.00
0367	L12400E	10250	69120.97	21424.28	0.50	70.00	47.00	11.00	113.00
0367	L12400E	10275	69109.16	21446.26	0.30	2.50	19.00	9.00	82.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0367	L12400E	10300	69097.37	21468.23	0.80	2.50	105.00	11.00	148.00
0367	L12400E	10325	69085.57	21490.21	0.60	2.50	31.00	9.00	115.00
0367	L12400E	10350	69073.77	21512.19	0.50	2.50	28.00	7.00	100.00
0367	L12400E	10375	69061.98	21534.17	0.40	2.50	63.00	7.00	127.00
0367	L12400E	10400	69050.18	21556.14	0.30	65.00	120.00	10.00	180.00
0367	L12400E	10425	69038.38	21578.12	0.90	2.50	56.00	9.00	138.00
0367	L12400E	10450	69026.59	21600.10	0.40	2.50	28.00	6.00	115.00
0367	L12400E	10475	69014.79	21622.07	0.40	2.50	35.00	10.00	121.00
0367	L12400E	10500	69002.99	21644.05	0.30	2.50	47.00	9.00	130.00
0404	L12500E	8500	70015.55	19930.32	1.00	2.50	153.00	17.00	250.00
0404	L12500E	8550	69992.59	19974.28	1.20	2.50	27.00	10.00	147.00
0404	L12500E	8600	69969.63	20018.24	0.80	2.50	36.00	13.00	136.00
0404	L12500E	8650	69946.66	20062.20	0.60	2.50	41.00	16.00	185.00
0404	L12500E	8700	69923.70	20106.16	1.30	2.50	68.00	15.00	123.00
0404	L12500E	8750	69900.75	20150.13	0.60	2.50	25.00	12.00	123.00
0404	L12500E	8800	69877.79	20194.09	0.70	2.50	30.00	12.00	83.00
0404	L12500E	8850	69854.83	20238.05	1.00	2.50	33.00	13.00	144.00
0404	L12500E	8900	69831.87	20282.01	0.50	10.00	29.00	12.00	85.00
0404	L12500E	8950	69808.91	20325.97	0.80	2.50	49.00	11.00	85.00
0404	L12500E	9000	69785.95	20369.93	1.20	2.50	31.00	16.00	163.00
0404	L12500E	9050	69762.98	20413.89	0.40	2.50	26.00	8.00	78.00
0404	L12500E	9100	69740.02	20457.85	0.50	2.50	56.00	15.00	190.00
0404	L12500E	9150	69717.06	20501.81	0.40	5.00	91.00	14.00	155.00
0404	L12500E	9200	69694.10	20545.77	0.40	2.50	75.00	12.00	91.00
0404	L12500E	9250	69671.14	20589.73	1.00	2.50	50.00	12.00	108.00
0404	L12500E	9300	69648.19	20633.70	0.70	2.50	43.00	15.00	132.00
0404	L12500E	9350	69625.23	20677.66	1.70	2.50	308.00	18.00	145.00
0404	L12500E	9400	69602.27	20721.62	0.50	2.50	34.00	14.00	100.00
0404	L12500E	9450	69579.30	20765.58	1.00	2.50	93.00	17.00	188.00
0367	L12600E	9500	69654.25	20859.35	0.40	2.50	52.00	13.00	98.00
0367	L12600E	9525	69642.30	20881.17	0.40	2.50	34.00	13.00	74.00
0367	L12600E	9550	69630.34	20902.98	0.40	2.50	62.00	20.00	131.00
0367	L12600E	9575	69618.38	20924.80	0.40	2.50	59.00	16.00	100.00
0367	L12600E	9600	69606.43	20946.62	0.20	2.50	41.00	11.00	77.00

NEEDA EN-GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES EAST	NORTH	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0367	L12600E	9625	69594.48	20968.44	0.50	2.50	28.00	13.00	91.00
0367	L12600E	9650	69582.52	20990.25	0.40	15.00	57.00	16.00	83.00
0367	L12600E	9675	69570.57	21012.07	0.40	2.50	74.00	17.00	94.00
0367	L12600E	9700	69558.61	21033.89	0.60	2.50	40.00	11.00	152.00
0367	L12600E	9725	69546.66	21055.71	1.00	2.50	102.00	17.00	125.00
0367	L12600E	9750	69534.70	21077.52	0.60	2.50	42.00	9.00	137.00
0367	L12600E	9775	69522.75	21099.34	0.90	2.50	36.00	10.00	183.00
0367	L12600E	9800	69510.80	21121.16	0.60	2.50	49.00	11.00	122.00
0367	L12600E	9825	69498.84	21142.98	0.20	2.50	72.00	15.00	97.00
0367	L12600E	9850	69486.88	21164.79	0.50	2.50	49.00	13.00	87.00
0367	L12600E	9875	69474.93	21186.61	0.20	2.50	84.00	13.00	84.00
0367	L12600E	9900	69462.98	21208.43	0.10	2.50	49.00	12.00	74.00
0367	L12600E	9925	69451.02	21230.25	0.90	2.50	27.00	10.00	80.00
0367	L12600E	9950	69439.06	21252.06	0.10	2.50	54.00	11.00	84.00
0367	L12600E	9975	69427.11	21273.88	0.30	2.50	67.00	19.00	80.00
0367	L12600E	10000	69415.16	21295.70	0.30	30.00	59.00	11.00	75.00
0367	L12600E	10025	69403.61	21317.65	0.50	2.50	44.00	12.00	85.00
0367	L12600E	10050	69392.07	21339.60	0.20	2.50	44.00	11.00	110.00
0367	L12600E	10075	69380.53	21361.54	0.60	2.50	86.00	13.00	108.00
0367	L12600E	10100	69368.98	21383.49	1.00	2.50	130.00	23.00	122.00
0367	L12600E	10125	69357.44	21405.44	0.30	2.50	36.00	13.00	80.00
0367	L12600E	10150	69345.90	21427.39	0.40	2.50	85.00	15.00	91.00
0367	L12600E	10175	69334.36	21449.34	0.30	2.50	75.00	18.00	81.00
0367	L12600E	10200	69322.81	21471.28	0.50	2.50	94.00	19.00	100.00
0367	L12600E	10275	69288.19	21537.13	0.40	2.50	29.00	8.00	90.00
0367	L12600E	10300	69276.64	21559.08	0.10	2.50	33.00	12.00	102.00
0367	L12600E	10325	69265.09	21581.02	0.30	2.50	40.00	10.00	70.00
0367	L12600E	10350	69253.55	21602.97	0.20	2.50	23.00	8.00	50.00
0367	L12600E	10375	69242.02	21624.92	0.30	2.50	43.00	12.00	133.00
0367	L12600E	10400	69230.47	21646.87	0.20	2.50	24.00	10.00	56.00
0367	L12600E	10425	69218.92	21668.82	0.50	2.50	32.00	10.00	80.00
0367	L12600E	10450	69207.38	21690.76	1.00	2.50	80.00	15.00	212.00
0367	L12600E	10475	69195.84	21712.71	0.90	2.50	78.00	12.00	133.00
0367	L12600E	10500	69184.30	21734.66	0.40	2.50	50.00	11.00	77.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0378	L38000E	39200	71859.46	19324.49	.70	2.50	42.00	30.00	110.00
0378	L38000E	39225	71875.49	19343.02	.50	15.00	49.00	29.00	115.00
0378	L38000E	39250	71891.52	19361.56	.70	2.50	40.00	26.00	118.00
0378	L38000E	39275	71907.55	19380.09	.30	235.00	23.00	18.00	133.00
0378	L38000E	39300	71923.58	19398.62	.10	10.00	41.00	31.00	110.00
0378	L38000E	39325	71939.61	19417.15	.10	15.00	23.00	24.00	60.00
0378	L38000E	39350	71955.63	19435.69	.10	20.00	32.00	21.00	72.00
0378	L38000E	39375	71971.66	19454.22	.30	2.50	56.00	29.00	107.00
0378	L38000E	39400	71987.70	19472.75	.40	15.00	58.00	36.00	92.00
0378	L38000E	39425	72003.72	19491.29	.20	2.50	79.00	42.00	108.00
0378	L38000E	39450	72019.75	19509.82	.80	2.50	78.00	44.00	102.00
0378	L38000E	39475	72035.78	19528.35	.40	2.50	58.00	28.00	95.00
0378	L38000E	39500	72051.81	19546.88	.60	2.50	92.00	42.00	130.00
0378	L38000E	39525	72067.84	19565.42	.60	2.50	49.00	38.00	92.00
0378	L38100E	39200	71761.52	19418.04	.40	15.00	26.00	18.00	103.00
0378	L38100E	39225	71779.12	19434.97	.30	2.50	59.00	46.00	90.00
0378	L38100E	39250	71796.71	19451.90	.60	2.50	51.00	29.00	82.00
0378	L38100E	39275	71814.31	19468.83	.20	30.00	23.00	15.00	100.00
0378	L38100E	39300	71831.91	19485.76	.50	20.00	11.00	13.00	95.00
0378	L38100E	39325	71849.50	19502.69	.20	2.50	44.00	32.00	98.00
0378	L38100E	39350	71867.09	19519.62	.40	2.50	78.00	26.00	91.00
0378	L38100E	39375	71884.69	19536.55	.50	10.00	94.00	39.00	103.00
0378	L38100E	39400	71902.29	19553.48	1.10	10.00	130.00	47.00	136.00
0378	L38100E	39425	71919.88	19570.41	.50	5.00	83.00	37.00	110.00
0378	L38100E	39450	71937.48	19587.34	.50	2.50	79.00	41.00	113.00
0378	L38100E	39475	71955.07	19604.27	.40	2.50	95.00	52.00	126.00
0378	L38100E	39500	71972.67	19621.20	.30	2.50	51.00	27.00	85.00
0378	L38100E	39525	71990.27	19638.13	.90	2.50	104.00	49.00	128.00
0378	L38200E	39200	71706.81	19450.41	.20	2.50	22.00	14.00	90.00
0378	L38200E	39225	71723.00	19468.92	.20	2.50	10.00	11.00	65.00
0378	L38200E	39250	71739.20	19487.43	.10	2.50	11.00	12.00	65.00

0378	L38200E	39275	71755.39	19505.95	.10	30.00	8.00	7.00	67.00
0378	L38200E	39300	71771.58	19524.46	.30	2.50	14.00	16.00	89.00
0378	L38200E	39325	71787.77	19542.97	.40	2.50	57.00	29.00	120.00
0378	L38200E	39350	71803.96	19561.48	.40	2.50	81.00	40.00	114.00
0378	L38200E	39375	71820.16	19579.99	.90	2.50	106.00	46.00	160.00
0378	L38200E	39400	71836.34	19598.50	.60	2.50	97.00	46.00	137.00
0378	L38200E	39425	71852.53	19617.01	.80	10.00	82.00	54.00	128.00
0378	L38300E	39200	71636.09	19529.57	.50	25.00	13.00	14.00	50.00
0378	L38300E	39225	71652.10	19547.94	.40	95.00	29.00	23.00	129.00
0378	L38300E	39250	71668.11	19566.31	.30	30.00	8.00	8.00	38.00
0378	L38300E	39275	71684.12	19584.68	.30	25.00	5.00	6.00	58.00
0378	L38300E	39300	71700.13	19603.05	.20	35.00	56.00	18.00	84.00
0378	L38300E	39325	71716.13	19621.42	.20	20.00	31.00	27.00	103.00
0378	L38300E	39350	71732.14	19639.79	.20	25.00	24.00	20.00	95.00
0378	L38300E	39375	71748.16	19658.16	.20	2.50	38.00	17.00	90.00
0378	L38300E	39400	71764.16	19676.53	.30	2.50	63.00	33.00	96.00
0378	L38300E	39425	71780.17	19694.89	.40	10.00	73.00	18.00	93.00
0378	L38300E	39450	71796.18	19713.26	.60	2.50	57.00	24.00	88.00
0378	L38300E	39475	71812.19	19731.63	.60	2.50	90.00	23.00	84.00
0378	L38300E	39500	71828.20	19750.00	1.10	5.00	100.00	35.00	160.00
0378	L38300E	39525	71844.20	19768.37	.50	2.50	30.00	26.00	70.00
0378	L38400E	39200	71576.81	19587.83	.30	160.00	15.00	20.00	120.00
0378	L38400E	39225	71592.42	19606.37	.20	80.00	7.00	19.00	98.00
0378	L38400E	39250	71608.03	19624.90	.20	2.50	9.00	23.00	58.00
0378	L38400E	39275	71623.64	19643.44	.20	2.50	31.00	18.00	82.00
0378	L38400E	39300	71639.25	19661.97	.20	2.50	23.00	19.00	71.00
0378	L38400E	39325	71654.86	19680.51	.40	2.50	61.00	25.00	97.00
0378	L38400E	39350	71670.47	19699.04	.40	2.50	40.00	25.00	67.00
0378	L38400E	39375	71686.08	19717.58	2.90	2.50	210.00	25.00	107.00
0378	L38400E	39400	71701.69	19736.12	1.30	2.50	200.00	33.00	136.00
0378	L38400E	39425	71717.30	19754.65	.30	2.50	31.00	19.00	50.00
0378	L38400E	39450	71732.91	19773.19	.40	2.50	68.00	22.00	170.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0378	L38400E	39475	71748.52	19791.72	.40	2.50	105.00	38.00	111.00
0378	L38400E	39500	71764.13	19810.26	1.20	2.50	184.00	50.00	179.00
0378	L38400E	39525	71779.73	19828.79	1.20	2.50	139.00	55.00	160.00
0378	L38500E	39225	71475.90	19699.57	.20	2.50	24.00	16.00	55.00
0378	L38500E	39250	71493.30	19716.90	.50	2.50	47.00	31.00	80.00
0378	L38500E	39275	71510.70	19734.24	.60	2.50	57.00	41.00	98.00
0378	L38500E	39300	71528.11	19751.58	.20	85.00	24.00	16.00	97.00
0378	L38500E	39325	71545.52	19768.91	.10	2.50	15.00	11.00	43.00
0378	L38500E	39350	71562.92	19786.25	.20	2.50	15.00	14.00	71.00
0378	L38500E	39375	71580.33	19803.59	.50	45.00	17.00	20.00	84.00
0378	L38500E	39400	71597.73	19820.92	.20	10.00	32.00	21.00	120.00
0378	L38500E	39425	71615.13	19838.26	.10	2.50	29.00	26.00	77.00
0378	L38500E	39450	71632.54	19855.59	.10	2.50	39.00	24.00	112.00
0378	L38500E	39475	71649.95	19872.93	.20	2.50	25.00	22.00	97.00
0378	L38500E	39500	71667.34	19890.27	.10	25.00	8.00	8.00	36.00
0378	L38500E	39525	71684.75	19907.60	.10	45.00	9.00	8.00	52.00
0378	L38600E	39250	71432.88	19782.89	.10	55.00	32.00	17.00	60.00
0378	L38600E	39275	71449.35	19799.77	.10	30.00	24.00	12.00	52.00
0378	L38600E	39300	71465.82	19816.66	.10	40.00	18.00	20.00	125.00
0378	L38600E	39325	71482.29	19833.54	.30	35.00	39.00	30.00	270.00
0378	L38600E	39350	71498.76	19850.43	.10	135.00	11.00	14.00	62.00
0378	L38600E	39375	71515.23	19867.31	.10	70.00	27.00	19.00	75.00
0378	L38600E	39400	71531.70	19884.20	.10	60.00	39.00	18.00	76.00
0378	L38600E	39425	71548.17	19901.08	.10	40.00	40.00	20.00	110.00
0378	L38600E	39450	71564.64	19917.97	.10	30.00	40.00	24.00	130.00
0378	L38600E	39475	71581.11	19934.86	.10	50.00	45.00	24.00	140.00
0378	L38600E	39500	71597.59	19951.74	.10	2.50	36.00	24.00	120.00
0378	L38600E	39525	71614.05	19968.63	.50	2.50	85.00	48.00	85.00
0378	L38700E	39200	71342.14	19824.65	.10	2.50	31.00	26.00	80.00
0378	L38700E	39225	71359.68	19842.35	.30	60.00	16.00	31.00	118.00
0378	L38700E	39250	71377.22	19860.05	.20	65.00	47.00	26.00	92.00
0378	L38700E	39275	71394.76	19877.75	.10	45.00	29.00	17.00	84.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0378	L38700E	39300	71412.30	19895.45	.10	30.00	31.00	21.00	184.00
0378	L38700E	39325	71429.84	19913.15	.10	170.00	7.00	15.00	47.00
0378	L38700E	39350	71447.38	19930.86	.20	40.00	8.00	20.00	68.00
0378	L38700E	39375	71464.92	19948.55	.10	35.00	5.00	10.00	43.00
0378	L38700E	39400	71482.46	19966.26	.20	2.50	41.00	25.00	144.00
0378	L38700E	39425	71500.00	19983.96	.20	20.00	9.00	18.00	70.00
0378	L38700E	39450	71517.54	20001.66	.30	20.00	41.00	28.00	90.00
0378	L38700E	39475	71535.09	20019.36	.40	30.00	40.00	28.00	55.00
0378	L38700E	39500	71552.63	20037.06	.30	580.00	12.00	15.00	57.00
0378	L38700E	39525	71570.16	20054.76	.50	2.50	20.00	21.00	57.00
0376	L38800E	39200	71250.05	19874.33	.20	5.00	6.00	14.00	40.00
0377	L38800E	39225	71268.19	19891.75	.60	25.00	76.00	16.00	93.00
0377	L38800E	39250	71286.33	19909.17	.10	175.00	6.00	6.00	45.00
0376	L38800E	39275	71304.47	19926.59	.40	2.50	19.00	22.00	75.00
0376	L38800E	39300	71322.62	19944.01	.10	2.50	29.00	23.00	107.00
0376	L38800E	39325	71340.76	19961.43	.10	2.50	11.00	17.00	43.00
0376	L38800E	39350	71358.90	19978.85	.10	10.00	62.00	28.00	122.00
0376	L38800E	39375	71377.04	19996.27	.10	90.00	60.00	15.00	125.00
0376	L38800E	39400	71395.18	20013.68	1.00	2.50	131.00	29.00	152.00
0376	L38800E	39425	71413.32	20031.10	.30	2.50	68.00	27.00	87.00
0376	L38800E	39450	71431.46	20048.52	.10	2.50	26.00	20.00	76.00
0376	L38800E	39475	71449.61	20065.94	.10	40.00	45.00	14.00	62.00
0377	L38800E	39500	71467.75	20083.36	.30	25.00	43.00	12.00	40.00
0377	L38800E	39525	71485.89	20100.78	.20	75.00	28.00	16.00	60.00
0376	L38800E	39550	71504.03	20118.20	.30	120.00	62.00	15.00	87.00
0376	L38800E	39575	71520.13	20137.00	.30	75.00	107.00	14.00	90.00
0376	L38800E	39600	71536.21	20155.81	.10	5.00	53.00	28.00	66.00
0376	L38800E	39625	71552.30	20174.62	.20	2.50	88.00	100.00	106.00
0376	L38800E	39650	71568.40	20193.42	.10	2.50	31.00	14.00	67.00
0376	L38800E	39675	71584.49	20212.23	.10	2.50	44.00	15.00	99.00
0376	L38800E	39700	71600.58	20231.03	.10	2.50	45.00	22.00	96.00
0378	L38900E	39200	71152.34	19945.75	.20	10.00	51.00	34.00	89.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0378	L38900E	39225	71170.91	19963.46	.30	2.50	119.00	44.00	123.00
0378	L38900E	39250	71189.48	19981.16	.20	2.50	52.00	27.00	82.00
0378	L38900E	39275	71208.06	19998.87	.20	10.00	14.00	15.00	44.00
0378	L38900E	39300	71226.63	20016.58	.10	2.50	9.00	13.00	40.00
0378	L38900E	39325	71245.20	20034.29	.30	45.00	25.00	67.00	122.00
0378	L38900E	39350	71263.77	20051.99	.20	2.50	64.00	14.00	75.00
0378	L38900E	39375	71282.34	20069.70	.40	75.00	16.00	11.00	60.00
0378	L38900E	39400	71300.92	20087.41	.60	15.00	9.00	12.00	50.00
0378	L38900E	39425	71319.49	20105.12	.40	15.00	9.00	12.00	47.00
0378	L38900E	39450	71338.06	20122.82	.20	40.00	47.00	25.00	72.00
0378	L38900E	39475	71356.63	20140.53	.30	60.00	44.00	19.00	69.00
0378	L38900E	39500	71375.21	20158.24	.40	2.50	33.00	16.00	93.00
0378	L38900E	39525	71393.78	20175.94	.40	70.00	102.00	28.00	113.00
0378	L38900E	39550	71412.35	20193.65	.60	20.00	103.00	26.00	125.00
0378	L38900E	39575	71429.38	20212.12	.70	5.00	139.00	32.00	127.00
0378	L38900E	39600	71446.39	20230.59	.30	2.50	78.00	28.00	89.00
0378	L38900E	39625	71463.41	20249.05	.40	2.50	119.00	43.00	138.00
0378	L38900E	39650	71480.43	20267.52	.70	15.00	104.00	21.00	116.00
0378	L38900E	39675	71497.45	20285.99	.30	2.50	32.00	10.00	66.00
0378	L38900E	39700	71514.47	20304.46	.90	2.50	169.00	21.00	126.00
0376	L39000E	39200	71086.41	20002.20	.10	2.50	17.00	14.00	84.00
0377	L39000E	39225	71104.67	20020.60	.10	2.50	12.00	15.00	43.00
0376	L39000E	39250	71122.94	20038.99	.10	10.00	24.00	17.00	82.00
0376	L39000E	39275	71141.20	20057.39	.10	10.00	19.00	17.00	57.00
0376	L39000E	39300	71159.47	20075.78	.30	2.50	29.00	23.00	96.00
0377	L39000E	39325	71177.73	20094.18	.20	2.50	61.00	29.00	95.00
0377	L39000E	39350	71196.00	20112.57	.30	2.50	107.00	38.00	115.00
0377	L39000E	39375	71214.27	20130.97	.20	2.50	71.00	38.00	87.00
0377	L39000E	39400	71232.52	20149.37	.20	2.50	81.00	27.00	84.00
0377	L39000E	39425	71250.79	20167.76	.20	10.00	70.00	34.00	82.00
0377	L39000E	39450	71269.05	20186.16	.30	20.00	127.00	33.00	131.00
0376	L39000E	39475	71287.32	20204.55	.10	15.00	31.00	22.00	73.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0376	L39000E	39500	71305.59	20222.95	.10	10.00	28.00	24.00	67.00
0376	L39000E	39525	71323.85	20241.34	.10	2.50	66.00	20.00	85.00
0376	L39000E	39550	71342.12	20259.74	.10	15.00	90.00	27.00	87.00
0377	L39000E	39575	71359.09	20278.11	.20	55.00	14.00	19.00	48.00
0376	L39000E	39600	71376.07	20296.47	.20	55.00	59.00	16.00	88.00
0376	L39000E	39625	71393.05	20314.84	.20	15.00	71.00	21.00	106.00
0376	L39000E	39650	71410.02	20333.20	.10	2.50	90.00	14.00	98.00
0376	L39000E	39675	71427.00	20351.56	.30	2.50	55.00	24.00	140.00
0376	L39000E	39700	71443.98	20369.93	.60	2.50	92.00	44.00	185.00
0378	L39100E	39200	71014.16	20077.63	.20	2.50	80.00	24.00	102.00
0378	L39100E	39225	71031.80	20095.79	.50	2.50	48.00	25.00	100.00
0378	L39100E	39250	71049.43	20113.95	.40	2.50	39.00	22.00	90.00
0378	L39100E	39275	71067.06	20132.11	.40	2.50	78.00	31.00	85.00
0378	L39100E	39300	71084.70	20150.27	.70	2.50	30.00	18.00	84.00
0378	L39100E	39325	71102.34	20168.43	.40	2.50	52.00	17.00	110.00
0378	L39100E	39350	71119.98	20186.59	.20	2.50	50.00	21.00	85.00
0378	L39100E	39375	71137.61	20204.75	.60	2.50	36.00	18.00	101.00
0378	L39100E	39400	71155.25	20222.90	.40	2.50	58.00	26.00	105.00
0378	L39100E	39425	71172.89	20241.06	.40	2.50	61.00	28.00	93.00
0378	L39100E	39450	71190.52	20259.22	.50	2.50	25.00	20.00	65.00
0378	L39100E	39475	71208.16	20277.38	.10	2.50	21.00	15.00	77.00
0378	L39100E	39500	71225.80	20295.54	.20	20.00	49.00	26.00	64.00
0378	L39100E	39525	71243.44	20313.70	.20	2.50	24.00	21.00	72.00
0378	L39100E	39550	71261.07	20331.86	.30	15.00	45.00	27.00	88.00
0378	L39100E	39575	71278.25	20350.14	.30	2.50	45.00	23.00	68.00
0378	L39100E	39600	71295.44	20368.42	.40	2.50	47.00	20.00	103.00
0378	L39100E	39625	71312.62	20386.70	.40	10.00	65.00	34.00	100.00
0378	L39100E	39650	71329.80	20404.97	.30	2.50	59.00	26.00	69.00
0378	L39100E	39675	71346.98	20423.25	.70	2.50	42.00	39.00	76.00
0378	L39100E	39700	71364.17	20441.53	.80	20.00	97.00	23.00	130.00
0378	L39200E	39200	70935.65	20145.86	.20	2.50	114.00	19.00	113.00
0378	L39200E	39225	70953.80	20164.41	.20	2.50	30.00	24.00	84.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0378	L39200E	39250	70971.96	20182.96	.20	25.00	33.00	18.00	70.00
0378	L39200E	39275	70990.12	20201.51	.20	2.50	29.00	16.00	85.00
0378	L39200E	39300	71008.28	20220.06	.10	2.50	14.00	6.00	55.00
0378	L39200E	39325	71026.44	20238.61	.40	2.50	96.00	21.00	106.00
0378	L39200E	39350	71044.59	20257.16	.30	2.50	69.00	25.00	99.00
0378	L39200E	39375	71062.75	20275.71	.40	2.50	68.00	18.00	122.00
0378	L39200E	39400	71080.91	20294.26	.30	2.50	63.00	25.00	105.00
0378	L39200E	39425	71099.06	20312.81	.50	2.50	72.00	20.00	89.00
0378	L39200E	39450	71117.22	20331.36	.20	2.50	55.00	11.00	90.00
0378	L39200E	39475	71135.38	20349.91	.50	20.00	99.00	32.00	110.00
0378	L39200E	39500	71153.54	20368.46	.40	2.50	84.00	21.00	105.00
0378	L39200E	39525	71171.70	20387.01	.30	2.50	70.00	24.00	92.00
0378	L39200E	39550	71189.85	20405.56	.60	2.50	89.00	30.00	140.00
0378	L39200E	39575	71206.91	20423.38	.30	2.50	73.00	26.00	100.00
0378	L39200E	39600	71223.98	20441.20	.60	2.50	68.00	29.00	97.00
0378	L39200E	39625	71241.05	20459.02	.60	10.00	182.00	31.00	120.00
0378	L39200E	39650	71258.12	20476.84	.40	2.50	87.00	24.00	130.00
0378	L39200E	39675	71275.18	20494.65	.80	2.50	91.00	23.00	145.00
0378	L39200E	39700	71292.24	20512.47	.50	5.00	82.00	32.00	98.00
0378	L39300E	39200	70859.61	20211.10	.30	2.50	50.00	26.00	100.00
0378	L39300E	39225	70877.96	20229.18	.20	2.50	39.00	16.00	66.00
0378	L39300E	39250	70896.31	20247.26	.30	2.50	39.00	16.00	90.00
0378	L39300E	39275	70914.66	20265.34	.80	2.50	167.00	38.00	126.00
0378	L39300E	39300	70933.02	20283.42	.40	2.50	132.00	27.00	114.00
0378	L39300E	39325	70951.37	20301.50	.30	2.50	43.00	17.00	112.00
0378	L39300E	39350	70969.72	20319.58	.70	2.50	165.00	24.00	92.00
0378	L39300E	39375	70988.08	20337.66	.70	2.50	69.00	18.00	118.00
0378	L39300E	39400	71006.43	20355.73	.20	2.50	39.00	19.00	101.00
0378	L39300E	39425	71024.78	20373.81	.40	2.50	105.00	26.00	105.00
0378	L39300E	39450	71043.13	20391.89	.30	2.50	56.00	10.00	90.00
0378	L39300E	39475	71061.48	20409.97	.30	2.50	66.00	21.00	91.00
0378	L39300E	39500	71079.84	20428.05	.50	2.50	113.00	25.00	100.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0378	L39300E	39525	71098.19	20446.13	.30	10.00	61.00	19.00	97.00
0378	L39400E	39200	70786.23	20270.65	.20	75.00	33.00	17.00	60.00
0378	L39400E	39225	70804.41	20289.30	.30	10.00	123.00	17.00	120.00
0378	L39400E	39250	70822.59	20307.95	.40	20.00	56.00	32.00	60.00
0378	L39400E	39275	70840.77	20326.60	.60	2.50	50.00	28.00	60.00
0378	L39400E	39300	70858.96	20345.24	.30	25.00	50.00	26.00	78.00
0378	L39400E	39325	70877.14	20363.89	.30	2.50	63.00	32.00	77.00
0378	L39400E	39350	70895.33	20382.54	.20	2.50	78.00	23.00	83.00
0378	L39400E	39375	70913.51	20401.19	.30	10.00	83.00	32.00	82.00
0378	L39400E	39400	70931.69	20419.84	.50	10.00	55.00	28.00	160.00
0378	L39400E	39425	70949.88	20438.49	.50	15.00	141.00	42.00	141.00
0378	L39400E	39450	70968.05	20457.14	.50	2.50	139.00	17.00	118.00
0378	L39400E	39475	70986.24	20475.79	.30	2.50	108.00	38.00	95.00
0378	L39400E	39500	71004.42	20494.43	.50	2.50	106.00	38.00	102.00
0378	L39400E	39525	71022.61	20513.08	.40	2.50	88.00	37.00	101.00
0378	L39500E	39200	70694.02	20334.77	.50	2.50	70.00	20.00	109.00
0378	L39500E	39225	70713.84	20353.50	.40	2.50	90.00	18.00	116.00
0378	L39500E	39250	70733.66	20372.23	.30	2.50	102.00	25.00	106.00
0378	L39500E	39275	70753.48	20390.96	.30	2.50	98.00	23.00	97.00
0378	L39500E	39300	70773.31	20409.69	.40	10.00	93.00	24.00	110.00
0378	L39500E	39325	70793.13	20428.42	.20	2.50	38.00	22.00	94.00
0378	L39500E	39350	70812.95	20447.15	.90	2.50	123.00	38.00	130.00
0378	L39500E	39375	70832.77	20465.88	1.00	2.50	59.00	34.00	189.00
0378	L39500E	39400	70852.59	20484.60	.20	335.00	60.00	30.00	66.00
0378	L39500E	39425	70872.41	20503.33	.40	2.50	111.00	42.00	103.00
0378	L39500E	39450	70892.23	20522.06	.40	2.50	110.00	30.00	95.00
0378	L39500E	39475	70912.06	20540.79	.70	2.50	162.00	33.00	135.00
0378	L39500E	39500	70931.88	20559.52	.10	15.00	52.00	15.00	57.00
0378	L39500E	39525	70951.70	20578.25	.30	2.50	61.00	19.00	74.00
0378	L39600E	39200	70616.04	20426.98	.50	2.50	20.00	4.00	52.00
0378	L39600E	39225	70634.91	20444.06	2.70	2.50	36.00	21.00	107.00
0378	L39600E	39250	70653.79	20461.15	.40	2.50	23.00	9.00	50.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0378	L39600E	39275	70672.66	20478.23	.30	2.50	24.00	18.00	56.00
0378	L39600E	39300	70691.54	20495.31	.20	2.50	10.00	15.00	52.00
0378	L39600E	39325	70710.41	20512.39	.20	2.50	36.00	11.00	87.00
0378	L39600E	39350	70729.29	20529.48	.40	2.50	33.00	7.00	80.00
0378	L39600E	39375	70748.16	20546.56	.40	55.00	25.00	8.00	53.00
0378	L39600E	39400	70767.04	20563.64	.30	2.50	34.00	3.00	69.00
0378	L39600E	39425	70785.91	20580.73	.50	40.00	52.00	12.00	97.00
0378	L39600E	39450	70804.79	20597.81	.30	30.00	99.00	25.00	78.00
0378	L39600E	39475	70823.66	20614.89	.40	10.00	42.00	22.00	65.00
0378	L39600E	39500	70842.54	20631.97	.20	2.50	62.00	21.00	63.00
0378	L39600E	39525	70861.41	20649.06	.30	2.50	28.00	16.00	58.00
0378	L39700E	39200	70547.77	20499.42	.40	2.50	61.00	16.00	85.00
0378	L39700E	39225	70566.02	20515.78	.90	10.00	50.00	16.00	145.00
0378	L39700E	39250	70584.25	20532.14	.50	35.00	42.00	18.00	90.00
0378	L39700E	39275	70602.48	20548.51	.40	15.00	54.00	19.00	72.00
0378	L39700E	39300	70620.73	20564.87	.70	35.00	186.00	84.00	225.00
0378	L39700E	39325	70638.97	20581.23	.60	2.50	38.00	17.00	85.00
0378	L39700E	39350	70657.20	20597.59	1.20	2.50	36.00	4.00	99.00
0378	L39700E	39375	70675.44	20613.96	.40	15.00	35.00	20.00	76.00
0378	L39700E	39400	70693.68	20630.32	.80	15.00	11.00	8.00	84.00
0378	L39700E	39425	70711.92	20646.68	.20	15.00	16.00	19.00	77.00
0378	L39700E	39450	70730.16	20663.04	.20	2.50	27.00	15.00	67.00
0378	L39700E	39475	70748.39	20679.40	.10	10.00	21.00	12.00	40.00
0378	L39700E	39500	70766.63	20695.77	.20	50.00	19.00	10.00	87.00
0378	L39700E	39525	70784.88	20712.13	.20	25.00	11.00	12.00	70.00
0403	L39800E	39200	70485.25	20562.61	.70	2.50	80.00	16.00	338.00
0403	L39800E	39225	70504.86	20579.21	.60	2.50	67.00	10.00	114.00
0403	L39800E	39250	70524.46	20595.80	.50	2.50	30.00	12.00	70.00
0403	L39800E	39275	70544.06	20612.40	.50	2.50	49.00	13.00	153.00
0403	L39800E	39300	70563.67	20629.00	1.40	2.50	25.00	8.00	84.00
0403	L39800E	39325	70583.28	20645.59	.30	2.50	32.00	12.00	76.00
0403	L39800E	39350	70602.88	20662.19	.20	2.50	19.00	9.00	63.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0403	L39800E	39375	70622.48	20678.79	.10	2.50	26.00	14.00	83.00
0403	L39900E	39200	70392.52	20619.68	.60	20.00	85.00	15.00	148.00
0403	L39900E	39225	70412.06	20635.73	.50	2.50	38.00	16.00	93.00
0403	L39900E	39250	70431.60	20651.77	.40	2.50	53.00	15.00	98.00
0403	L39900E	39275	70451.13	20667.82	1.00	2.50	56.00	18.00	203.00
0403	L39900E	39300	70470.67	20683.87	NS	2.50	NS	NS	NS
0403	L40000E	39200	70326.28	20676.83	.50	2.50	47.00	12.00	105.00
0403	L40000E	39225	70344.13	20693.85	1.10	2.50	24.00	12.00	67.00
0403	L40000E	39250	70361.98	20710.86	.40	2.50	40.00	13.00	84.00
0403	L40000E	39275	70379.84	20727.88	.40	2.50	32.00	14.00	110.00
0403	L40000E	39300	70397.69	20744.90	.80	2.50	19.00	10.00	73.00
0403	L40000E	39325	70415.54	20761.91	.70	50.00	43.00	12.00	100.00
0403	L40000E	39350	70433.39	20778.93	.60	2.50	34.00	19.00	74.00
0403	L40000E	39375	70451.25	20795.95	1.10	2.50	60.00	25.00	141.00
0403	L40000E	39400	70469.10	20812.96	.40	2.50	62.00	21.00	83.00
0403	L40000E	39425	70486.95	20829.98	.40	2.50	61.00	21.00	72.00
0403	L40000E	39450	70504.80	20846.99	.30	2.50	38.00	13.00	58.00
0403	L40000E	39475	70522.66	20864.01	.40	2.50	56.00	24.00	247.00
0403	L40000E	39500	70540.51	20881.03	.30	2.50	29.00	12.00	120.00
0403	L40000E	39525	70558.36	20898.04	.10	2.50	12.00	7.00	50.00
0403	L40100E	39200	70265.36	20743.71	.10	2.50	35.00	15.00	63.00
0403	L40100E	39225	70283.30	20760.76	.30	2.50	72.00	19.00	92.00
0403	L40100E	39250	70301.25	20777.82	1.00	2.50	41.00	14.00	80.00
0403	L40100E	39275	70319.20	20794.87	.20	2.50	36.00	17.00	86.00
0403	L40100E	39300	70337.15	20811.93	.40	2.50	31.00	15.00	85.00
0403	L40100E	39325	70355.09	20828.98	.50	2.50	37.00	17.00	103.00
0403	L40100E	39350	70373.04	20846.03	.60	2.50	47.00	19.00	113.00
0403	L40100E	39375	70390.98	20863.09	.40	2.50	45.00	18.00	111.00
0403	L40100E	39400	70408.94	20880.14	1.60	2.50	243.00	43.00	165.00
0403	L40100E	39425	70426.88	20897.19	.30	15.00	62.00	19.00	68.00
0403	L40100E	39450	70444.83	20914.25	.20	5.00	36.00	13.00	53.00
0403	L40100E	39475	70462.77	20931.30	.30	2.50	53.00	23.00	227.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0403	L40100E	39500	70480.73	20948.35	.20	2.50	28.00	13.00	115.00
0403	L40100E	39525	70498.67	20965.41	.10	2.50	12.00	7.00	47.00
0403	L40200E	39200	70173.26	20814.75	.10	2.50	36.00	14.00	63.00
0403	L40200E	39225	70192.57	20833.87	.20	2.50	71.00	17.00	87.00
0403	L40200E	39250	70211.89	20852.99	.60	2.50	40.00	12.00	69.00
0403	L40200E	39275	70231.20	20872.11	.20	5.00	35.00	15.00	83.00
0403	L40200E	39300	70250.52	20891.22	.40	2.50	32.00	16.00	87.00
0403	L40200E	39325	70269.84	20910.34	.40	2.50	35.00	15.00	90.00
0403	L40200E	39350	70289.16	20929.46	.60	150.00	47.00	18.00	105.00
0403	L40200E	39375	70308.47	20948.58	.20	200.00	47.00	17.00	108.00
0403	L40200E	39400	70327.78	20967.70	1.40	25.00	250.00	41.00	162.00
0403	L40200E	39425	70347.10	20986.82	.70	2.50	141.00	35.00	95.00
0403	L40200E	39450	70366.41	21005.94	1.20	2.50	203.00	30.00	132.00
0403	L40200E	39475	70385.73	21025.05	1.00	2.50	136.00	30.00	100.00
0403	L40200E	39500	70405.05	21044.17	.90	35.00	37.00	15.00	50.00
0403	L40200E	39525	70424.37	21063.29	.50	10.00	47.00	26.00	75.00
0521	L40300E	39550	70372.81	21142.01	2.00	2.50	193.00	23.00	153.00
0521	L40300E	39575	70390.11	21159.67	.60	2.50	80.00	19.00	112.00
0521	L40300E	39625	70424.71	21195.00	.10	2.50	50.00	15.00	100.00
0521	L40300E	39650	70442.01	21212.67	.30	2.50	20.00	12.00	113.00
0521	L40300E	39675	70459.30	21230.33	.30	2.50	31.00	12.00	100.00
0521	L40300E	39700	70476.60	21248.00	.30	2.50	36.00	9.00	86.00
0415	L40500E	39850	70432.27	21490.07	.20	2.50	32.00	15.00	92.00
0415	L40500E	39875	70450.14	21507.22	.50	10.00	37.00	18.00	170.00
0415	L40500E	39900	70468.02	21524.37	.50	2.50	40.00	16.00	158.00
0415	L40650E	39825	70315.45	21581.01	.40	2.50	30.00	18.00	140.00
0415	L40650E	39850	70336.40	21598.57	.50	5.00	24.00	26.00	195.00
0415	L40650E	39875	70357.35	21616.14	.40	15.00	47.00	16.00	104.00
0415	L40650E	39900	70378.31	21633.70	.30	15.00	47.00	24.00	142.00
0415	L40650E	39925	70399.27	21651.27	.20	15.00	42.00	16.00	125.00
0415	L40650E	39950	70420.22	21668.83	.30	2.50	23.00	21.00	123.00
0415	L40650E	39975	70431.56	21692.60	.20	2.50	13.00	16.00	62.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0415	L40700E	39700	70149.99	21516.74	.60	5.00	93.00	18.00	225.00
0415	L40700E	39725	70170.34	21533.94	.80	10.00	140.00	18.00	157.00
0415	L40700E	39750	70190.67	21551.15	1.00	2.50	65.00	17.00	151.00
0416	L40700E	39925	70333.05	21671.57	.20	25.00	31.00	13.00	118.00
0416	L40700E	39950	70353.40	21688.77	.50	25.00	72.00	17.00	108.00
0416	L40700E	39975	70373.73	21705.98	.30	20.00	51.00	13.00	104.00
0416	L40700E	40000	70394.08	21723.18	.10	20.00	51.00	10.00	67.00
0416	L40700E	40025	70415.37	21758.72	.10	20.00	23.00	10.00	164.00
0416	L40700E	40050	70436.66	21794.26	.10	45.00	35.00	10.00	92.00
0416	L40700E	40075	70450.82	21812.33	.10	25.00	53.00	12.00	214.00
0416	L40700E	40100	70464.99	21830.40	.20	40.00	47.00	11.00	124.00
0416	L40700E	40125	70479.16	21848.47	.10	60.00	40.00	10.00	102.00
0416	L40700E	40150	70493.32	21866.54	.20	25.00	26.00	12.00	128.00
0416	L40700E	40175	70507.49	21884.62	.20	30.00	34.00	12.00	111.00
0416	L40700E	40200	70521.66	21902.69	.20	15.00	31.00	15.00	170.00
0416	L40700E	40225	70535.82	21920.76	.10	30.00	54.00	14.00	125.00
0416	L40700E	40250	70549.98	21938.83	.60	2.50	50.00	17.00	163.00
0416	L40700E	40275	70564.16	21956.90	.20	2.50	200.00	36.00	130.00
0416	L40700E	40300	70578.32	21974.97	.30	275.00	214.00	23.00	102.00
0416	L40700E	40325	70592.48	21993.04	.20	15.00	34.00	10.00	111.00
0415	L40750E	39825	70204.37	21646.61	1.10	5.00	62.00	20.00	153.00
0415	L40750E	39850	70223.32	21665.01	.40	5.00	54.00	24.00	158.00
0415	L40750E	39875	70242.28	21683.41	.60	10.00	80.00	22.00	150.00
0415	L40750E	39900	70261.23	21701.82	.50	2.50	59.00	17.00	135.00
0415	L40750E	39925	70280.20	21720.22	.30	35.00	48.00	14.00	105.00
0415	L40750E	39950	70299.15	21738.62	.20	30.00	60.00	21.00	88.00
0415	L40750E	39975	70318.11	21757.03	.30	10.00	62.00	22.00	101.00
0415	L40750E	40000	70337.06	21775.43	.30	50.00	31.00	16.00	70.00
0415	L40750E	40025	70369.84	21781.68	.40	30.00	13.00	7.00	69.00
0415	L40750E	40050	70387.30	21803.22	.30	25.00	44.00	18.00	110.00
0415	L40750E	40075	70404.77	21824.76	.20	15.00	46.00	14.00	187.00
0415	L40750E	40100	70422.23	21846.30	.20	5.00	60.00	39.00	151.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0415	L40750E	40125	70439.70	21867.85	.30	80.00	30.00	13.00	143.00
0415	L40750E	40150	70457.16	21889.39	.40	2.50	23.00	13.00	135.00
0415	L40750E	40175	70474.63	21910.93	.40	10.00	48.00	22.00	128.00
0415	L40750E	40200	70492.09	21932.47	.40	20.00	51.00	16.00	129.00
0415	L40750E	40225	70509.55	21954.01	1.00	2.50	40.00	11.00	145.00
0415	L40750E	40250	70527.02	21975.56	.30	2.50	27.00	12.00	160.00
0415	L40750E	40275	70544.48	21997.10	.30	2.50	27.00	13.00	177.00
0415	L40750E	40300	70561.95	22018.64	.50	75.00	100.00	22.00	157.00
0415	L40750E	40325	70579.41	22040.18	.30	2345.00	110.00	52.00	72.00
0415	L40800E	39850	70206.30	21681.78	.20	15.00	54.00	15.00	122.00
0415	L40800E	39875	70225.51	21699.58	.30	25.00	36.00	16.00	142.00
0415	L40800E	39900	70244.72	21717.37	.50	15.00	44.00	19.00	170.00
0415	L40800E	39925	70263.93	21735.16	.20	2.50	47.00	16.00	86.00
0415	L40800E	39950	70283.15	21752.95	.30	5.00	40.00	15.00	115.00
0415	L40800E	39975	70302.36	21770.75	.30	2.50	16.00	18.00	101.00
0415	L40800E	40000	70321.57	21788.54	.30	5.00	30.00	7.00	85.00
0415	L40800E	40025	70340.73	21808.90	.40	2.50	27.00	15.00	133.00
0415	L40800E	40050	70359.88	21829.26	.20	20.00	23.00	5.00	83.00
0415	L40800E	40075	70379.04	21849.63	.10	140.00	76.00	20.00	120.00
0415	L40800E	40100	70398.20	21869.99	.10	10.00	50.00	6.00	67.00
0415	L40800E	40125	70417.34	21890.35	.20	20.00	41.00	10.00	88.00
0415	L40800E	40150	70436.50	21910.71	.50	20.00	32.00	16.00	173.00
0415	L40800E	40175	70455.66	21931.07	.50	2.50	18.00	22.00	152.00
0415	L40800E	40200	70474.81	21951.44	.40	2.50	40.00	14.00	165.00
0415	L40800E	40225	70493.97	21971.80	.40	5.00	31.00	13.00	135.00
0415	L40800E	40250	70513.13	21992.16	.30	125.00	67.00	10.00	105.00
0415	L40800E	40275	70532.28	22012.52	.50	2.50	43.00	33.00	220.00
0415	L40800E	40300	70551.44	22032.89	.50	2.50	29.00	17.00	201.00
0415	L40800E	40325	70570.59	22053.25	.50	2.50	18.00	10.00	145.00
0415	L40850E	40050	70316.65	21865.66	.20	2.50	25.00	18.00	120.00
0415	L40850E	40075	70333.07	21886.35	.30	2.50	29.00	15.00	112.00
0415	L40850E	40100	70349.49	21907.04	.40	2.50	32.00	12.00	150.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0415	L40850E	40125	70365.91	21927.73	.10	2.50	47.00	13.00	125.00
0415	L40850E	40150	70382.33	21948.42	.30	2.50	24.00	9.00	113.00
0415	L40850E	40175	70398.75	21969.11	.20	2.50	18.00	8.00	65.00
0415	L40850E	40200	70415.17	21989.80	.30	2.50	81.00	12.00	135.00
0415	L40850E	40225	70431.59	22010.49	.20	30.00	72.00	9.00	98.00
0415	L40850E	40250	70448.01	22031.18	.30	2.50	27.00	10.00	84.00
0415	L40850E	40275	70464.43	22051.87	.50	25.00	30.00	15.00	113.00
0415	L40850E	40300	70480.85	22072.56	.40	2.50	31.00	18.00	145.00
0415	L40850E	40325	70497.27	22093.25	.40	2.50	60.00	30.00	217.00
0415	L40900E	40125	70345.96	21964.05	.20	2.50	36.00	25.00	166.00
0415	L40900E	40150	70362.33	21984.63	.30	5.00	72.00	15.00	112.00
0415	L40900E	40175	70378.69	22005.21	.20	2.50	26.00	12.00	115.00
0415	L40900E	40200	70395.05	22025.79	.10	15.00	6.00	16.00	39.00
0415	L40900E	40225	70411.42	22046.37	.10	5.00	24.00	18.00	96.00
0415	L40900E	40250	70427.79	22066.95	.10	25.00	44.00	16.00	95.00
0415	L40900E	40275	70444.16	22087.52	.10	80.00	21.00	16.00	67.00
0415	L40900E	40300	70460.52	22108.10	.40	25.00	23.00	24.00	65.00
0415	L40900E	40325	70476.89	22128.68	.30	10.00	63.00	19.00	176.00
0415	L40950E	40125	70287.77	22012.81	.20	5.00	26.00	23.00	190.00
0415	L40950E	40150	70305.10	22032.15	.10	10.00	17.00	15.00	92.00
0415	L40950E	40175	70322.43	22051.48	.10	25.00	47.00	13.00	80.00
0415	L40950E	40200	70339.76	22070.82	.10	10.00	23.00	13.00	108.00
0415	L40950E	40225	70357.09	22090.16	.20	25.00	16.00	17.00	118.00
0415	L40950E	40250	70374.41	22109.50	.30	30.00	50.00	18.00	137.00
0415	L40950E	40275	70391.74	22128.83	.20	15.00	55.00	16.00	150.00
0415	L40950E	40300	70409.07	22148.17	.20	2.50	56.00	18.00	117.00
0415	L40950E	40325	70426.40	22167.51	.30	2.50	26.00	13.00	250.00
0415	L41000E	39725	69974.09	21733.59	.10	10.00	41.00	12.00	106.00
0415	L41000E	39750	69993.95	21751.18	.10	25.00	62.00	22.00	340.00
0415	L41000E	39775	70013.81	21768.77	.10	20.00	21.00	6.00	210.00
0415	L41000E	40075	70221.91	21997.72	.10	110.00	38.00	8.00	94.00
0415	L41000E	40100	70239.29	22017.60	.30	35.00	29.00	13.00	104.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0415	L41000E	40125	70256.68	22037.47	.20	67.00	70.00	45.00	102.00
0415	L41000E	40150	70274.06	22057.34	.30	15.00	10.00	10.00	54.00
0415	L41000E	40175	70291.45	22077.22	.30	15.00	12.00	4.00	72.00
0415	L41000E	40200	70308.83	22097.09	.20	15.00	22.00	15.00	125.00
0415	L41000E	40225	70326.21	22116.97	.20	25.00	41.00	10.00	159.00
0415	L41000E	40250	70343.59	22136.84	.20	50.00	60.00	14.00	74.00
0415	L41000E	40275	70360.98	22156.71	.20	20.00	44.00	8.00	110.00
0415	L41000E	40300	70378.37	22176.59	.20	85.00	26.00	4.00	58.00
0415	L41000E	40325	70395.75	22196.46	.30	30.00	133.00	12.00	168.00
0416	L41050E	39825	70019.73	21832.65	.20	35.00	48.00	12.00	265.00
0416	L41050E	39850	70037.76	21850.87	.20	20.00	44.00	11.00	240.00
0416	L41050E	39875	70055.79	21869.09	.10	10.00	16.00	7.00	148.00
0416	L41050E	39900	70073.82	21887.31	.20	10.00	19.00	10.00	140.00
0416	L41050E	39925	70091.85	21905.54	.10	2.50	28.00	9.00	175.00
0416	L41050E	39950	70109.88	21923.76	.10	2.50	38.00	9.00	155.00
0416	L41050E	40000	70132.03	21964.52	.10	15.00	59.00	11.00	174.00
0416	L41050E	40200	70274.41	22117.44	.10	10.00	36.00	14.00	97.00
0416	L41050E	40225	70292.21	22136.56	.10	2.50	26.00	9.00	92.00
0416	L41050E	40250	70310.01	22155.68	.20	2.50	15.00	10.00	76.00
0416	L41050E	40275	70327.80	22174.79	.20	20.00	37.00	6.00	106.00
0416	L41050E	40300	70345.60	22193.91	.10	510.00	64.00	10.00	90.00
0416	L41050E	40325	70363.40	22213.02	.20	30.00	40.00	10.00	107.00
0416	L41100E	39950	70076.68	21949.41	.20	25.00	51.00	10.00	147.00
0416	L41100E	39975	70087.73	21970.23	.10	10.00	49.00	12.00	126.00
0416	L41100E	40000	70098.78	21991.06	.10	2.50	46.00	12.00	166.00
0416	L41100E	40025	70113.39	22012.53	.10	30.00	47.00	13.00	300.00
0416	L41100E	40050	70128.00	22034.00	.10	60.00	40.00	10.00	147.00
0416	L41100E	40075	70145.72	22052.77	.20	25.00	32.00	11.00	186.00
0416	L41100E	40100	70163.45	22071.54	.20	70.00	19.00	9.00	85.00
0416	L41100E	40125	70181.16	22090.30	.20	2.50	24.00	8.00	124.00
0416	L41100E	40150	70198.89	22109.07	.10	15.00	30.00	9.00	72.00
0416	L41100E	40175	70216.61	22127.84	.30	2.50	18.00	10.00	109.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0416	L41100E	40200	70234.33	22146.61	.30	2.50	45.00	12.00	179.00
0416	L41100E	40225	70252.05	22165.37	.40	2.50	40.00	32.00	133.00
0416	L41100E	40250	70269.77	22184.14	.20	2.50	23.00	12.00	158.00
0416	L41100E	40275	70287.49	22202.91	.20	2.50	37.00	13.00	96.00
0416	L41100E	40300	70305.22	22221.67	.10	2.50	18.00	10.00	110.00
0416	L41100E	40325	70322.94	22240.44	.20	2.50	34.00	12.00	120.00
0416	L41100E	40350	70340.66	22259.21	.30	2.50	24.00	11.00	102.00
0416	L41100E	40375	70358.38	22277.98	.70	2.50	27.00	20.00	265.00
0416	L41100E	40400	70376.10	22296.74	.20	20.00	25.00	12.00	167.00
0416	L41150E	40200	70200.04	22179.35	.10	2.50	29.00	10.00	133.00
0416	L41150E	40225	70216.94	22198.84	.10	2.50	28.00	9.00	100.00
0416	L41150E	40250	70233.84	22218.33	.20	2.50	38.00	10.00	108.00
0416	L41150E	40275	70250.75	22237.82	.20	2.50	67.00	7.00	100.00
0416	L41150E	40300	70267.66	22257.32	.20	2.50	19.00	8.00	86.00
0416	L41150E	40325	70284.56	22276.81	.10	75.00	29.00	8.00	62.00
0416	L41150E	40350	70301.47	22296.30	.30	20.00	31.00	13.00	134.00
0416	L41150E	40400	70335.28	22335.29	.30	60.00	30.00	21.00	270.00
0416	L41250E	40050	70018.98	22133.32	.10	15.00	26.00	10.00	148.00
0416	L41250E	40075	70034.70	22153.02	.20	35.00	67.00	14.00	75.00
0416	L41250E	40100	70050.42	22172.72	.10	30.00	31.00	18.00	60.00
0416	L41250E	40125	70066.14	22192.43	.30	20.00	35.00	14.00	88.00
0416	L41250E	40150	70081.87	22212.13	.50	20.00	39.00	12.00	93.00
0416	L41250E	40175	70097.59	22231.83	.60	30.00	48.00	14.00	240.00
0416	L41250E	40200	70113.31	22251.54	.30	25.00	39.00	12.00	178.00
0416	L41250E	40225	70129.03	22271.24	.20	60.00	20.00	9.00	76.00
0416	L41250E	40250	70144.75	22290.94	.10	55.00	36.00	11.00	105.00
0416	L41250E	40275	70160.48	22310.65	.10	220.00	18.00	10.00	73.00
0416	L41250E	40300	70176.20	22330.35	.10	270.00	58.00	10.00	85.00
0416	L41250E	40325	70191.92	22350.05	.20	25.00	25.00	9.00	56.00
0416	L41250E	40350	70207.64	22369.76	.10	25.00	44.00	12.00	81.00
0416	L41250E	40375	70223.37	22389.46	.10	30.00	29.00	10.00	79.00
0416	L41250E	40400	70239.09	22409.16	.70	15.00	64.00	13.00	144.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0416	L41250E	40425	70254.81	22428.87	.40	2.50	19.00	10.00	74.00
0416	L41250E	40450	70270.53	22448.57	.40	2.50	53.00	13.00	127.00
0416	L41300E	40250	70120.03	22315.27	.30	40.00	51.00	11.00	187.00
0416	L41300E	40275	70135.13	22335.39	.50	40.00	20.00	9.00	50.00
0416	L41300E	40300	70150.23	22355.50	.20	115.00	51.00	10.00	160.00
0416	L41300E	40325	70165.33	22375.62	.30	30.00	40.00	8.00	116.00
0416	L41300E	40350	70180.42	22395.73	.20	70.00	12.00	7.00	41.00
0416	L41300E	40375	70195.52	22415.85	.20	30.00	41.00	10.00	95.00
0416	L41300E	40400	70210.63	22435.97	.40	25.00	65.00	21.00	82.00
0416	L41300E	40425	70225.72	22456.08	.40	40.00	40.00	10.00	91.00
0416	L41300E	40450	70240.82	22476.20	.30	45.00	36.00	10.00	103.00
0416	L41350E	40250	70067.47	22354.94	.60	25.00	33.00	10.00	243.00
0416	L41350E	40275	70084.92	22372.51	.40	50.00	40.00	11.00	100.00
0416	L41350E	40300	70102.37	22390.08	1.00	2.50	85.00	15.00	208.00
0416	L41350E	40325	70119.81	22407.66	.20	5.00	27.00	9.00	77.00
0416	L41350E	40350	70137.26	22425.23	.40	30.00	92.00	12.00	106.00
0416	L41350E	40375	70154.70	22442.80	.20	2.50	26.00	33.00	80.00
0416	L41350E	40400	70172.16	22460.38	.30	280.00	35.00	9.00	88.00
0416	L41350E	40425	70189.60	22477.95	.30	30.00	38.00	9.00	85.00
0416	L41350E	40450	70207.05	22495.52	.40	60.00	50.00	10.00	95.00
0416	L41400E	39550	69542.76	21881.64	.20	25.00	48.00	11.00	86.00
0416	L41400E	39575	69558.88	21901.66	.40	2.50	35.00	15.00	133.00
0416	L41400E	39600	69575.00	21921.68	.10	2.50	34.00	8.00	77.00
0416	L41400E	39625	69591.12	21941.70	.40	2.50	35.00	10.00	107.00
0416	L41450E	39550	69522.14	21898.52	.20	2.50	24.00	11.00	132.00
0416	L41450E	39575	69539.91	21916.50	.20	2.50	51.00	11.00	85.00
0416	L41450E	39600	69557.66	21934.49	.20	20.00	38.00	13.00	82.00
0416	L41450E	39625	69575.42	21952.47	.50	2.50	29.00	13.00	153.00
0416	L41450E	39650	69593.19	21970.45	.20	2.50	60.00	11.00	94.00
0416	L41450E	39675	69610.95	21988.44	.10	20.00	26.00	8.00	110.00
0416	L41450E	39700	69628.71	22006.42	.10	2.50	55.00	8.00	105.00
0416	L41450E	39800	69699.76	22078.35	.20	2.50	70.00	14.00	112.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0416	L41450E	39825	69717.52	22096.33	.20	2.50	35.00	7.00	87.00
0416	L41450E	39850	69735.28	22114.32	.20	30.00	25.00	8.00	116.00
0416	L41450E	39875	69753.05	22132.30	.20	25.00	30.00	9.00	102.00
0416	L41450E	39900	69770.80	22150.28	.60	35.00	45.00	14.00	222.00
0416	L41450E	39925	69788.56	22168.27	.60	15.00	39.00	11.00	135.00
0416	L41450E	39950	69806.33	22186.25	.30	2.50	24.00	8.00	116.00
0416	L41450E	39975	69821.91	22206.42	.30	120.00	77.00	10.00	145.00
0416	L41450E	40000	69837.48	22226.59	.30	2.50	29.00	11.00	184.00
0416	L41450E	40025	69855.83	22245.11	.50	2.50	75.00	14.00	180.00
0416	L41450E	40225	69981.69	22399.82	.50	2.50	81.00	17.00	107.00
0416	L41450E	40250	69997.05	22419.28	.40	2.50	45.00	10.00	148.00
0416	L41450E	40275	70012.41	22438.74	.40	2.50	21.00	10.00	207.00
0416	L41450E	40300	70027.77	22458.19	1.40	70.00	81.00	17.00	336.00
0416	L41450E	40375	70073.84	22516.56	.20	2.50	44.00	15.00	150.00
0416	L41450E	40400	70089.19	22536.02	.20	2.50	41.00	14.00	164.00
0416	L41500E	39775	69645.57	22094.64	.40	2.50	47.00	13.00	155.00
0416	L41500E	39800	69662.53	22113.51	.20	2.50	49.00	10.00	130.00
0416	L41500E	39825	69679.49	22132.37	.20	20.00	27.00	8.00	130.00
0416	L41500E	39850	69696.45	22151.24	.20	15.00	21.00	8.00	126.00
0416	L41500E	39875	69713.41	22170.11	.10	135.00	18.00	9.00	109.00
0416	L41500E	39900	69730.37	22188.98	.30	15.00	43.00	8.00	136.00
0416	L41500E	39925	69747.33	22207.84	.10	2.50	9.00	4.00	47.00
0416	L41500E	39950	69764.29	22226.71	.10	30.00	48.00	7.00	87.00
0416	L41500E	39975	69780.97	22242.89	.10	15.00	36.00	13.00	145.00
0416	L41500E	40000	69797.65	22259.08	.20	2.50	38.00	8.00	96.00
0416	L41500E	40025	69816.82	22274.72	.50	2.50	32.00	11.00	136.00
0416	L41500E	40225	69952.03	22424.85	.30	30.00	30.00	13.00	150.00
0416	L41500E	40250	69968.61	22444.06	.20	2.50	24.00	9.00	90.00
0416	L41500E	40275	69985.18	22463.27	.30	55.00	26.00	10.00	143.00
0416	L41500E	40300	70001.76	22482.48	.30	5.00	36.00	10.00	195.00
0416	L41500E	40350	70034.91	22520.91	.40	2.50	16.00	9.00	130.00
0416	L41500E	40375	70051.49	22540.12	.10	20.00	75.00	12.00	150.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0416	L41500E	40400	70068.06	22559.33	.10	2.50	46.00	12.00	69.00
0416	L41500E	40425	70084.64	22578.55	.20	2.50	51.00	9.00	80.00
0416	L41500E	40450	70101.22	22597.76	.10	2.50	34.00	30.00	90.00
0416	L41550E	39975	69739.13	22275.04	.20	2.50	20.00	6.00	95.00
0416	L41550E	40000	69763.32	22289.16	.10	15.00	49.00	8.00	124.00
0416	L41550E	40025	69780.88	22305.84	.60	150.00	29.00	5.00	84.00
0416	L41550E	40050	69798.42	22322.52	.10	40.00	36.00	8.00	84.00
0416	L41550E	40200	69892.62	22438.69	.60	2.50	24.00	10.00	160.00
0416	L41550E	40225	69908.31	22458.05	.40	2.50	36.00	9.00	120.00
0416	L41550E	40250	69924.02	22477.41	.40	15.00	32.00	12.00	160.00
0416	L41550E	40275	69939.72	22496.78	.60	2.50	29.00	11.00	121.00
0416	L41550E	40300	69955.41	22516.14	.30	2.50	46.00	12.00	122.00
0416	L41550E	40325	69971.11	22535.50	.40	2.50	31.00	10.00	101.00
0416	L41550E	40350	69986.81	22554.86	.40	30.00	88.00	11.00	231.00
0416	L41550E	40375	70002.52	22574.22	.20	260.00	27.00	9.00	67.00
0416	L41550E	40400	70018.21	22593.59	.20	820.00	56.00	14.00	135.00
0416	L41550E	40425	70033.91	22612.95	.10	30.00	35.00	16.00	68.00
0416	L41550E	40450	70049.61	22632.31	.30	10.00	70.00	14.00	100.00
0416	L41600E	39825	69608.07	22189.08	.40	2.50	33.00	10.00	192.00
0416	L41600E	39850	69624.41	22208.26	.90	110.00	323.00	27.00	145.00
0416	L41600E	39875	69640.77	22227.45	.30	2.50	35.00	11.00	140.00
0416	L41600E	39900	69657.11	22246.64	.30	2.50	22.00	11.00	161.00
0416	L41600E	39925	69673.46	22265.83	.10	2.50	11.00	8.00	70.00
0416	L41600E	39950	69689.80	22285.02	.30	50.00	61.00	13.00	176.00
0416	L41600E	40375	69959.52	22606.62	.80	2.50	55.00	15.00	365.00
0416	L41600E	40400	69974.65	22625.47	.30	2.50	43.00	11.00	170.00
0416	L41600E	40425	69989.79	22644.33	.20	10.00	50.00	9.00	79.00
0416	L41600E	40450	70004.92	22663.18	.50	60.00	104.00	82.00	91.00
0416	L41650E	39875	69596.81	22258.94	.50	2.50	30.00	10.00	112.00
0416	L41650E	39900	69614.06	22278.60	.60	20.00	31.00	10.00	200.00
0416	L41650E	39925	69631.31	22298.26	.30	2.50	26.00	14.00	173.00
0416	L41650E	39950	69648.55	22317.92	.20	35.00	45.00	15.00	123.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0416	L41650E	39975	69665.80	22337.58	.20	65.00	17.00	11.00	103.00
0416	L41650E	40000	69683.05	22357.24	.80	50.00	59.00	15.00	146.00
0416	L41650E	40025	69705.49	22370.36	.40	2.50	33.00	10.00	94.00
0416	L41650E	40050	69727.94	22383.48	.30	20.00	32.00	9.00	110.00
0416	L41650E	40075	69743.22	22402.31	.30	40.00	45.00	11.00	150.00
0416	L41650E	40100	69758.49	22421.15	.60	2.50	120.00	10.00	180.00
0416	L41650E	40125	69773.77	22439.98	.40	10.00	56.00	53.00	253.00
0416	L41650E	40150	69789.05	22458.82	.80	2.50	101.00	11.00	180.00
0416	L41700E	39900	69569.43	22302.19	.70	2.50	41.00	8.00	167.00
0416	L41700E	39925	69588.68	22326.80	.40	2.50	43.00	12.00	200.00
0416	L41700E	39950	69607.92	22351.41	.50	10.00	36.00	14.00	234.00
0416	L41700E	39975	69627.45	22368.87	.20	15.00	48.00	10.00	100.00
0416	L41700E	40000	69646.98	22386.33	.10	195.00	53.00	10.00	72.00
0416	L41700E	40025	69660.34	22410.21	.20	130.00	29.00	9.00	194.00
0416	L41700E	40050	69673.70	22434.08	.10	100.00	41.00	9.00	106.00
0416	L41700E	40075	69690.00	22452.74	.20	10.00	59.00	11.00	230.00
0416	L41750E	39575	69299.70	22050.96	.30	2.50	33.00	12.00	123.00
0416	L41750E	39600	69317.44	22073.29	.30	2.50	37.00	10.00	84.00
0416	L41750E	39625	69335.17	22095.63	.30	2.50	33.00	9.00	104.00
0416	L41750E	39650	69352.91	22117.97	.30	2.50	61.00	10.00	94.00
0416	L41750E	39675	69370.64	22140.31	.30	2.50	26.00	12.00	109.00
0416	L41800E	39925	69519.26	22394.84	.40	2.50	38.00	15.00	144.00
0416	L41800E	39950	69535.38	22414.42	.70	2.50	75.00	17.00	115.00
0416	L41800E	39975	69551.52	22433.99	.50	2.50	55.00	10.00	116.00
0416	L41800E	40200	69698.66	22594.70	.50	100.00	48.00	11.00	180.00
0416	L41800E	40225	69715.03	22612.34	.60	2.50	39.00	29.00	135.00
0416	L41800E	40250	69731.41	22629.97	.50	2.50	23.00	9.00	155.00
0416	L41800E	40275	69747.79	22647.62	.50	2.50	38.00	10.00	100.00
0416	L41800E	40300	69764.16	22665.26	.40	2.50	20.00	9.00	112.00
0416	L41850E	39650	69320.76	22204.04	.40	2.50	64.00	11.00	95.00
0416	L41850E	39675	69335.27	22224.10	.30	2.50	26.00	10.00	108.00
0416	L41850E	39700	69349.78	22244.15	.20	2.50	56.00	8.00	103.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0416	L41850E	39725	69364.30	22264.21	.70	2.50	46.00	7.00	172.00
0416	L41850E	39750	69378.81	22284.27	.30	2.50	67.00	8.00	107.00
0416	L41850E	39950	69494.91	22444.72	.40	2.50	48.00	13.00	243.00
0416	L41850E	39975	69516.20	22462.73	.50	2.50	47.00	10.00	163.00
0416	L41850E	40000	69537.51	22480.73	.50	10.00	37.00	9.00	228.00
0416	L41850E	40025	69554.36	22498.85	.60	2.50	38.00	7.00	185.00
0416	L41850E	40050	69571.21	22516.96	.60	30.00	35.00	5.00	142.00
0416	L41850E	40075	69588.06	22535.08	.50	110.00	52.00	8.00	103.00
0416	L41850E	40100	69604.91	22553.19	.40	105.00	34.00	6.00	117.00
0416	L41850E	40125	69621.77	22571.31	.40	60.00	96.00	6.00	117.00
0416	L41850E	40150	69638.62	22589.42	1.00	70.00	140.00	17.00	307.00
0416	L41850E	40175	69655.47	22607.54	.50	2.50	34.00	5.00	82.00
0416	L41850E	40200	69672.32	22625.65	.70	65.00	61.00	8.00	224.00
0416	L41850E	40225	69689.17	22643.77	.60	25.00	65.00	8.00	210.00
0416	L41850E	40250	69706.02	22661.89	.50	10.00	65.00	14.00	148.00
0416	L41850E	40275	69722.87	22680.00	.40	20.00	41.00	9.00	112.00
0416	L41850E	40300	69739.72	22698.12	.20	2.50	69.00	11.00	98.00
0416	L41850E	40325	69756.57	22716.23	.30	5.00	43.00	13.00	116.00
0416	L41850E	40350	69773.42	22734.35	.50	2.50	90.00	13.00	230.00
0416	L41900E	39950	69469.25	22463.58	.30	45.00	59.00	15.00	152.00
0416	L41900E	39975	69481.63	22489.20	.10	30.00	55.00	16.00	137.00
0416	L41900E	40000	69494.00	22514.82	.30	20.00	51.00	16.00	180.00
0416	L41900E	40025	69515.98	22528.36	.30	15.00	50.00	16.00	305.00
0416	L41950E	39825	69334.87	22421.63	.30	2.50	55.00	14.00	295.00
0416	L41950E	39850	69349.38	22441.86	.30	20.00	50.00	13.00	247.00
0416	L41950E	39875	69363.88	22462.08	.20	2.50	20.00	13.00	156.00
0416	L41950E	39900	69378.38	22482.31	.30	2.50	20.00	14.00	146.00
0416	L41950E	40000	69454.92	22550.04	.20	2.50	48.00	15.00	175.00
0416	L41950E	40025	69475.77	22563.75	.30	2.50	51.00	16.00	305.00
0416	L41950E	40050	69496.61	22577.46	.30	10.00	43.00	14.00	154.00
0416	L41950E	40075	69513.18	22595.18	.60	30.00	35.00	13.00	189.00
0416	L41950E	40100	69529.75	22612.91	.40	35.00	24.00	10.00	93.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0416	L41950E	40125	69546.32	22630.63	.20	595.00	26.00	12.00	120.00
0416	L41950E	40150	69562.89	22648.35	.20	135.00	31.00	11.00	72.00
0416	L41950E	40175	69579.45	22666.07	.40	15.00	19.00	11.00	101.00
0416	L41950E	40200	69596.02	22683.79	.40	2.50	45.00	12.00	173.00
0416	L41950E	40225	69612.59	22701.52	.40	2.50	41.00	32.00	130.00
0416	L42000E	39825	69296.39	22445.14	.20	195.00	35.00	9.00	86.00
0416	L42000E	39850	69310.44	22465.63	.20	5.00	25.00	11.00	120.00
0416	L42000E	39875	69324.48	22486.11	.30	2.50	29.00	11.00	102.00
0416	L42000E	39900	69338.52	22506.59	.60	20.00	48.00	16.00	232.00
0416	L42000E	39925	69352.56	22527.07	.70	150.00	44.00	12.00	150.00
0416	L42000E	40225	69574.77	22735.71	.40	40.00	43.00	34.00	134.00
0416	L42000E	40250	69591.69	22753.87	.30	30.00	24.00	13.00	147.00
0416	L42000E	40275	69608.60	22772.03	.40	2.50	38.00	13.00	92.00
0415	L40100N	41850	69250.05	22673.03	.70	2.50	38.00	12.00	240.00
0415	L40100N	41875	69277.27	22673.04	.40	70.00	25.00	8.00	82.00
0415	L40100N	41900	69304.49	22673.04	.40	125.00	40.00	12.00	142.00
0415	L40100N	41925	69331.71	22673.05	.50	20.00	41.00	13.00	208.00
0415	L40200N	42000	69412.89	22779.61	.50	10.00	48.00	13.00	155.00
0415	L40200N	42025	69438.87	22778.61	.50	100.00	45.00	7.00	91.00
0415	L40200N	42050	69464.84	22777.60	.10	15.00	17.00	6.00	56.00
0415	L40200N	42075	69490.82	22776.60	.60	25.00	36.00	14.00	153.00
0415	L40200N	42100	69516.80	22775.60	.70	140.00	67.00	9.00	103.00
0415	L40200N	42125	69542.77	22774.59	.40	30.00	37.00	12.00	128.00
0415	L40300N	41725	69114.44	22874.92	.30	35.00	15.00	9.00	107.00
0415	L40300N	41750	69141.65	22875.07	.30	60.00	13.00	9.00	68.00
0415	L40300N	41775	69168.86	22875.22	.20	140.00	12.00	9.00	68.00
0415	L40300N	41800	69196.07	22875.37	.30	30.00	122.00	15.00	130.00
0415	L40300N	41825	69223.27	22875.52	.40	685.00	19.00	11.00	150.00
0415	L40300N	42325	69728.59	22859.82	.50	2.50	24.00	10.00	240.00
0415	L40300N	42350	69752.81	22858.53	.80	15.00	80.00	12.00	275.00
0415	L40300N	42375	69777.03	22857.24	.40	35.00	20.00	18.00	116.00
0415	L40400N	41750	69162.82	22985.06	.30	2.50	21.00	19.00	60.00

BOGG PROPERTY 1990 SOILS ASSAYS

PROJ	GRID COORDINATES LINE	STATION	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0415	L40400N	41775	69187.90	22984.07	.50	65.00	41.00	10.00	195.00
0415	L40400N	41800	69212.98	22983.08	.40	300.00	91.00	6.00	65.00
0415	L40400N	41825	69238.05	22982.09	.40	2.50	23.00	8.00	180.00
0415	L40400N	41850	69263.13	22981.10	.40	10.00	37.00	24.00	206.00
0415	L40400N	42475	69899.64	22945.19	.40	2.50	28.00	13.00	128.00
0415	L40400N	42500	69925.22	22943.61	.60	2.50	27.00	12.00	136.00
0415	L40400N	42525	69940.27	22954.34	.20	2.50	29.00	9.00	82.00
0415	L40500N	42025	69439.62	23077.55	1.00	2.50	26.00	11.00	125.00
0415	L40500N	42050	69464.69	23077.00	.60	2.50	49.00	13.00	64.00
0415	L40500N	42075	69489.77	23076.45	.50	20.00	14.00	8.00	50.00
0415	L40500N	42200	69615.13	23073.70	.60	2.50	25.00	15.00	230.00
0415	L40500N	42225	69640.20	23073.15	.50	2.50	37.00	13.00	145.00
0415	L40500N	42250	69672.66	22769.57	.30	2.50	40.00	14.00	97.00
0415	L40500N	42275	69690.34	23072.05	.30	430.00	61.00	19.00	93.00
0415	L40500N	42300	69715.41	23071.50	.40	2.50	49.00	16.00	96.00
0415	L40500N	42325	69740.48	23070.95	.40	5.00	56.00	18.00	130.00
0415	L40600N	42025	69439.52	23174.55	.60	15.00	73.00	18.00	350.00
0415	L40600N	42050	69465.05	23174.17	.20	35.00	26.00	12.00	45.00
0415	L40600N	42075	69490.58	23173.79	.40	212.00	75.00	16.00	110.00
0415	L40600N	42100	69516.11	23173.40	.20	155.00	71.00	11.00	70.00
0415	L40700N	42150	69563.51	23256.63	.20	2.50	57.00	14.00	90.00
0415	L40700N	42175	69588.44	23253.43	.30	15.00	28.00	11.00	100.00
0415	L40700N	42200	69613.36	23250.23	.10	10.00	67.00	17.00	95.00
0415	L40700N	42225	69638.29	23247.03	.30	2.50	56.00	23.00	107.00
0415	L40700N	42250	69663.22	23243.84	.30	2.50	66.00	32.00	97.00

BOGG PROPERTY - POOY GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES NORTH	GRID COORDINATES EAST	UTM COORDINATES EAST	UTM COORDINATES NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0520	L9800N	10000	672411.70	5715183.00	.40	10.00	73.00	15.00	130.00
0520	L9800N	10025	672436.20	5715182.00	.40	2.50	50.00	9.00	150.00
0520	L9800N	10050	672460.80	5715182.00	2.00	2.50	104.00	19.00	216.00
0520	L9800N	10075	672485.30	5715181.00	.70	2.50	72.00	12.00	183.00
0520	L9800N	10100	672509.80	5715181.00	.60	2.50	47.00	10.00	146.00
0520	L9800N	10125	672534.30	5715181.00	.60	2.50	61.00	10.00	121.00
0520	L9800N	10150	672558.90	5715180.00	.30	15.00	22.00	13.00	100.00
0520	L9800N	10175	672583.40	5715180.00	.20	2.50	18.00	13.00	68.00
0520	L9800N	10200	672607.90	5715179.00	.40	10.00	44.00	16.00	150.00
0520	L9800N	10225	672632.40	5715179.00	.20	2.50	27.00	12.00	91.00
0520	L9800N	10250	672656.90	5715179.00	.80	2.50	48.00	13.00	162.00
0520	L9800N	10275	672681.50	5715178.00	.30	2.50	28.00	9.00	120.00
0520	L9800N	10300	672706.00	5715178.00	.70	2.50	70.00	13.00	156.00
0520	L9800N	10325	672730.60	5715177.00	.50	5.00	43.00	12.00	110.00
0520	L9800N	10350	672755.10	5715177.00	.70	2.50	64.00	14.00	168.00
0520	L9800N	10375	672779.60	5715176.00	.40	10.00	32.00	9.00	100.00
0520	L9800N	10400	672804.10	5715176.00	.30	15.00	37.00	10.00	161.00
0520	L9800N	10425	672828.60	5715176.00	.50	15.00	26.00	10.00	170.00
0520	L9800N	10450	672853.20	5715175.00	.50	2.50	20.00	10.00	147.00
0520	L9800N	10475	672877.70	5715175.00	.60	2.50	40.00	12.00	170.00
0520	L9800N	10500	672902.30	5715174.00	.70	2.50	42.00	11.00	215.00
0520	L9800N	10525	672926.80	5715174.00	.50	2.50	35.00	12.00	246.00
0520	L9800N	10550	672951.30	5715174.00	.30	2.50	30.00	9.00	260.00
0520	L9800N	10575	672975.80	5715173.00	.50	2.50	48.00	11.00	222.00
0520	L9800N	10600	673000.30	5715173.00	.60	2.50	53.00	12.00	277.00
0520	L9800N	10650	673049.40	5715172.00	.60	2.50	54.00	14.00	248.00
0520	L9800N	10675	673073.90	5715171.00	.50	5.00	50.00	14.00	400.00
0520	L9800N	10700	673098.40	5715171.00	.40	2.50	23.00	11.00	235.00
0520	L9800N	10725	673123.00	5715171.00	.40	2.50	27.00	10.00	132.00
0520	L9800N	10750	673147.50	5715170.00	.60	2.50	48.00	11.00	271.00
0520	L9800N	10775	673172.00	5715170.00	.60	2.50	70.00	36.00	276.00
0520	L9800N	10800	673196.60	5715169.00	.70	2.50	41.00	15.00	194.00
0520	L9800N	10825	673221.10	5715169.00	.30	2.50	30.00	9.00	120.00

BOGG PROPERTY - POOY GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES NORTH	EAST	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0520	L9800N	10850	673245.60	5715169.00	.20	5.00	28.00	8.00	110.00
0520	L9800N	10875	673270.10	5715168.00	1.30	5.00	36.00	11.00	98.00
0520	L9800N	10900	673294.70	5715168.00	.70	2.50	29.00	12.00	143.00
0520	L9800N	11000	673392.80	5715166.00	.40	2.50	62.00	17.00	76.00
0520	L9800N	11025	673417.30	5715166.00	.40	2.50	53.00	16.00	93.00
0520	L9800N	11050	673441.80	5715165.00	.20	110.00	37.00	14.00	72.00
0520	L9800N	11075	673466.40	5715165.00	.20	2.50	63.00	16.00	82.00
0520	L9800N	11100	673490.90	5715164.00	.60	2.50	52.00	16.00	109.00
0520	L9800N	11125	673515.40	5715164.00	.40	2.50	35.00	16.00	83.00
0520	L9800N	11150	673539.90	5715164.00	.50	2.50	40.00	15.00	110.00
0520	L9800N	11175	673564.40	5715163.00	.40	95.00	90.00	18.00	100.00
0520	L9800N	11200	673589.00	5715163.00	.30	2.50	27.00	17.00	152.00
0520	L9800N	11225	673613.50	5715162.00	.30	2.50	36.00	13.00	158.00
0520	L9800N	11250	673638.10	5715162.00	.30	2.50	43.00	14.00	165.00
0520	L9800N	11275	673662.60	5715161.00	.50	175.00	32.00	12.00	222.00
0520	L9800N	11300	673687.10	5715161.00	.50	2.50	46.00	11.00	125.00
0520	L9800N	11325	673711.60	5715161.00	.40	2.50	31.00	13.00	144.00
0520	L9800N	11350	673736.10	5715160.00	.50	15.00	52.00	12.00	130.00
0520	L9800N	11375	673760.70	5715160.00	.60	70.00	60.00	14.00	162.00
0520	L9800N	11400	673785.20	5715159.00	.80	20.00	56.00	14.00	200.00
0520	L9800N	11425	673809.80	5715159.00	.40	20.00	45.00	13.00	113.00
0520	L9800N	11450	673834.30	5715159.00	.60	2.50	74.00	17.00	261.00
0520	L9800N	11475	673858.80	5715158.00	.60	2.50	80.00	13.00	123.00
0520	L9800N	11500	673883.30	5715158.00	.30	2.50	30.00	10.00	88.00
0520	L10000N	10000	672384.40	5715323.00	.40	2.50	29.00	9.00	107.00
0520	L10000N	10025	672409.40	5715323.00	.60	2.50	24.00	7.00	80.00
0520	L10000N	10050	672434.30	5715322.00	.40	2.50	43.00	11.00	157.00
0520	L10000N	10075	672459.30	5715322.00	1.00	2.50	134.00	18.00	222.00
0520	L10000N	10125	672509.20	5715322.00	.60	2.50	87.00	10.00	58.00
0520	L10000N	10150	672534.10	5715322.00	.50	2.50	50.00	10.00	103.00
0520	L10000N	10175	672559.10	5715321.00	1.00	2.50	37.00	11.00	162.00
0520	L10000N	10200	672584.00	5715321.00	.60	2.50	71.00	11.00	106.00
0520	L10000N	10225	672609.00	5715321.00	.40	2.50	35.00	14.00	150.00
0520	L10000N	10250	672633.90	5715321.00	.50	2.50	46.00	11.00	131.00

BOGG PROPERTY - POOY GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES NORTH	EAST	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0520	L10000N	10275	672658.90	5715321.00	.40	2.50	28.00	9.00	80.00
0520	L10000N	10300	672683.80	5715321.00	.20	2.50	50.00	11.00	92.00
0520	L10000N	10325	672708.80	5715320.00	.40	2.50	50.00	10.00	109.00
0520	L10000N	10350	672733.80	5715320.00	.20	2.50	18.00	7.00	100.00
0520	L10000N	10375	672758.70	5715320.00	.40	2.50	36.00	12.00	154.00
0520	L10000N	10400	672783.60	5715320.00	.10	2.50	32.00	7.00	61.00
0520	L10000N	10425	672808.60	5715320.00	.30	2.50	24.00	10.00	114.00
0520	L10000N	10450	672833.50	5715319.00	.20	2.50	30.00	8.00	113.00
0520	L10000N	10475	672858.40	5715319.00	.30	2.50	27.00	9.00	102.00
0520	L10000N	10500	672883.40	5715319.00	.80	40.00	33.00	11.00	182.00
0520	L10000N	10525	672908.40	5715319.00	.20	2.50	57.00	13.00	120.00
0520	L10000N	10550	672933.30	5715319.00	1.00	2.50	57.00	17.00	230.00
0520	L10000N	10575	672958.30	5715319.00	.80	5.00	61.00	15.00	211.00
0520	L10000N	10600	672983.20	5715318.00	.40	2.50	45.00	15.00	245.00
0520	L10000N	10625	673008.20	5715318.00	.30	2.50	80.00	12.00	216.00
0520	L10000N	10650	673033.10	5715318.00	.80	2.50	35.00	11.00	288.00
0520	L10000N	10675	673058.10	5715318.00	.20	2.50	32.00	8.00	91.00
0520	L10000N	10700	673083.00	5715318.00	.70	465.00	52.00	15.00	120.00
0520	L10000N	10725	673107.90	5715317.00	.80	2.50	32.00	10.00	112.00
0520	L10000N	10750	673132.90	5715317.00	.30	2.50	52.00	9.00	112.00
0520	L10000N	10775	673157.90	5715317.00	.20	2.50	29.00	9.00	109.00
0520	L10000N	10800	673182.80	5715317.00	.50	2.50	18.00	8.00	66.00
0520	L10000N	10825	673207.80	5715317.00	.60	2.50	30.00	11.00	135.00
0520	L10000N	10875	673257.60	5715316.00	.70	2.50	88.00	23.00	165.00
0520	L10000N	10900	673282.60	5715316.00	.30	2.50	42.00	15.00	152.00
0520	L10000N	10925	673307.60	5715316.00	.40	2.50	41.00	16.00	95.00
0520	L10000N	10950	673332.50	5715316.00	.50	2.50	44.00	13.00	193.00
0520	L10000N	10975	673357.40	5715316.00	1.40	60.00	104.00	22.00	145.00
0520	L10000N	11000	673382.40	5715315.00	.40	10.00	51.00	17.00	98.00
0520	L10000N	11025	673407.40	5715315.00	.20	15.00	45.00	15.00	94.00
0520	L10000N	11050	673432.30	5715315.00	.70	2.50	108.00	20.00	96.00
0520	L10000N	11075	673457.30	5715315.00	1.00	20.00	100.00	21.00	91.00
0520	L10000N	11100	673482.20	5715315.00	.50	55.00	70.00	18.00	72.00
0520	L10000N	11125	673507.10	5715314.00	.20	120.00	58.00	16.00	77.00

BOGG PROPERTY - POOY GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES NORTH	EAST	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0520	L10000N	11150	673532.10	5715314.00	.20	2.50	34.00	10.00	100.00
0520	L10000N	11175	673557.10	5715314.00	.20	2.50	80.00	13.00	128.00
0520	L10000N	11200	673582.00	5715314.00	.20	2.50	48.00	11.00	210.00
0520	L10000N	11225	673606.90	5715314.00	.40	2.50	30.00	12.00	183.00
0520	L10000N	11250	673631.90	5715314.00	.30	2.50	28.00	10.00	76.00
0520	L10000N	11275	673656.80	5715313.00	.40	2.50	25.00	10.00	130.00
0520	L10000N	11300	673681.80	5715313.00	.30	2.50	16.00	6.00	52.00
0520	L10000N	11325	673706.80	5715313.00	.40	35.00	84.00	9.00	100.00
0520	L10000N	11350	673731.70	5715313.00	.20	5.00	37.00	6.00	71.00
0520	L10000N	11375	673756.60	5715313.00	.20	2.50	48.00	11.00	66.00
0520	L10000N	11400	673781.60	5715312.00	.20	20.00	25.00	11.00	76.00
0520	L10000N	11425	673806.50	5715312.00	.10	30.00	46.00	12.00	96.00
0520	L10000N	11450	673831.50	5715312.00	.20	2.50	25.00	12.00	83.00
0520	L10000N	11475	673856.40	5715312.00	.10	2.50	19.00	12.00	37.00
0520	L10000N	11500	673881.40	5715312.00	.10	2.50	11.00	9.00	50.00
0520	L10200N	10000	672357.80	5715419.00	.50	2.50	43.00	13.00	118.00
0520	L10200N	10025	672383.30	5715421.00	.30	2.50	24.00	12.00	134.00
0520	L10200N	10050	672408.90	5715423.00	.20	2.50	67.00	13.00	84.00
0520	L10200N	10075	672434.40	5715426.00	.50	2.50	82.00	12.00	107.00
0520	L10200N	10100	672459.90	5715428.00	.80	2.50	76.00	12.00	78.00
0520	L10200N	10125	672485.50	5715430.00	.60	2.50	37.00	12.00	98.00
0520	L10200N	10150	672511.10	5715432.00	1.20	2.50	108.00	16.00	140.00
0520	L10200N	10175	672536.60	5715435.00	.70	2.50	87.00	13.00	121.00
0520	L10200N	10200	672562.20	5715437.00	.70	2.50	120.00	15.00	127.00
0520	L10200N	10225	672587.80	5715439.00	.30	25.00	36.00	10.00	107.00
0520	L10200N	10250	672613.30	5715441.00	.30	10.00	24.00	9.00	94.00
0520	L10200N	10275	672638.90	5715444.00	.20	2.50	26.00	11.00	100.00
0520	L10200N	10300	672664.40	5715446.00	.30	20.00	54.00	10.00	100.00
0520	L10200N	10325	672689.90	5715448.00	.40	2.50	38.00	7.00	113.00
0520	L10200N	10350	672715.50	5715451.00	.30	2.50	12.00	5.00	62.00
0520	L10200N	10375	672741.10	5715453.00	.30	2.50	21.00	5.00	63.00
0520	L10200N	10400	672766.60	5715455.00	.30	2.50	62.00	11.00	83.00
0520	L10200N	10425	672792.20	5715457.00	.60	2.50	36.00	7.00	138.00
0520	L10200N	10450	672817.80	5715460.00	.40	10.00	61.00	9.00	134.00

BOGG PROPERTY - POOY GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES NORTH	EAST	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0520	L10200N	10475	672843.30	5715462.00	.40	2.50	25.00	11.00	131.00
0520	L10200N	10500	672868.80	5715464.00	1.00	2.50	41.00	13.00	251.00
0520	L10200N	10525	672894.40	5715467.00	.50	2.50	44.00	12.00	168.00
0520	L10200N	10550	672919.90	5715469.00	1.50	2.50	142.00	18.00	332.00
0520	L10200N	10575	672945.50	5715471.00	.40	40.00	22.00	13.00	162.00
0520	L10200N	10600	672971.10	5715473.00	.30	2.50	43.00	10.00	136.00
0520	L10200N	10625	672996.60	5715476.00	.40	40.00	13.00	10.00	100.00
0520	L10200N	10650	673022.20	5715478.00	.50	30.00	56.00	15.00	88.00
0520	L10200N	10675	673047.70	5715480.00	.50	25.00	21.00	8.00	100.00
0520	L10200N	10700	673073.30	5715482.00	.80	2.50	67.00	11.00	178.00
0520	L10200N	10725	673098.80	5715485.00	.10	2.50	40.00	10.00	73.00
0520	L10200N	10750	673124.40	5715487.00	.30	2.50	20.00	11.00	78.00
0520	L10200N	10775	673149.90	5715489.00	.60	10.00	75.00	16.00	154.00
0520	L10200N	10800	673175.50	5715492.00	.30	75.00	61.00	20.00	78.00
0520	L10200N	10825	673201.10	5715494.00	.30	2.50	15.00	7.00	88.00
0520	L10200N	10850	673226.60	5715496.00	.20	2.50	36.00	10.00	92.00
0520	L10200N	10875	673252.10	5715498.00	.30	10.00	24.00	12.00	97.00
0520	L10200N	10950	673328.80	5715505.00	.50	2.50	33.00	14.00	157.00
0520	L10200N	10975	673354.40	5715507.00	.30	2.50	26.00	11.00	82.00
0520	L10200N	11000	673379.90	5715510.00	.10	2.50	38.00	14.00	83.00
0520	L10200N	11025	673405.50	5715512.00	.10	20.00	58.00	19.00	91.00
0520	L10200N	11050	673431.00	5715514.00	.10	2.50	50.00	13.00	80.00
0520	L10200N	11075	673456.60	5715517.00	.30	2.50	63.00	18.00	115.00
0520	L10200N	11100	673482.10	5715519.00	.40	2.50	28.00	14.00	105.00
0520	L10200N	11125	673507.70	5715521.00	.10	2.50	54.00	17.00	82.00
0520	L10200N	11150	673533.30	5715523.00	.20	2.50	26.00	18.00	130.00
0520	L10200N	11200	673584.40	5715528.00	.50	45.00	170.00	22.00	134.00
0520	L10200N	11225	673609.90	5715530.00	.40	30.00	108.00	18.00	137.00
0520	L10200N	11250	673635.40	5715532.00	.10	65.00	44.00	14.00	87.00
0520	L10200N	11275	673661.00	5715535.00	.10	2.50	18.00	9.00	80.00
0520	L10200N	11300	673686.60	5715537.00	.60	2.50	114.00	11.00	83.00
0520	L10200N	11325	673712.10	5715539.00	.20	2.50	32.00	17.00	90.00
0520	L10200N	11350	673737.70	5715542.00	.30	2.50	32.00	17.00	98.00
0520	L10200N	11375	673763.30	5715544.00	.10	2.50	73.00	13.00	88.00

BOGG PROPERTY - POOY GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES NORTH	EAST	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0520	L10200N	11400	673788.80	5715546.00	.20	15.00	38.00	11.00	70.00
0520	L10200N	11425	673814.30	5715548.00	.10	2.50	46.00	15.00	108.00
0520	L10200N	11450	673839.90	5715551.00	.30	2.50	48.00	18.00	141.00
0520	L10200N	11475	673865.40	5715553.00	.20	2.50	22.00	14.00	71.00
0520	L10200N	11500	673891.00	5715555.00	.20	2.50	48.00	17.00	83.00
0520	L10400N	10000	672381.30	5715573.00	1.00	2.50	56.00	10.00	80.00
0520	L10400N	10025	672406.70	5715575.00	.40	10.00	48.00	11.00	120.00
0520	L10400N	10050	672432.10	5715578.00	.50	2.50	69.00	13.00	100.00
0520	L10400N	10075	672457.60	5715580.00	.20	2.50	38.00	10.00	83.00
0520	L10400N	10100	672483.10	5715583.00	.40	2.50	40.00	10.00	88.00
0520	L10400N	10125	672508.50	5715585.00	.20	2.50	15.00	8.00	74.00
0520	L10400N	10150	672533.90	5715588.00	.10	2.50	44.00	14.00	70.00
0520	L10400N	10175	672559.40	5715590.00	.30	5.00	20.00	9.00	70.00
0520	L10400N	10200	672584.80	5715593.00	.40	2.50	78.00	15.00	102.00
0520	L10400N	10225	672610.30	5715595.00	.20	2.50	52.00	15.00	88.00
0520	L10400N	10250	672635.70	5715598.00	.10	2.50	48.00	13.00	92.00
0520	L10400N	10275	672661.10	5715600.00	.30	2.50	44.00	13.00	138.00
0520	L10400N	10300	672686.60	5715603.00	.20	2.50	43.00	13.00	87.00
0520	L10400N	10325	672712.10	5715605.00	.50	2.50	47.00	12.00	118.00
0520	L10400N	10350	672737.50	5715608.00	.20	140.00	41.00	9.00	100.00
0520	L10400N	10375	672762.90	5715610.00	.70	2.50	68.00	12.00	137.00
0520	L10400N	10400	672788.40	5715613.00	.30	2.50	32.00	10.00	114.00
0520	L10400N	10425	672813.80	5715615.00	.40	2.50	27.00	9.00	76.00
0520	L10400N	10450	672839.30	5715618.00	.30	2.50	32.00	10.00	96.00
0520	L10400N	10475	672864.80	5715620.00	.30	2.50	49.00	10.00	130.00
0520	L10400N	10500	672890.20	5715623.00	.60	2.50	49.00	8.00	140.00
0520	L10400N	10525	672915.60	5715625.00	.40	2.50	34.00	13.00	155.00
0520	L10400N	10550	672941.10	5715628.00	.20	2.50	10.00	8.00	60.00
0520	L10400N	10575	672966.50	5715630.00	.40	2.50	15.00	7.00	63.00
0520	L10400N	10600	672991.90	5715633.00	.30	2.50	47.00	8.00	184.00
0520	L10400N	10625	673017.40	5715635.00	.80	2.50	37.00	15.00	220.00
0520	L10400N	10650	673042.80	5715638.00	.50	2.50	34.00	13.00	87.00
0520	L10400N	10675	673068.30	5715640.00	1.60	2.50	170.00	20.00	161.00
0520	L10400N	10700	673093.80	5715643.00	.50	2.50	31.00	17.00	134.00

BOGG PROPERTY - POOY GRID 1990 SOIL ASSAYS

PROJ	GRID COORDINATES NORTH	EAST	UTM COORDINATES EAST	NORTH	Ag ppm	Au ppb	Cu ppm	Pb ppm	Zn ppm
0520	L10400N	10725	673119.20	5715645.00	.40	2.50	26.00	15.00	108.00
0520	L10400N	10750	673144.60	5715648.00	.40	175.00	53.00	20.00	87.00
0520	L10400N	10775	673170.10	5715650.00	1.00	2.50	38.00	17.00	74.00
0520	L10400N	10800	673195.50	5715653.00	.50	2.50	38.00	18.00	85.00
0520	L10400N	10825	673220.90	5715655.00	.30	2.50	32.00	19.00	87.00
0520	L10400N	10850	673246.40	5715658.00	.60	2.50	76.00	24.00	100.00
0520	L10400N	10875	673271.90	5715660.00	.60	2.50	37.00	16.00	157.00
0520	L10400N	10900	673297.30	5715663.00	.50	2.50	19.00	14.00	86.00
0520	L10400N	10925	673322.80	5715665.00	.70	2.50	26.00	16.00	147.00
0520	L10400N	10950	673348.20	5715668.00	1.30	5.00	21.00	14.00	142.00
0520	L10400N	10975	673373.60	5715670.00	.40	2.50	24.00	13.00	106.00
0520	L10400N	11025	673424.50	5715675.00	.30	2.50	37.00	19.00	112.00
0520	L10400N	11050	673450.00	5715678.00	.60	2.50	39.00	20.00	165.00
0520	L10400N	11075	673475.40	5715680.00	.30	2.50	38.00	14.00	93.00
0520	L10400N	11100	673500.90	5715683.00	.40	2.50	24.00	13.00	143.00
0520	L10400N	11125	673526.30	5715685.00	.50	2.50	34.00	13.00	108.00
0520	L10400N	11150	673551.80	5715688.00	.50	2.50	16.00	14.00	76.00
0520	L10400N	11175	673577.20	5715690.00	.50	2.50	28.00	16.00	97.00
0520	L10400N	11200	673602.60	5715693.00	.50	2.50	30.00	14.00	144.00
0520	L10400N	11225	673628.10	5715695.00	.30	5.00	67.00	17.00	112.00
0520	L10400N	11250	673653.60	5715698.00	.30	45.00	110.00	18.00	105.00
0520	L10400N	11275	673679.00	5715700.00	.30	40.00	60.00	16.00	108.00
0520	L10400N	11300	673704.40	5715703.00	.30	440.00	48.00	16.00	134.00
0520	L10400N	11325	673729.90	5715705.00	.20	2.50	18.00	16.00	87.00
0520	L10400N	11350	673755.30	5715708.00	.40	2.50	66.00	20.00	123.00
0520	L10400N	11375	673780.80	5715710.00	.30	2.50	26.00	17.00	100.00
0520	L10400N	11400	673806.20	5715713.00	.40	2.50	70.00	21.00	100.00
0520	L10400N	11425	673831.70	5715715.00	.40	2.50	27.00	10.00	64.00
0520	L10400N	11450	673857.10	5715718.00	1.20	2.50	116.00	23.00	123.00
0520	L10400N	11475	673882.60	5715720.00	1.50	2.50	119.00	25.00	150.00
0520	L10400N	11500	673908.00	5715723.00	.50	2.50	29.00	15.00	93.00

P L A C E R D O M E I N C .

Placer Data Analysis System - STATS

run on 90:11:16 at 9:57:52

NEEDA EN-GRID 1990 SOILS: DUPLICATES REMOVED

Summary of data from file : engrid90.utm

This data file contains an internal header: (5 records)
Data grouped into 11 fields
with format: (2A8, 4F10.2, 5F10.2)

Character ID fields:
GRID PROJ

Coordinate fields:
EAST NRTH XUTM YUTM

Other data fields:
AG AU1 CU PB ZN

Missing data indicated by NULL value 99999.0

BASIC STATISTICS OF SELECTED DATA FIELDS:

NAME	NDATA	NULLS	MINIMUM	MAXIMUM	MEAN	STD. DEV.	GEOM. MEAN	DISPERSION	
AG	782	0	.100000	22.0000	.414322	.829434	.309124	.155211	.615663
AU1	782	0	2.50000	850.000	19.9815	70.8860	5.16566	1.48624	17.9541
CU	782	0	3.00000	376.000	44.3504	32.2198	36.2337	18.9431	69.3066
PB	782	0	3.00000	43.0000	10.6752	3.97391	10.0632	7.13932	14.1846
ZN	782	0	18.0000	490.000	111.407	49.9511	101.627	65.7895	156.987

HISTO: NEEDA EN-GRID 1990 SOILS: DUPLICATES REMOVED RUN ON 90:11:16 AT 9:57:52

File: engrid90.utm Field name: AG LOG = 1 REPVAL = .00100

782 SAMPLES WITH AG MINIMUM: .100000 MAXIMUM: 22.0000

668 VALUES PLOTTED: 114 NOT IN RANGE .200000 to 22.0000

GEOMETRIC MEAN: .374783 DISPERSION: .216534 .648682

SCALE OF HISTOGRAM IS 5.00 COUNTS /PRINT POSITION # = 5,50,95%

N	MIDPOINT	PERCENT	0 50 100 150 200
			I---------I---------I---------I---------I
175	.20000	# 26.20	I********************************** I
0	.22494	.00	I I
0	.25299	.00	I I
148	.28453	22.16	I****************************** I
0	.32001	.00	I I
0	.35992	.00	I I
128	.40480	# 19.16	I************************* I
0	.45527	.00	I I
80	.51205	11.98	I********** I
47	.57589	7.04	I********* I
0	.64771	.00	I I
19	.72847	2.84	I**** I
17	.81931	2.54	I*** I
11	.92147	1.65	I** I
15	1.0364	# 2.25	I*** I
10	1.1656	1.50	I** I
6	1.3110	.90	I* I
4	1.4744	.60	I* I
1	1.6583	.15	I I
1	1.8651	.15	I I
3	2.0976	.45	I* I
1	2.3592	.15	I I
0	2.6534	.00	I I
1	2.9842	.15	I I
0	3.3563	.00	I I
0	3.7749	.00	I I
0	4.2456	.00	I I
0	4.7750	.00	I I
0	5.3704	.00	I I
0	6.0400	.00	I I
0	6.7932	.00	I I
0	7.6403	.00	I I
0	8.5930	.00	I I
0	9.6645	.00	I I
0	10.870	.00	I I
0	12.225	.00	I I
0	13.749	.00	I I
0	15.464	.00	I I
0	17.392	.00	I I
0	19.561	.00	I I
1	22.000	.15	I I
-----			I---------I---------I---------I---------I
668			0 50 100 150 200

HISTO: NEEDA EN-GRID 1990 SOILS: DUPLICATES REMOVED RUN ON 90:11:16 AT 9:57:52

File: engrid90.utm Field name: AU1 LOG = 1 REPVAL = .00100

782 SAMPLES WITH AU1 MINIMUM: 2.50000 MAXIMUM: 850.000

245 VALUES PLOTTED: 537 NOT IN RANGE 5.00000 to 850.000

GEOMETRIC MEAN: 25.3485 DISPERSION: 8.22174 78.1524

SCALE OF HISTOGRAM IS 2.00 COUNTS /PRINT POSITION # = 5,50,95%

N	MIDPOINT	PERCENT	0 20 40 60 80
			I---------I---------I---------I---------I
21	5.0000	# 8.57	I********** I
0	5.6850	.00	I I
0	6.4639	.00	I I
0	7.3494	.00	I I
0	8.3563	.00	I I
51	9.5011	20.82	I************************* I
0	10.803	.00	I I
0	12.283	.00	I I
1	13.966	.41	I* I
39	15.879	15.92	I******************* I
0	18.054	.00	I I
21	20.528	# 8.57	I********** I
1	23.340	.41	I* I
13	26.538	5.31	I******* I
16	30.174	6.53	I******** I
12	34.307	4.90	I****** I
8	39.008	3.27	I**** I
3	44.352	1.22	I** I
7	50.428	2.86	I**** I
4	57.337	1.63	I** I
4	65.192	1.63	I** I
4	74.123	1.63	I** I
5	84.279	2.04	I*** I
5	95.825	2.04	I*** I
3	108.95	1.22	I** I
5	123.88	2.04	I*** I
3	140.85	1.22	I** I
1	160.15	.41	I* I
2	182.09	.82	I* I
2	207.04	.82	I* I
2	235.40	# .82	I* I
1	267.65	.41	I* I
2	304.32	.82	I* I
0	346.01	.00	I I
1	393.42	.41	I* I
2	447.32	.82	I* I
2	508.60	.82	I* I
0	578.28	.00	I I
2	657.50	.82	I* I
0	747.58	.00	I I
2	850.00	.82	I* I
-----			I---------I---------I---------I---------I
245			0 20 40 60 80

HISTO: NEEDA EN-GRID 1990 SOILS: DUPLICATES REMOVED RUN ON 90:11:16 AT 9:57:52

File: engrid90.utm Field name: CU LOG = 1 REPVAL = .00100

782 SAMPLES WITH CU MINIMUM: 3.00000 MAXIMUM: 376.000

778 VALUES PLOTTED: 4 NOT IN RANGE 5.00000 to 376.000

GEOMETRIC MEAN: 36.6601 DISPERSION: 19.5403 68.7792

SCALE OF HISTOGRAM IS 2.00 COUNTS /PRINT POSITION # = 5,50,95%

N	MIDPOINT	PERCENT	0 20 40 60 80
			I---------I---------I---------I---------I
4	5.0000	.51	I** I
0	5.5703	.00	I I
4	6.2056	.51	I** I
0	6.9133	.00	I I
4	7.7018	.51	I** I
9	8.5802	1.16	I***** I
4	9.5588	.51	I** I
7	10.649	.90	I**** I
9	11.864	# 1.16	I***** I
7	13.217	.90	I**** I
21	14.724	2.70	I********** I
23	16.403	2.96	I********** I
24	18.274	3.08	I********** I
21	20.358	2.70	I********** I
28	22.680	3.60	I********** I
47	25.267	6.04	I********** I
45	28.149	5.78	I********** I
69	31.359	8.87	I********** I
61	34.936	7.84	I********** I
70	38.920	# 9.00	I********** I
39	43.359	5.01	I********** I
55	48.304	7.07	I********** I
34	53.813	4.37	I********** I
50	59.951	6.43	I********** I
32	66.788	4.11	I********** I
35	74.406	4.50	I********** I
26	82.892	3.34	I********** I
9	92.346	1.16	I***** I
12	102.88	# 1.54	I****** I
11	114.61	1.41	I****** I
7	127.68	.90	I**** I
2	142.25	.26	I* I
4	158.47	.51	I** I
0	176.54	.00	I I
0	196.68	.00	I I
1	219.11	.13	I* I
2	244.10	.26	I* I
0	271.94	.00	I I
1	302.95	.13	I* I
0	337.51	.00	I I
1	376.00	.13	I* I
-----			I---------I---------I---------I---------I
778			0 20 40 60 80

HISTO: NEEDA EN-GRID 1990 SOILS: DUPLICATES REMOVED RUN ON 90:11:16 AT 9:57:52

File: engrid90.utm Field name: PB LOG = 1 REPVAL = .00100

782 SAMPLES WITH PB MINIMUM: 3.00000 MAXIMUM: 43.0000

768 VALUES PLOTTED: 14 NOT IN RANGE 5.00000 to 43.0000

GEOMETRIC MEAN: 10.2646 DISPERSION: 7.50978 14.0300

SCALE OF HISTOGRAM IS 4.00 COUNTS /PRINT POSITION # = 5,50,95%

N	MIDPOINT	PERCENT	0 40 80 120 160
			I---------I---------I---------I---------I
18	5.0000	2.34	I***** I
0	5.2763	.00	I I
0	5.5679	.00	I I
29	5.8757	# 3.78	I******* I
0	6.2004	.00	I I
0	6.5431	.00	I I
65	6.9047	8.46	I**************** I
0	7.2863	.00	I I
0	7.6890	.00	I I
85	8.1139	11.07	I********************* I
0	8.5624	.00	I I
114	9.0356	14.84	I****************************** I
0	9.5350	.00	I I
101	10.062	# 13.15	I************************* I
0	10.618	.00	I I
107	11.205	13.93	I*************************** I
69	11.824	8.98	I****************** I
0	12.478	.00	I I
51	13.167	6.64	I************* I
33	13.895	4.30	I******** I
28	14.663	3.65	I******* I
0	15.473	.00	I I
17	16.328	2.21	I**** I
18	17.231	# 2.34	I***** I
8	18.183	1.04	I** I
7	19.188	.91	I** I
7	20.249	.91	I** I
3	21.368	.39	I* I
2	22.549	.26	I* I
0	23.795	.00	I I
0	25.110	.00	I I
2	26.498	.26	I* I
0	27.962	.00	I I
0	29.507	.00	I I
0	31.138	.00	I I
0	32.859	.00	I I
0	34.675	.00	I I
1	36.592	.13	I I
1	38.614	.13	I I
0	40.748	.00	I I
2	43.000	.26	I* I
-----			I---------I---------I---------I---------I
768			0 40 80 120 160

HISTO: NEEDA EN-GRID 1990 SOILS: DUPLICATES REMOVED RUN ON 90:11:16 AT 9:57:52

File: engrid90.utm Field name: ZN LOG = 1 REPVAL = .00100

782 SAMPLES WITH ZN MINIMUM: 18.0000 MAXIMUM: 490.000

781 VALUES PLOTTED: 1 NOT IN RANGE 20.0000 to 490.000

GEOMETRIC MEAN: 101.853 DISPERSION: 66.2105 156.681

SCALE OF HISTOGRAM IS 2.00 COUNTS /PRINT POSITION # = 5,50,95%

N	MIDPOINT	PERCENT	0 20 40 60 80
			I---------I---------I---------I---------I
0	20.000	.00	I
1	21.665	.13	I*
1	23.469	.13	I*
3	25.422	.38	I**
4	27.539	.51	I**
1	29.832	.13	I*
1	32.315	.13	I*
4	35.005	.51	I**
1	37.920	.13	I*
2	41.076	.26	I*
13	44.496	1.66	I*******
8	48.200	1.02	I****
19	52.213	# 2.43	I**********
15	56.560	1.92	I********
22	61.269	2.82	I***********
29	66.369	3.71	I***************
36	71.895	4.61	I*******************
49	77.880	6.27	I*************************
55	84.363	7.04	I*****************************
63	91.387	8.07	I*********************************
77	98.995	# 9.86	I**
63	107.24	8.07	I*********************************
39	116.16	4.99	I********************
58	125.83	7.43	I******************************
59	136.31	7.55	I*******************************
45	147.66	5.76	I************************
31	159.95	3.97	I****************
18	173.27	2.30	I*********
19	187.69	2.43	I**********
9	203.32	# 1.15	I*****
10	220.24	1.28	I*****
9	238.58	1.15	I*****
6	258.44	.77	I***
5	279.96	.64	I***
3	303.26	.38	I**
0	328.51	.00	I
2	355.86	.26	I*
0	385.49	.00	I
0	417.58	.00	I
0	452.34	.00	I
1	490.00	.13	I*
-----			I---------I---------I---------I---------I
781			0 20 40 60 80

HISTO: NEEDA EN-GRID 1990 SOILS: DUPLICATES REMOVED RUN ON 90:11:16 AT 9:57:52

File: engrid90.utm Field name: PB LOG = 1 REPVAL = .00100

782 SAMPLES WITH PB MINIMUM: 3.00000 MAXIMUM: 43.0000

768 VALUES PLOTTED: 14 NOT IN RANGE 5.00000 to 43.0000

GEOMETRIC MEAN: 10.2646 DISPERSION: 7.50978 14.0300

SCALE OF HISTOGRAM IS 4.00 COUNTS /PRINT POSITION # = 5,50,95%

N	MIDPOINT	PERCENT	0 40 80 120 160
			I---------I---------I---------I---------I
18	5.0000	2.34	I***** I
0	5.2763	.00	I I
0	5.5679	.00	I I
29	5.8757	# 3.78	I******* I
0	6.2004	.00	I I
0	6.5431	.00	I I
65	6.9047	8.46	I**************** I
0	7.2863	.00	I I
0	7.6890	.00	I I
85	8.1139	11.07	I********************** I
0	8.5624	.00	I I
114	9.0356	14.84	I****************************** I
0	9.5350	.00	I I
101	10.062	# 13.15	I************************** I
0	10.618	.00	I I
107	11.205	13.93	I**************************** I
69	11.824	8.98	I****************** I
0	12.478	.00	I I
51	13.167	6.64	I************** I
33	13.895	4.30	I******** I
28	14.663	3.65	I******* I
0	15.473	.00	I I
17	16.328	2.21	I**** I
18	17.231	# 2.34	I***** I
8	18.183	1.04	I** I
7	19.188	.91	I** I
7	20.249	.91	I** I
3	21.368	.39	I* I
2	22.549	.26	I* I
0	23.795	.00	I I
0	25.110	.00	I I
2	26.498	.26	I* I
0	27.962	.00	I I
0	29.507	.00	I I
0	31.138	.00	I I
0	32.859	.00	I I
0	34.675	.00	I I
1	36.592	.13	I I
1	38.614	.13	I I
0	40.748	.00	I I
2	43.000	.26	I* I
-----			I---------I---------I---------I---------I
768			0 40 80 120 160

HISTO: NEEDA EN-GRID 1990 SOILS: DUPLICATES REMOVED RUN ON 90:11:16 AT 9:57:52

File: engrid90.utm Field name: ZN LOG = 1 REPVAL = .00100

782 SAMPLES WITH ZN MINIMUM: 18.0000 MAXIMUM: 490.000

131 VALUES PLOTTED: 651 NOT IN RANGE 150.000 to 490.000

GEOMETRIC MEAN: 189.597 DISPERSION: 152.236 236.128

SCALE OF HISTOGRAM IS .40 COUNTS /PRINT POSITION # = 5,50,95%

N	MIDPOINT	PERCENT	0 4.0 8.0 12 16
			I---------I---------I---------I---------I
15	150.00	# 11.45	I** I
9	154.51	6.87	I********************* I
12	159.15	9.16	I***************************** I
13	163.93	9.92	I********************************** I
6	168.85	4.58	I*************** I
10	173.92	7.63	I************************ I
2	179.15	# 1.53	I***** I
11	184.53	8.40	I**************************** I
6	190.07	4.58	I*************** I
3	195.78	2.29	I******** I
5	201.66	3.82	I************* I
3	207.72	2.29	I******** I
2	213.96	1.53	I***** I
6	220.38	4.58	I*************** I
3	227.00	2.29	I******** I
4	233.82	3.05	I********** I
4	240.84	3.05	I********** I
2	248.08	1.53	I***** I
3	255.53	2.29	I******** I
1	263.20	.76	I*** I
3	271.11	2.29	I******** I
1	279.25	.76	I*** I
1	287.64	# .76	I*** I
1	296.28	.76	I*** I
2	305.18	1.53	I***** I
0	314.35	.00	I I
0	323.79	.00	I I
0	333.51	.00	I I
1	343.53	.76	I*** I
1	353.85	.76	I*** I
0	364.48	.00	I I
0	375.43	.00	I I
0	386.70	.00	I I
0	398.32	.00	I I
0	410.28	.00	I I
0	422.60	.00	I I
0	435.30	.00	I I
0	448.37	.00	I I
0	461.84	.00	I I
0	475.71	.00	I I
1	490.00	.76	I*** I
-----			I---------I---------I---------I---------I
131			0 4.0 8.0 12 16

CORMAT: RUN ON 90:11:16 AT 9:57:52

Data from file: engrid90.utm

NEEDA EN-GRID 1990 SOILS: DUPLICATES REMOVED

Correlation matrix for 782 records with 5 variables

	AG	AU1	CU	PB	ZN
LOG:	1	1	1	1	1
AG	1.000	-.055	.421	.345	.388
AU1	-.055	1.000	.199	.104	-.018
CU	.421	.199	1.000	.584	.485
PB	.345	.104	.584	1.000	.471
ZN	.388	-.018	.485	.471	1.000

Number of data pairs contributing to correlation

	AG	AU1	CU	PB	ZN
AG	782	782	782	782	782
AU1	782	782	782	782	782
CU	782	782	782	782	782
PB	782	782	782	782	782
ZN	782	782	782	782	782

P L A C E R D O M E I N C .

Placer Data Analysis System - STATS

run on 90:11:16 at 12:18:42

BOGG SOUTH AND BOGG NORTH GRID 1990 SOILS: DUPLICATES REMOVE

Summary of data from file : bogg-90.utm

This data file contains an internal header: (5 records)
Data grouped into 11 fields
with format: (2A8, 4F10.2, 5F10.2)

Character ID fields:
GRID PROJ

Coordinate fields:
EAST NRTH XUTM YUTM

Other data fields:
AG AU1 CU PB ZN

Missing data indicated by NULL value 99999.0

BASIC STATISTICS OF SELECTED DATA FIELDS:

NAME	NDATA	NULLS	MINIMUM	MAXIMUM	MEAN	STD. DEV.	GEOM. MEAN	DISPERSION	
AG	738	1	.100000	2.90000	.365176	.271223	.295153	.153490	.567562
AU1	739	0	2.50000	2345.00	29.7043	108.591	8.16691	1.99055	33.5075
CU	738	1	5.00000	323.000	50.1734	35.5583	41.0236	21.6087	77.8824
PB	738	1	3.00000	100.000	17.7683	10.3771	15.5528	9.39524	25.7459
ZN	738	1	36.0000	365.000	115.640	50.3853	106.490	71.2917	159.067

HISTO: BOGG SOUTH AND BOGG NORTH GRID 1990 SOILS: DUPLICATES REMOVE RUN ON 90:11:16 AT 12:18:42

File: bogg-90.utm Field name: AG LOG = 1 REPVAL = .00100

738 SAMPLES WITH AG MINIMUM: .100000 MAXIMUM: 2.90000

620 VALUES PLOTTED: 118 NOT IN RANGE .200000 to 2.90000

GEOMETRIC MEAN: .362668 DISPERSION: .221475 .593874

SCALE OF HISTOGRAM IS 5.00 COUNTS /PRINT POSITION # = 5,50,95%

N	MIDPOINT	PERCENT	0 50 100 150 200
			I---------I---------I---------I---------I
163	.20000	# 26.29	I********************************** I
0	.21383	.00	I I
0	.22861	.00	I I
0	.24442	.00	I I
0	.26132	.00	I I
0	.27938	.00	I I
145	.29870	23.39	I****************************** I
0	.31935	.00	I I
0	.34143	.00	I I
0	.36504	.00	I I
121	.39028	# 19.52	I************************* I
0	.41726	.00	I I
0	.44611	.00	I I
0	.47695	.00	I I
72	.50993	11.61	I*************** I
0	.54518	.00	I I
48	.58288	7.74	I********** I
0	.62318	.00	I I
0	.66626	.00	I I
25	.71233	4.03	I***** I
0	.76158	.00	I I
12	.81423	1.94	I** I
7	.87053	# 1.13	I* I
0	.93071	.00	I I
10	.99506	1.61	I** I
5	1.0639	.81	I* I
0	1.1374	.00	I I
4	1.2161	.65	I* I
1	1.3001	.16	I I
3	1.3900	.48	I* I
0	1.4861	.00	I I
1	1.5889	.16	I I
0	1.6987	.00	I I
0	1.8162	.00	I I
1	1.9417	.16	I I
0	2.0760	.00	I I
0	2.2195	.00	I I
0	2.3730	.00	I I
0	2.5371	.00	I I
1	2.7125	.16	I I
1	2.9000	.16	I I
-----			I---------I---------I---------I---------I
620			0 50 100 150 200

HISTO: BOGG SOUTH AND BOGG NORTH GRID 1990 SOILS: DUPLICATES REMOVE RUN ON 90:11:16 AT 12:18:42

File: bogg-90.utm Field name: AU1 LOG = 1 REPVAL = .00100

739 SAMPLES WITH AU1 MINIMUM: 2.50000 MAXIMUM: 2345.00

360 VALUES PLOTTED: 379 NOT IN RANGE 5.00000 to 2345.00

GEOMETRIC MEAN: 28.3993 DISPERSION: 10.1446 79.5020

SCALE OF HISTOGRAM IS 2.00 COUNTS /PRINT POSITION # = 5,50,95%

N	MIDPOINT	PERCENT	0 20 40 60 80
			I---------I---------I---------I---------I
24	5.0000	# 6.67	I********** I
0	5.8311	.00	I I
0	6.8003	.00	I I
0	7.9306	.00	I I
0	9.2488	.00	I I
49	10.786	13.61	I********** I
0	12.579	.00	I I
48	14.670	13.33	I********** I
0	17.108	.00	I I
39	19.952	10.83	I********** I
34	23.268	# 9.44	I********** I
0	27.136	.00	I I
35	31.646	9.72	I********** I
16	36.906	4.44	I******** I
20	43.041	5.56	I********** I
8	50.195	2.22	I**** I
17	58.538	4.72	I********* I
12	68.268	3.33	I****** I
11	79.616	3.06	I****** I
5	92.849	1.39	I*** I
5	108.28	1.39	I*** I
8	126.28	2.22	I**** I
7	147.27	1.94	I**** I
3	171.75	.83	I** I
4	200.30	# 1.11	I** I
2	233.59	.56	I* I
4	272.42	1.11	I** I
2	317.70	.56	I* I
0	370.50	.00	I I
1	432.09	.28	I* I
1	503.91	.28	I* I
2	587.67	.56	I* I
1	685.35	.28	I* I
1	799.26	.28	I* I
0	932.11	.00	I I
0	1087.0	.00	I I
0	1267.7	.00	I I
0	1478.4	.00	I I
0	1724.2	.00	I I
0	2010.8	.00	I I
1	2345.0	.28	I* I
-----			I---------I---------I---------I---------I
360			0 20 40 60 80

HISTO: BOGG SOUTH AND BOGG NORTH GRID 1990 SOILS: DUPLICATES REMOVE RUN ON 90:11:16 AT 12:18:42

File: bogg-90.utm Field name: CU LOG = 1 REPVAL = .00100

738 SAMPLES WITH CU MINIMUM: 5.00000 MAXIMUM: 323.000

738 VALUES PLOTTED: 0 NOT IN RANGE 5.00000 to 323.000

GEOMETRIC MEAN: 41.0236 DISPERSION: 21.6087 77.8824

SCALE OF HISTOGRAM IS 2.00 COUNTS /PRINT POSITION # = 5,50,95%

N	MIDPOINT	PERCENT	0 20 40 60 80
			I---------I---------I---------I---------I
2	5.0000	.27	I* I
0	5.5491	.00	I I
3	6.1586	.41	I** I
2	6.8350	.27	I* I
0	7.5857	.00	I I
4	8.4188	.54	I** I
7	9.3434	.95	I**** I
3	10.370	.41	I** I
14	11.508	1.90	I******* I
4	12.772	# .54	I** I
5	14.175	.68	I*** I
12	15.732	1.63	I****** I
13	17.460	1.76	I******* I
21	19.377	2.85	I********** I
10	21.506	1.36	I***** I
47	23.867	6.37	I************************ I
30	26.489	4.07	I*************** I
41	29.398	5.56	I********************* I
51	32.627	6.91	I************************** I
62	36.210	8.40	I******************************** I
52	40.187	# 7.05	I************************** I
40	44.601	5.42	I******************** I
71	49.499	9.62	I************************************ I
35	54.935	4.74	I****************** I
48	60.969	6.50	I************************ I
33	67.665	4.47	I***************** I
22	75.097	2.98	I********** I
21	83.344	2.85	I********** I
24	92.498	3.25	I*********** I
19	102.66	2.57	I********** I
9	113.93	# 1.22	I***** I
9	126.44	1.22	I***** I
8	140.33	1.08	I**** I
1	155.74	.14	I* I
4	172.85	.54	I** I
5	191.83	.68	I*** I
3	212.90	.41	I** I
1	236.28	.14	I* I
1	262.24	.14	I* I
0	291.04	.00	I I
1	323.00	.14	I* I
-----			I---------I---------I---------I---------I
738			0 20 40 60 80

HISTO: BOGG SOUTH AND BOGG NORTH GRID 1990 SOILS: DUPLICATES REMOVE RUN ON 90:11:16 AT 12:18:42

File: bogg-90.utm Field name: PB LOG = 1 REPVAL = .00100

738 SAMPLES WITH PB MINIMUM: 3.00000 MAXIMUM: 100.000

732 VALUES PLOTTED: 6 NOT IN RANGE 5.00000 to 100.000

GEOMETRIC MEAN: 15.7331 DISPERSION: 9.64257 25.6704

SCALE OF HISTOGRAM IS 2.00 COUNTS /PRINT POSITION # = 5,50,95%

N	MIDPOINT	PERCENT	0 20 40 60 80
			I---------I---------I---------I---------I
4	5.0000	.55	I** I
0	5.3888	.00	I I
11	5.8079	1.50	I****** I
0	6.2596	.00	I I
14	6.7464	1.91	I******* I
0	7.2711	.00	I I
34	7.8365	# 4.64	I****************** I
0	8.4460	.00	I I
39	9.1028	5.33	I******************** I
63	9.8107	8.61	I********************************* I
0	10.574	.00	I I
41	11.396	5.60	I********************** I
55	12.282	7.51	I***************************** I
42	13.237	5.74	I********************** I
40	14.267	5.46	I********************** I
41	15.376	# 5.60	I********************** I
67	16.572	9.15	I************************************ I
33	17.861	4.51	I****************** I
23	19.250	3.14	I************ I
37	20.747	5.05	I******************** I
30	22.361	4.10	I**************** I
33	24.100	4.51	I****************** I
16	25.974	2.19	I******** I
27	27.994	3.69	I*************** I
14	30.171	1.91	I******* I
16	32.517	2.19	I******** I
9	35.046	1.23	I***** I
13	37.772	# 1.78	I******* I
8	40.709	1.09	I**** I
6	43.875	.82	I*** I
6	47.287	.82	I*** I
3	50.965	.41	I** I
3	54.928	.41	I** I
0	59.200	.00	I I
0	63.804	.00	I I
1	68.766	.14	I* I
0	74.114	.00	I I
1	79.877	.14	I* I
1	86.089	.14	I* I
0	92.784	.00	I I
1	100.00	.14	I* I
-----			I---------I---------I---------I---------I
732			0 20 40 60 80

HISTO: BOGG SOUTH AND BOGG NORTH GRID 1990 SOILS: DUPLICATES REMOVE RUN ON 90:11:16 AT 12:18:42

File: bogg-90.utm Field name: ZN LOG = 1 REPVAL = .00100

738 SAMPLES WITH ZN MINIMUM: 36.0000 MAXIMUM: 365.000

738 VALUES PLOTTED: 0 NOT IN RANGE 25.0000 to 365.000

GEOMETRIC MEAN: 106.490 DISPERSION: 71.2917 159.067

SCALE OF HISTOGRAM IS 2.00 COUNTS /PRINT POSITION # = 5,50,95%

N	MIDPOINT		PERCENT	0 20 40 60 80
				I---------I---------I---------I---------I
0	25.000		.00	I I
0	26.733		.00	I I
0	28.586		.00	I I
0	30.568		.00	I I
0	32.687		.00	I I
1	34.953		.14	I* I
1	37.376		.14	I* I
6	39.967		.81	I*** I
5	42.738		.68	I*** I
6	45.700		.81	I*** I
9	48.868		1.22	I***** I
7	52.256		.95	I**** I
10	55.879	#	1.36	I***** I
14	59.752		1.90	I******* I
21	63.894		2.85	I********** I
30	68.324		4.07	I********** I
24	73.060		3.25	I********** I
24	78.125		3.25	I********** I
54	83.541		7.32	I********** I
52	89.332		7.05	I********** I
54	95.525		7.32	I********** I
62	102.15	#	8.40	I********** I
55	109.23		7.45	I********** I
48	116.80		6.50	I********** I
36	124.90		4.88	I********** I
41	133.55		5.56	I********** I
31	142.81		4.20	I********** I
32	152.71		4.34	I********** I
25	163.30		3.39	I********** I
25	174.62		3.39	I********** I
11	186.73		1.49	I****** I
9	199.67		1.22	I***** I
8	213.51		1.08	I**** I
12	228.31	#	1.63	I****** I
9	244.14		1.22	I***** I
3	261.06		.41	I** I
3	279.16		.41	I** I
5	298.51		.68	I*** I
0	319.21		.00	I I
4	341.34		.54	I** I
1	365.00		.14	I* I
-----				I---------I---------I---------I---------I
738				0 20 40 60 80

CORMAT: RUN ON 90:11:16 AT 12:18:42

Data from file: bogg-90.utm

BOGG SOUTH AND BOGG NORTH GRID 1990 SOILS: DUPLICATES REMOVE

Correlation matrix for 739 records with 5 variables

	AG	AU1	CU	PB	ZN
LOG:	1	1	1	1	1
AG	1.000	-.204	.395	.251	.332
AU1	-.204	1.000	-.109	-.184	-.056
CU	.395	-.109	1.000	.498	.378
PB	.251	-.184	.498	1.000	.099
ZN	.332	-.056	.378	.099	1.000

Number of data pairs contributing to correlation

	AG	AU1	CU	PB	ZN
AG	738	738	738	738	738
AU1	738	739	738	738	738
CU	738	738	738	738	738
PB	738	738	738	738	738
ZN	738	738	738	738	738

P L A C E R D O M E I N C .

Placer Data Analysis System - STATS

run on 90:11:16 at 12:07:59

V269 BOGG POOH GRID 1990

Summary of data from file : pooh-90.utm

This data file contains an internal header: (5 records)
Data grouped into 11 fields
with format: (3A8, 3F10.2, 5F10.2)

Character ID fields:
GRID PROJ LINE

Coordinate fields:
STA XUTM YUTM

Other data fields:
AG AU1 CU PB ZN

Missing data indicated by NULL value 99999.0

BASIC STATISTICS OF SELECTED DATA FIELDS:

NAME	NDATA	NULLS	MINIMUM	MAXIMUM	MEAN	STD. DEV.	GEOM. MEAN	DISPERSION	
AG	234	0	.100000	2.00000	.455128	.287051	.382898	.210449	.696656
AU1	234	0	2.50000	465.000	13.9423	47.4096	4.24669	1.40108	12.8718
CU	234	0	10.0000	170.000	47.1068	26.5860	41.2048	24.6593	68.8515
PB	234	0	5.00000	36.0000	13.0684	4.02082	12.4980	9.25894	16.8701
ZN	234	0	37.0000	400.000	125.184	53.7771	115.908	79.0365	169.982

HISTO: V269 BOGG POOH GRID 1990 RUN ON 90:11:16 AT 12:07:59

File: pooh-90.utm Field name: AG LOG = 1 REPVAL = .00100

234 SAMPLES WITH AG MINIMUM: .100000 MAXIMUM: 2.00000

234 VALUES PLOTTED: 0 NOT IN RANGE .100000 to 2.00000

GEOMETRIC MEAN: .382898 DISPERSION: .210449 .696656

SCALE OF HISTOGRAM IS 2.00 COUNTS /PRINT POSITION # = 5,50,95%

N	MIDPOINT	PERCENT	0 20 40 60 80
			I---------I---------I---------I---------I
15	.10000	# 6.41	I******** I
0	.10778	.00	I I
0	.11616	.00	I I
0	.12519	.00	I I
0	.13493	.00	I I
0	.14542	.00	I I
0	.15673	.00	I I
0	.16892	.00	I I
0	.18206	.00	I I
35	.19621	14.96	I****************** I
0	.21147	.00	I I
0	.22792	.00	I I
0	.24565	.00	I I
0	.26475	.00	I I
0	.28534	.00	I I
46	.30753	19.66	I********************** I
0	.33145	.00	I I
0	.35722	.00	I I
0	.38500	.00	I I
44	.41494	# 18.80	I********************** I
0	.44721	.00	I I
33	.48199	14.10	I****************** I
0	.51948	.00	I I
0	.55988	.00	I I
23	.60342	9.83	I************ I
0	.65035	.00	I I
13	.70092	5.56	I******* I
0	.75543	.00	I I
9	.81418	3.85	I***** I
0	.87750	.00	I I
0	.94574	.00	I I
7	1.0193	# 2.99	I**** I
0	1.0986	.00	I I
2	1.1840	.85	I* I
2	1.2761	.85	I* I
1	1.3753	.43	I* I
2	1.4823	.85	I* I
1	1.5975	.43	I* I
0	1.7218	.00	I I
0	1.8557	.00	I I
1	2.0000	.43	I* I
-----			I---------I---------I---------I---------I
234			0 20 40 60 80

HISTO: V269 BOGG POOH GRID 1990 RUN ON 90:11:16 AT 12:07:59

File: pooh-90.utm Field name: AU1 LOG = 1 REPVAL = .00100

234 SAMPLES WITH AU1 MINIMUM: 2.50000 MAXIMUM: 465.000

46 VALUES PLOTTED: 188 NOT IN RANGE 7.00000 to 465.000

GEOMETRIC MEAN: 32.3297 DISPERSION: 11.7005 89.3308

SCALE OF HISTOGRAM IS .40 COUNTS /PRINT POSITION # = 5,50,95%

N	MIDPOINT	PERCENT	0 4.0 8.0 12 16
			I---------I---------I---------I---------I
0	7.0000	.00	I I
0	7.7742	.00	I I
0	8.6341	.00	I I
9	9.5890	# 19.57	I********** I
0	10.650	.00	I I
0	11.827	.00	I I
0	13.136	.00	I I
6	14.588	13.04	I********** I
0	16.202	.00	I I
0	17.994	.00	I I
6	19.984	13.04	I********** I
0	22.195	.00	I I
2	24.649	# 4.35	I***** I
0	27.376	.00	I I
3	30.403	6.52	I******** I
1	33.766	2.17	I*** I
0	37.501	.00	I I
4	41.649	8.70	I********** I
2	46.255	4.35	I***** I
0	51.371	.00	I I
2	57.053	4.35	I***** I
1	63.363	2.17	I*** I
1	70.371	2.17	I*** I
1	78.154	2.17	I*** I
0	86.798	.00	I I
1	96.399	2.17	I*** I
1	107.06	2.17	I*** I
1	118.90	2.17	I*** I
0	132.05	.00	I I
1	146.66	2.17	I*** I
0	162.88	.00	I I
2	180.89	# 4.35	I***** I
0	200.90	.00	I I
0	223.12	.00	I I
0	247.80	.00	I I
0	275.21	.00	I I
0	305.65	.00	I I
0	339.45	.00	I I
0	377.00	.00	I I
1	418.69	2.17	I*** I
1	465.00	2.17	I*** I
-----			I---------I---------I---------I---------I
46			0 4.0 8.0 12 16

HISTO: V269 BOGG POOH GRID 1990 RUN ON 90:11:16 AT 12:07:59

File: pooh-90.utm Field name: CU LOG = 1 REPVAL = .00100

234 SAMPLES WITH CU MINIMUM: 10.0000 MAXIMUM: 170.000

234 VALUES PLOTTED: 0 NOT IN RANGE 10.0000 to 170.000

GEOMETRIC MEAN: 41.2048 DISPERSION: 24.6593 68.8515

SCALE OF HISTOGRAM IS .50 COUNTS /PRINT POSITION # = 5,50,95%

N	MIDPOINT	PERCENT	0 5.0 10.0 15 20
			I---------I---------I---------I---------I
1	10.000	.43	I** I
1	10.734	.43	I** I
0	11.522	.00	I I
1	12.368	.43	I** I
1	13.275	.43	I** I
0	14.250	.00	I I
3	15.296	1.28	I****** I
2	16.418	.85	I**** I
5	17.623	# 2.14	I********** I
2	18.917	.85	I**** I
6	20.305	2.56	I************ I
3	21.796	1.28	I****** I
8	23.396	3.42	I**************** I
11	25.113	4.70	I********************** I
6	26.956	2.56	I************ I
10	28.935	4.27	I******************** I
19	31.058	8.12	I** I
6	33.338	2.56	I************ I
18	35.785	7.69	I********************************** I
8	38.412	3.42	I**************** I
10	41.231	# 4.27	I******************** I
15	44.257	6.41	I****************************** I
19	47.506	8.12	I** I
12	50.993	5.13	I************************ I
9	54.736	3.85	I****************** I
6	58.753	2.56	I************ I
9	63.066	3.85	I****************** I
10	67.695	4.27	I******************** I
6	72.663	2.56	I************ I
6	77.997	2.56	I************ I
2	83.722	.85	I**** I
4	89.867	1.71	I******** I
0	96.463	.00	I I
3	103.54	1.28	I****** I
5	111.14	# 2.14	I********** I
3	119.30	1.28	I****** I
0	128.06	.00	I I
2	137.46	.85	I**** I
0	147.55	.00	I I
0	158.38	.00	I I
2	170.00	.85	I**** I
-----			I---------I---------I---------I---------I
234			0 5.0 10.0 15 20

HISTO: V269 BOGG POOH GRID 1990 RUN ON 90:11:16 AT 12:07:59

File: pooh-90.utm Field name: PB LOG = 1 REPVAL = .00100

234 SAMPLES WITH PB MINIMUM: 5.00000 MAXIMUM: 36.0000

234 VALUES PLOTTED: 0 NOT IN RANGE 5.00000 to 36.0000

GEOMETRIC MEAN: 12.4980 DISPERSION: 9.25894 16.8701

SCALE OF HISTOGRAM IS 1.00 COUNTS /PRINT POSITION # = 5,50,95%

N	MIDPOINT	PERCENT	0 10.0 20 30 40
			I---------I---------I---------I---------I
2	5.0000	.85	I** I
0	5.2529	.00	I I
0	5.5187	.00	I I
0	5.7979	.00	I I
2	6.0912	.85	I** I
0	6.3994	.00	I I
0	6.7231	.00	I I
7	7.0632	2.99	I******* I
0	7.4206	.00	I I
0	7.7960	.00	I I
9	8.1904	# 3.85	I********* I
0	8.6047	.00	I I
18	9.0400	7.69	I****************** I
0	9.4974	.00	I I
28	9.9778	11.97	I**************************** I
0	10.483	.00	I I
26	11.013	11.11	I************************** I
0	11.570	.00	I I
23	12.155	9.83	I********************** I
27	12.770	# 11.54	I**************************** I
0	13.416	.00	I I
19	14.095	8.12	I******************* I
16	14.808	6.84	I**************** I
0	15.557	.00	I I
15	16.344	6.41	I*************** I
13	17.171	5.56	I************* I
10	18.040	4.27	I********** I
4	18.953	1.71	I**** I
6	19.911	# 2.56	I****** I
2	20.919	.85	I** I
2	21.977	.85	I** I
2	23.089	.85	I** I
1	24.257	.43	I* I
1	25.484	.43	I* I
0	26.773	.00	I I
0	28.128	.00	I I
0	29.551	.00	I I
0	31.046	.00	I I
0	32.616	.00	I I
0	34.267	.00	I I
1	36.000	.43	I* I
-----			I---------I---------I---------I---------I
234			0 10.0 20 30 40

HISTO: V269 BOGG POOH GRID 1990 RUN ON 90:11:16 AT 12:07:59

File: pooh-90.utm Field name: ZN LOG = 1 REPVAL = .00100

234 SAMPLES WITH ZN MINIMUM: 37.0000 MAXIMUM: 400.000

58 VALUES PLOTTED: 176 NOT IN RANGE 150.000 to 400.000

GEOMETRIC MEAN: 193.828 DISPERSION: 153.703 244.426

SCALE OF HISTOGRAM IS .20 COUNTS /PRINT POSITION # = 5,50,95%

N	MIDPOINT	PERCENT	0 2.0 4.0 6.0 8.0
			I---------I---------I---------I---------I
4	150.00	# 6.90	I********** I
5	153.72	8.62	I************ I
5	157.54	8.62	I************ I
6	161.45	10.34	I*************** I
3	165.46	5.17	I******* I
4	169.57	6.90	I********** I
0	173.77	.00	I I
1	178.09	1.72	I** I
4	182.51	# 6.90	I********** I
0	187.04	.00	I I
2	191.68	3.45	I***** I
0	196.44	.00	I I
1	201.32	1.72	I** I
0	206.32	.00	I I
2	211.44	3.45	I***** I
3	216.69	5.17	I******* I
4	222.06	6.90	I********** I
1	227.58	1.72	I** I
1	233.23	1.72	I** I
0	239.02	.00	I I
2	244.95	3.45	I***** I
2	251.03	3.45	I***** I
1	257.26	1.72	I** I
1	263.65	1.72	I** I
1	270.19	1.72	I** I
2	276.90	3.45	I***** I
0	283.77	.00	I I
1	290.82	# 1.72	I** I
0	298.04	.00	I I
0	305.43	.00	I I
0	313.02	.00	I I
0	320.79	.00	I I
1	328.75	1.72	I** I
0	336.91	.00	I I
0	345.27	.00	I I
0	353.85	.00	I I
0	362.63	.00	I I
0	371.63	.00	I I
0	380.86	.00	I I
0	390.31	.00	I I
1	400.00	1.72	I** I
-----			I---------I---------I---------I---------I
58			0 2.0 4.0 6.0 8.0

CORMAT: RUN ON 90:11:16 AT 12:07:59

Data from file: pooh-90.utm

V269 BOGG POOH GRID 1990

Correlation matrix for 234 records with 5 variables

	AG	AU1	CU	PB	ZN
LOG:	1	1	1	1	1
AG	1.000	-.034	.361	.249	.512
AU1	-.034	1.000	.154	.155	-.044
CU	.361	.154	1.000	.535	.318
PB	.249	.155	.535	1.000	.246
ZN	.512	-.044	.318	.246	1.000

Number of data pairs contributing to correlation

	AG	AU1	CU	PB	ZN
AG	234	234	234	234	234
AU1	234	234	234	234	234
CU	234	234	234	234	234
PB	234	234	234	234	234
ZN	234	234	234	234	234

APPENDIX II

Rock Sample

Descriptions and Geochemical Data

EN GRID ROCK SAMPLE DESCRIPTIONS
1990

SAMP	NORTH	EAST	ROCK	ABBREVIATED DESCRIPTION	Au (ppb)
52776	9755	12492	P2a	Near contact, trace diss'd py.	2.50
52777	9660	12480	S1	Diss'd, vein py, baked, qz veining.	2.50
52778	9652	12440	S3	Vein, diss'd py, mp.	115.00
52779	9605	12510	P2a	Coarse, trace diss'd py.	2.50
52780	8974	11905	Vt1	Mafic to felsic, fragments, py, mp.	2.50
52781	9230	11700	S2,S3	Silicified, py, chl veins, black cb.	2.50
52782	8950	12300	P1a	Adj to 52850, chl, cb altered, diss'd py.	2.50
52783	8900	12275	S2	Adj to intrusive, cb altered	2.50
52784	10305	11730	S3?	Intense chl veins, alt'n, diss'd, vein py, qv.	20.00
52785	10315	11800	S3	Si, diss'd, vein py, qv.	60.00
52786	10402	11785	S3,Vt1	Cb alt'n, qz veins, py, mp.	2.50
52787	10394	11786	S4b	Brecciated, chl, cb.	2.50
52788	10398	11790	S5b	Debris flow, cb, diss'd py.	2.50
52789	10407	11892	S1	Fractured, diss'd, vein py, cb.	2.50
52790	10325	11920	P2a	Trace py, cb around qz phenocrysts.	2.50
52791	10180	11340	S3	Minor chl, mp alt'n, qz stwk.	2.50
52792	10405	11306	S3	Chl altered, si, diss'd py, mp.	2.50
52793	10406	11308	P2a	Weathered, diss'd py, qz rich contact w adj S3.	350.00
52794	10293	12265	S2	Brecciated, black chl alt'n, diss'd, vein py.	2.50
52795	10445	12365	P2a	May be float, coarse, rusty, diss'd py, close to contact.	2.50
52796	10447	12363	S2	Heavily altered, diss'd py, adj to 52795.	2.50
52797	10406	11308	S3	Diss'd py, mp, qz stwk.	20.00
52798	9625	11320	S3	Diss'd, vein py, siliceous, qv.	10.00
52799	9635	11400	S3	Altered, chl, qz stwk, rusty, intense cb alt'n.	10.00
52800	9600	11375	S5b	Sheared, adj to P1a, cb altered, chl, py.	2.50
52801	10258	11386	Vt1	Hornfels, qv, diss'd, vein py, unoxidized.	10.00
52802	10154	11462	P1a	Massive, py, po.	45.00
52803	10176	11458	Qv	Qz - cb shear zone in Vt1, minor P1a assoc'd.	600.00
52804	10223	11400	Vt1	Brecciated, qz stwk, diss'd, vein py.	2.50
52805	10111	11404	Vt1	Fractured, altered, 5% fracture control py.	2.50
52806	10020	11224	P3,P2a	Py, oxidized, qz veining.	5.00
52807	10135	11228	S3	Chl veins, diss'd, vein py.	2.50
52808	10302	11198	S3	Massive, chl veins, diss'd, vein py.	5.00
52809	10305	11179	P2a	Some S3, diss'd, vein py, chl, mp.	2.50
52810	11029	10305	P3	Massive, fine grained, qz, diss'd, vein py.	2.50
52811	10194	11005	Qv,S3	Assoc'd py, vein fractured.	260.00
52812	10193	11005	S3	Adj to 52811, chl, diss'd, vein py.	70.00
52813	10059	10000	S3	S3 fragments in si matrix, mp, py.	5.00
52814	10085	11598	Vt1	May be felsic dyke, diss'd py, qv.	10.00
52815	10225	11580	S3	Qz stwk, py, qz - cp - py macrovein.	60.00
52816	10295	11575	Vt1	Felsic dyke? similar desc to 52814.	25.00
52817	10285	11521	S3	Brecciated, vein, diss'd py.	2.50
52818	10324	11701	Vt1	Fine grained, mp, py, chl.	520.00
52819	10263	11572	P2,P3	Interbedded, diss'd, vein py, minor cp, up slope from mp rich shear.	2.50
52820	9725	11526	S3	Cl in xcutting veins, some w central qz stwk, silicified	2.50
52821	9545	11530	S3	Si; qv glassy; greenish mineral assoc w qv.	2.50

SAMP	NORTH	EAST	ROCK	ABBREVIATED DESCRIPTION	Au (ppb)
52822	9475	11525	S3	Coarser, cl in fragments w py, mp rims euhedral py, earlier glassy qv and later milky event.	2.50
52823	9460	11503	P2a	Milky qv, adj rocks contain mp, altered.	2.50
52824	9323	11485	P1a	40 cm, cb perv and veins, chl, adj rock has qz stwk.	2.50
52825	9320	11465	P5b	Chl, cb altered, S3 fragments, qv, mp, py.	30.00
52826	10020	10795	S3	Hard, light grey, some mp, close to soil geochem.	2.50
52827	10152	10795	S3	May be float; qv irregular, rusty with py, mp; cl veins	2.50
52828	10027	10600	S3	Euhedral py, black cl veins extensive, xcut each other.	2.50
52829	9660	11680	S3	Med grained, selective mp alt'n of fragments.	2.50
52830	9585	11615	S2	Chl veins, diss and vein py.	2.50
52831	9460	11600	S3	@ intersection of two structures, diss py, qv.	10.00
52832	9300	11625	S5a	10m from P2a, qz, bi along fracture surfaces.	2.50
52833	9308	11615	P2a,S3	Silicified contact, py, green mineral, qz.	40.00
52834	9590	11775	S3	Si, chl vein alt'n, he.	2.50
52835	9592	11775	S3	In contact w 52834, rexal'd, mp, cb, py.	2.50
52836	9605	11805	S2,S1	chl veins, qz stwk tension gashes, cb, py.	10.00
52837	9730	11850	P1b	Porphyritic, mp-py altered rock adj.	2.50
52838	8940	12485	S2	Chl veins, py in fracture planes, silicified.	2.50
52839	8880	12495	P2a	Diss'd py, he, adj S2 rusted, w qz stwk, cb.	2.50
52840	8750	12530	P1a	Minor phenocrysts, po, adj S3,S2 contain graphite.	2.50
52841	8750	12515	S2	Adj to 52840, qz stwk, cb, py.	2.50
52842	8535	12320	P5b	Perv chl, cb veins.	2.50
52843	8538	12313	P2a	Diss py, mg, cb alt'n, coarse, little kf, adj to 52842.	2.50
52844	8655	12300	P5b	Silicified, cb veins.	2.50
52845	8680	12305	P1a	Diss'd py, intense cb alt'n.	2.50
52846	9700	12208	S2	Chl, cb veins, grain size varies.	2.50
52847	9120	12300	P1b	Fine grained, diss'd py, po, cb alt'n.	30.00
52848	9105	12300	S3	Adj to 52847, minor chl alt'n, cb alt'n.	2.50
52849	9025	12310	P1a	Chl altered, diss'd py, he, poss mp.	5.00
52850	8950	12302	P2a	Coarse grained, diss'd py, he.	2.50
54626	9600	11370	S5b	Sheared, S3 clasts, chl, cb, py.	2.50
54627	9600	11393	S3	Chl stwk, si, qz stwk, py.	2.50
54628	9550	11395	S3	Unaltered, light grey.	2.50
54629	9565	11400	S5b	Angular fragments, si, py.	2.50
54630	9415	11397	S5b	Massive, chl, cb, py, less breccia.	2.50
54631	9415	11390	S3	Same outcrop as 54630, si, mp, py, brecciated.	70.00
54632	9869	11200	Vt1	Diss'd py, mp, minor chl alt'n, siliceous, may be float.	2.50
54633	9690	11210	S3	Diss'd, vein py, reddish, bleached adj to qv.	2.50
54634	9595	11195	S3	Diss'd py, vein black chl, cb, qz veining.	20.00
54635	9580	11230	S3	Si, intense black chl veins, brecciated look.	2.50
54636	9575	11225	S3	Chloritic, cb altered, adj to 54635, @ btm of gulley.	2.50
54637	9950	11100	S3	Diss'd py, trace mp.	180.00
54638	9520	11015	S3	Coarser, si, perv li, cb, chl veins, diss'd py.	2.50
54639	10305	10695	S3	Minor shear, diss'd py, qz - cb breccia infill.	35.00
EN001	9875	10700	S2	Multielement soil geochem, sheared, cb, rusty, blk qz.	2.50
EN002	9875	10695	S3	Same outcrop as EN001, black qz augens.	2.50
EN003	10100	11000	S3	Minor soil geochem, diss'd py, minor mp.	2.50
EN004	10180	11100	Vt1	Diss'd py, mp, glassy qz veins.	2.50
EN005	50010	49620	S2	Similar to EN001, less sheared, black qz augens.	2.50

BOGG GRID ROCK SAMPLE DESCRIPTIONS
1990

SAMP	NORTH	EAST	ROCK	ABBREVIATED DESCRIPTION	Au(ppb)	Cu(ppm)	Ag(ppm)
52727	39640	39043	P1a	Poss Vtl, silicified, he - py veins, kf veins	10.00	NS	NS
52728	39615	39050	P1a	Silicified, kf veins, hs, qz stwk, minor chl.	2.50	NS	NS
52729	39600	39050	P1a	Chl - ep alt'n, kf veins, sheared, close to soil geochem	2.50	NS	NS
52730	39590	39047	P2a	Has qz veins up to 1cm wide.	2.50	NS	NS
52731	39545	39025	Qv	Rusty, central kf, hs, minor py throughout.	405.00	NS	NS
52732	39500	39050	P2a	Close to soil geochem, bull qv, no py.	2.50	NS	NS
52733	39575	39143	P1a	Silicified, kf veins, hs-py veins, qz stwk, diss py, cb.	2.50	NS	NS
52734	39585	39125	P1a	Same outcrop as 52733, kf alt'n, qz stwk, py, chl.	2.50	NS	NS
52735	39600	39145	P1a	Silicified, chl alt'n, kf patches, vein py.	235.00	NS	NS
52736	39640	39144	P1a	Silicified, qz stwk, chl, minor kf.	2.50	NS	NS
52737	39560	39153	P2a	Diss'd he, py, qz veins, poss chl assoc w py.	590.00	NS	NS
52738	39440	38290	P2a,Qv	Adj to 52775, minor shearing, rust.	2.50	NS	NS
52739	39570	38208	P1a	Silicified, chl, cb, veins of kf, hs, trace py, cp.	2.50	NS	NS
52740	40125	41670	S3,S2	Bedded S3/S2, diss'd py, qv, minor cb.	20.00	NS	NS
52741	40255	41580	S2	Fine grained, ch - py - chl veins.	25.00	NS	NS
52742	40300	41608	S5b	S3/S2 in qz rich matrix, silicified, minor Phl veins.	35.00	NS	NS
52743	40350	41600	P1b	Fine to med grained, chl altered, cb, down slope from 52742.	25.00	NS	NS
52744	40435	41560	S3	Altered, si, cb, kf, pathed chl, mp alt'n.	2.50	NS	NS
52745	40435	41560	P1a	Adj to 52744, Phl?, chl - ep alt'n, cb, py.	20.00	NS	NS
52746	40400	41550	Vt1	On 5000 ppb soil, si, chl - cb alt'n, kf, proximal to similar rock to 52745.	45.00	NS	NS
52747	40450	41480	Vt1	Chl, cb vein to perv altered, qz veins, py.	30.00	NS	NS
52748	40305	41525	S4a	Interbedded w S2, cb patchy, may be cb - S3	15.00	NS	NS
52749	40305	41525	S2	Interbedded w S4a, cherty looking.	20.00	NS	NS
52750	40275	41540	S4a	Py, qz veins, light green.	2.50	NS	NS
52751	39630	38990	P1a	Silicifeid, chl alt'n, qz stwk, py, kf veins.	2.50	NS	NS
52752	39605	39704	P1a	Qz - chl, minor cb alt'n, py, hs, mg, kf veins.	2.50	NS	NS
52753	39605	39007	P1a	Silicified, qz - cb - chl alt'n, py.	595.00	NS	NS
52754	39010	39585	P2a	Minor py fracture fill.	150.00	NS	NS
52755	39000	39572	P2a,Qv	With milky qz veins, both w trace py.	5.00	NS	NS
52756	38950	39570	P1a	10 m from contact w P2a, soil geochem, si - chl, py.	305.00	NS	NS
52757	38950	39610	P1a	Chl - si - cb alt'n, py, cp.	400.00	NS	NS
52758	39565	38850	P1a	Silicic, poss biotite, diss'd py, little chl.	170.00	NS	NS
52759	39525	38860	P2a	Minor diss'd py.	15.00	NS	NS
52760	39525	38800	P2a	Less py.	75.00	NS	NS
52761	39540	38780	P1a	Silica, cb alt'n, poss bi, rusty.	2.50	NS	NS
52762	39575	38800	P1a	Chl - ep altered, diss'd py.	2.50	NS	NS
52763	39530	38750	P1a	Perv si, chl alt'n, diss'd py.	215.00	NS	NS
52764	39525	38685	P1a	Perv si, kf alt'n, minor chl,diss'd py.	50.00	NS	NS
52765	39650	38650	P1a	Silica, cb alt'n, diss'd py, he.	5.00	NS	NS
52766	39555	38650	P1a,P2a	Chl - ep ,xcut by felsic dykes.	2.50	NS	NS
52767	39525	39650	P1a	Next to P2a, Si, kf alt'n, diss'd py.	60.00	NS	NS
52768	39590	38595	P1a	Silica, kf alt'n, diss'd py.	2.50	NS	NS
52769	39685	38490	Phl	Ultramafic, py fracture fill.	10.00	NS	NS
52770	39687	38480	P1a	Dyke, silicified, diss'd py.	2.50	NS	NS

NS = No sample

SAMP	NORTH	EAST	ROCK	ABBREVIATED DESCRIPTION	Au(ppb)	Cu(ppm)	Ag(ppm)
52771	39723	38502	P1a	Silicified, minor chl. diss'd py.	20.00	NS	NS
52772	39728	38407	P1a	Silicified, minor chl, diss py, poss fault or shear.	2.50	NS	NS
52773	39715	38447	P1a	Silicified, minor diss'd py.	2.50	NS	NS
52774	39225	38210	P2a	Matrix clay altered, powdery, qz veins, chl	5.00	NS	NS
52775	39435	38288	Qv,P2a	.75m x 10m, kf, trace py.	2.50	NS	NS
54601	40150	41955	S3,S2	On soil geochem, qz - cb stwk, py diss'd, veinned.	75.00	NS	NS
54602	40205	42010	S3	Silicified, qz stwk, blk cb.	120.00	NS	NS
54603	40300	41853	S2	Qz stwk w py, little diss'd py.	10.00	NS	NS
54604	40225	41835	P2b	May be erratic, coarse, 15% biotite.	15.00	NS	NS
54605	40150	41850	S3	Altered, qz stwk, py js.	35.00	NS	NS
54606	40077	41900	P2a	Rusted, trace py.	2.50	NS	NS
54607	40270	41765	S3	Similar to En grid rocks, qz stwk, py, mp.	60.00	NS	NS
54608	40270	41765	S2	Adj to 54607, qz stwk, py, rusty.	55.00	NS	NS
54609	40445	41305	Vt1	Perv chl alt'n, py, cb.	20.00	NS	NS
54610	40435	41305	Vt1	Intense chl alt'n, qz stwk, cb, js, poss kf veins.	10.00	NS	NS
54611	40030	41335	P2a	Minor biotite, trace py, adj to ch altered S2.	2.50	NS	NS
54612	40075	41250	Vt1	Chl - qz alt'n, py, may be sediment.	2.50	NS	NS
54613	40245	41240	Vt1	Altered, qz, py, js, mp, kf.	20.00	NS	NS
54614	40210	41200	Vt1	Altered, qz, py.	2.50	NS	NS
54615	40457	41090	Vt1	Chl - ep, py, cb, qz stwk, clasts of P2b?	2.50	NS	NS
54616	39950	40160	Vt1	Close to soil geochem, chl alt'n w py, cherty qz - chl veins.	2.50	NS	NS
54617	39955	41965	S3,S2	Chl - cb alt'n, qz stwk, diss'd py.	10.00	NS	NS
54618	39873	41800	S3,S2	Similar to 54617, js, chl alt'n, qz - cb veins.	35.00	NS	NS
54619	49930	41610	S3,S2	Patchy chl alt'n, qz stwk, cb, js.	15.00	NS	NS
54620	39865	41475	S2	Soil geochem, glassy qz stwk, rusty, cb.	5.00	NS	NS
54621	39990	41500	S3,S2	Diss'd, vein py, silicified, qz stwk w cb rims, kf?	20.00	NS	NS
54622	40025	41545	S3	Stained red (js), little py.	20.00	NS	NS
54623	40250	41443	P1c	Hbld, plag phenocrysts, chl - cb alt'n, qz rich clasts.	15.00	NS	NS
54624	40085	41405	Vt1	Chl, si altered, py, he, hs, brecciated.	55.00	NS	NS
54625	40050	41560	P2a	Diss'd py, he.	2.50	NS	NS
54651	42501	40250	Vt1	Si - chl altered, cb, py, poss cp.	235.00	NS	NS
54652	42500	40073	Vt1	Bleached, cb, poss kf alt'n, chl, py.	30.00	NS	NS
54653	42402	41800	S2,Si	Tectonic breccia, silicified, py micrveons.	460.00	NS	NS
54654	42312	41775	S2	Tectonic breccia, qz, py.	80.00	NS	NS
54655	40207	42025	S5a	Silicified, cb, bleached, mp, py.	2.50	NS	NS
54656	40195	40228	S2	Bleached, brecciated, silicified, diss'd, vein py.	20.00	NS	NS
54657	40060	40750	S2	Qz - cb - kf alt'n, py diss'd.	2.50	NS	NS
54658	40130	40700	S2	Similar to 54657, minor chl alt'n, he fractures.	100.00	NS	NS
54659	40203	40755	S2	Qz - cb altered, may be Vt1, diss'd, vein py.	2.50	NS	NS
54660	40300	40700	Qv	Rusty, he filled fractures.	2.50	NS	NS
54661	40085	40790	S2	Cb altered, kf, hs, py.	10.00	NS	NS
54662	40204	41000	P1a?	Silicified, py, cp, mp, cb veins, rusty.	90.00	NS	NS
54663	40221	41006	S2,Vt1?	Intense si, chl alt'n, py, hs, cb.	25.00	NS	NS
54664	40290	41050	S2?	Qz - cb alt'n, py, hs, minor chl.	40.00	NS	NS
54665	39230	37975	P2a,Qv	8m composite, 2% qz veins, structural zone.	35.00	NS	NS
54666	39230	38400	P2a,Qv	Composite grab sample, 5% qz veins, trace sulphides.	30.00	NS	NS
54667	40423	38900	P2a,P1a	Contact, chl alt'n, py, cp, bn.	330.00	58000.00	333.00
54668	40423	38899	Va,P2a	Similar to 54667, no bn, more cp.	30.00	23700.00	80.00
54669	40423	38898	Va,P1a	Chl alt'n, cb, cp, malachite.	15.00	19200.00	28.00

NS = No sample

SAMP	NORTH	EAST	ROCK	ABBREVIATED DESCRIPTION	Au(ppb)	Cu(ppm)	Ag(ppm)
54670	40422	38898	P2a,Va	Contact, cp, ma, hs.	90.00	8400.00	33.00
54671	39980	41160	S3	Soil geochem, bleaced, diss'd py, bedded.	10.00	NS	NS
54672	39350	40170	P1a	Chl, py, po, cb altered, upslope from soil geochem.	10.00	NS	NS
54673	39440	39905	P1a	Sheared, chl - ep alt'n, cb, kf veins.	10.00	NS	NS
54674	39707	39905	Vt1	Silicified, he veins, py diss'd, veins.	15.00	NS	NS
54675	40110	39195	P1a	Adj to P2a, silicified, kf, qz - cb veins, may be Vt1.	2.50	NS	NS
54683	40225	41540	S3	Grey, massive, boudinaged qz vein, minor py.	2.50	NS	NS
54684	40225	41525	S3	Py veins w ch envelopes.	2.50	NS	NS
54685	40200	41500	S4a	Py diss'd and veins, cb veins, qz stwk.	15.00	NS	NS
54686	40225	41475	S2,S4a	Sedimentary breccia, interbedded, diss'd py.	2.50	NS	NS
54687	40375	41350	S3?	Altered, poss kf alt'n, chl, near trench w qz-chl alt'n	2.50	NS	NS
54688	40440	41350	S3?	Similar to 54687, hard, si, kf, qv, little chl.	20.00	NS	NS
54689	40365	41310	Vt1	Chl, js alt'n, little cb, similar to 54687.	85.00	NS	NS
54690	40120	41680	S2,Qv	Several qz stwk, py w qz, rusty.	10.00	NS	NS
54691	40030	41675	P2a	Trace diss'd py.	5.00	NS	NS
54692	40040	41682	S3,S2	Silicified, py, qz stwk, close to contact w 54691.	2.50	NS	NS
54693	40053	41640	P2a,S3	Silicified contact, rusty, kf alt'n, qz stwk.	2.50	NS	NS
KE001	40110	39195	P2a	Py, silicified, rusty.	5.00	NS	NS
KE002	40325	39200	Vt1	Silicified, kf, qz stwk, rusty and bull, cb.	140.00	NS	NS
KE003	40325	39200	Vt1	At contact w P1a, 20 30% rusty qz veins, cb, 5% py.	1460.00	NS	NS
KE004	40425	39600	P1a?	Silicified, cb, little qz stwk, py.	2.50	NS	NS
LW001	40385	38883	Va,P1a	Chloritic, qz veins, intense alt'n, cp, cb.	25.00	NS	NS
LW002	40368	38870	P2a,P1a	Near fault, cb, hs, py, cp.	45.00	NS	NS
LW003	40313	38830	P2a	Clot cp.	2.50	NS	NS
LW004	40480	38919	P2a,P1a	Contact, diss'd, vein py, cp.	2.50	8100.00	15.00
LW005					2.50	NS	NS
LW006	40096	39402	S2,P1a?	Si - cb alt'n, py, mp, cp.	2.50	384.00	NS
LW007	40080	39412	P1a	Si, chl, fractured, bleached, py, cp.	10.00	310.00	NS
LW008	39990	39465	Vt1?	Si, fractured, bleached, py, cp.	25.00	770.00	NS
LW009	39800	39425	Vt1?	Tectonic breccia, sheared, cb alt'n, cp, py, ma.	15.00	303.00	NS
LW010	50020	51400	Vt1?,Qv	Tectonic breccia, qz - cb alt'n, cp, py.	20.00	163.00	NS
54676	88-8,	36.0 -	37.0m	Previous assay of 960ppb Au.	50.00	NS	NS
54677	88-8,	37.0 -	38.0m	Previous assay of 960 ppb Au.	230.00	NS	NS
54678	88-8,	38.0 -	39.0m	Between high Au values.	2.50	NS	NS
54679	88-8,	39.0 -	40.0m	Between high Au values.	115.00	NS	NS
54680	88-8,	40.0 -	41.0m	Previous assay of 680 ppb Au.	60.00	NS	NS
54681	88-8,	41.0 -	42.0m	Previous assay of 680 ppb Au.	95.00	NS	NS
54682	88-7,	12.0 -	14.0m	Previous assay of 630 ppb Au.	30.00	NS	NS

NS = No sample

APPENDIX III

Rock Geochemical

Statistical Summary and Histograms

P L A C E R D O M E I N C.

Placer Data Analysis System - STATS

run on 90:11:26 at 15:37:44

EN AND BOGG GRIDS 1990 ROCK SAMPLES

Summary of data from file : enbog.rck

This data file contains an internal header: (5 records)
Data grouped into 8 fields
with format: (5A8, 3F10.2)

Character ID fields:
GRID SAMP SMP2 PROJ TYPE

Coordinate fields:

Other data fields:
AU1 CU AG

Missing data indicated by NULL value 99999.0

BASIC STATISTICS OF SELECTED DATA FIELDS:

NAME	NDATA	NULLS	MINIMUM	MAXIMUM	MEAN	STD. DEV.	GEOM. MEAN	DISPERSION	
AU1	244	0	2.50000	1460.00	47.8791	134.378	9.62897	1.91612	48.3879

HISTO: EN AND BOGG GRIDS 1990 ROCK SAMPLES RUN ON 90:11:26 AT 15:37:44

File: enbog.rck Field name: AU1 LOG = 1 REPVAL = .00100

244 SAMPLES WITH AU1 MINIMUM: 2.50000 MAXIMUM: 1460.00

243 VALUES PLOTTED: 1 NOT IN RANGE 2.50000 to 700.000

GEOMETRIC MEAN: 9.43204 DISPERSION: 1.93280 46.0282

SCALE OF HISTOGRAM IS 4.00 COUNTS /PRINT POSITION # = 5,50,95%

N	MIDPOINT	PERCENT	0 40 80 120 160
			I---------I---------I---------I---------I
119	2.5000	# 48.97	I******************************** I
0	2.8782	.00	I I
0	3.3136	.00	I I
0	3.8148	.00	I I
0	4.3919	.00	I I
12	5.0563	# 4.94	I*** I
0	5.8212	.00	I I
0	6.7018	.00	I I
0	7.7156	.00	I I
0	8.8828	.00	I I
18	10.227	7.41	I***** I
0	11.774	.00	I I
0	13.555	.00	I I
9	15.605	3.70	I** I
0	17.966	.00	I I
16	20.683	6.58	I**** ANOMALOUS I
7	23.812	2.88	I** I
0	27.415	.00	I I
8	31.562	3.29	I** I
5	36.336	2.06	I* MODERATELY ANOMALOUS I
2	41.833	.82	I* I
6	48.161	2.47	I** I
2	55.447	.82	I* I
5	63.834	2.06	I* I
4	73.491	1.65	I* I
5	84.608	2.06	I* HIGHLY ANOMALOUS I
2	97.407	.82	I* I
3	112.14	1.23	I* I
0	129.11	.00	I I
2	148.64	.82	I* I
2	171.12	.82	I* I
0	197.01	.00	I I
5	226.81	# 2.06	I* I
1	261.12	.41	I I
1	300.62	.41	I I
2	346.10	.82	I* I
2	398.46	.82	I* I
1	458.73	.41	I I
1	528.13	.41	I I
3	608.02	1.23	I* I
0	700.00	.00	I I
---			I---------I---------I---------I---------I
243			0 40 80 120 160