

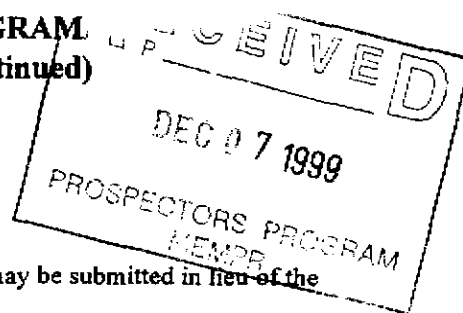
**BRITISH COLUMBIA**  
**PROSPECTORS ASSISTANCE PROGRAM**  
**MINISTRY OF ENERGY AND MINES**  
**GEOLOGICAL SURVEY BRANCH**

PROGRAM YEAR: 1999/2000

REPORT #: PAP 99-9

NAME: RON GRANGER

BRITISH COLUMBIA  
PROSPECTORS ASSISTANCE PROGRAM  
PROSPECTING REPORT FORM (continued)



**B. TECHNICAL REPORT**

- One technical report to be completed for each project area.
- Refer to Program Requirements/Regulations 15 to 17, page 6.
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (see section 16) required with this TECHNICAL REPORT.

Name Ron Granger Reference Number 99/2000 P1A  
082FSE090  
LOCATION/COMMODITIES MINFILE No. if applicable 082FSE036  
Project Area (as listed in Part A) Hughes Ck  
Location of Project Area NTS 82F-7W Lat 49°23' Long 116°57'  
Description of Location and Access both sides of Hughes Ck, access via  
Darkwoods logging roads and old mine road.  
Main Commodities Searched For Au Ag (Pb, Zn, Cu)  
Known Mineral Occurrences in Project Area Wisconsin, Black Douglas

**WORK PERFORMED**

1. Conventional Prospecting (area) 80 h. close
2. Geological Mapping (hectares/scale) 40 h. (1:1000 ~~to~~ 1:5000)
3. Geochemical (type and no. of samples) rocks - 25, soils - 16
4. Geophysical (type and line km)
5. Physical Work (type and amount) cut out 1.2 km trail to Black Douglas
6. Drilling (no. holes, size, depth in m, total m)
7. Other (specify) staked 14 claims (DI 1-14 incl.)

**SIGNIFICANT RESULTS**

Commodities Au Ag Pb Claim Name DI 1 & 4  
Location (show on map) Lat. 5473000 Long 5038000 Elevation 1940m  
Best assay/sample type 2.41g/t Au, 386.0g/t Ag, 19.35% Pb (1917 ppm Cu,  
666 ppm Cd, 770 ppm Sb, 1453 ppm Zn) Assays & 281 CP. Rock.  
Description of mineralization, host rocks, anomalies  
all mineralization oxidized; massive sulphide is repre-  
sented by dark brown to black sponge-like material.  
This program I finally noticed that smaller E-W  
veins are significant in mineralizing events. The  
previous Au, etc. soil anomaly extends NE at least 300m  
further than previously known - no OC in the area.

**Supporting data must be submitted with this TECHNICAL REPORT**

Information on this form is confidential for one year from the date of receipt subject to the provisions of the Freedom of Information Act.

**BRITISH COLUMBIA  
PROSPECTORS ASSISTANCE PROGRAM  
PROSPECTING REPORT FORM (continued)**

**B. TECHNICAL REPORT**

- One technical report to be completed for each project area.
- Refer to Program Requirements/Regulations 15 to 17, page 6.
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (see section 16) required with this TECHNICAL REPORT.

Name Ron Granger Reference Number 99/2000 PIA  
 LOCATION/COMMODITIES same place {082F5E080  
082F5E053  
 Project Area (as listed in Part A) Boundary L (99 B) MINFILE No. if applicable 082F5E011 \*  
 Location of Project Area NTS 82F-2 Lat 49°02' Long 116°55'  
 Description of Location and Access Boundary Lake area near Idaho border,  
access via Forest Roads - Maryland and Priest R. and  
Nun Cr. trails - Monk Cr. road too.  
 Main Commodities Searched For Ag, Au, Cu

Known Mineral Occurrences in Project Area \*all qtz-carb. zones in Irene Volc<sup>s</sup>. \*The Giant  
is relocation of Homestead CG. See E side Priest R. for loc<sup>n</sup> (Map B.2) of  
old Skylark CG - wrong loc<sup>n</sup> on some maps.

**WORK PERFORMED**

1. Conventional Prospecting (area) 300h. open
2. Geological Mapping (hectares/scale) 40h.
3. Geochemical (type and no. of samples) rocks - 5, soils - 43
4. Geophysical (type and line km) \_\_\_\_\_
5. Physical Work (type and amount) 500 m trail out out to Jubine's showing
6. Drilling (no. holes, size, depth in m, total m) \_\_\_\_\_
7. Other (specify) \_\_\_\_\_

**SIGNIFICANT RESULTS**

Commodities Cu Ag Claim Name none  
 Location (show on map) Lat. 49°02' Long 116°55'30" Elevation 1300 m  
 Best assay/sample type Soil 5899-39 1.0 ppm Ag 580 Ba, 795 ppm Cu, 5744 ppm Mn  
180 ppm Zn

Description of mineralization, host rocks, anomalies most of the work was aimed at  
quartz-carbonate zones in Irene volcanic rocks. Some was in  
qtz vein stockworks in quartzite. The above "high" assay was in  
red soil near an outcrop of q-lb rusty. The Motherlode Zone can  
be traced by Cu in soil 5899-32 to 5899-35 but other  
elements are lacking. Samples 5899-42 & 43 must be close to  
the old Skylark workings but those were not found in the  
dense second growth - 5899-39 seems right on strike.

**Supporting data must be submitted with this TECHNICAL REPORT**

Information on this form is confidential for one year from the date of receipt subject to the provisions of the Freedom of Information Act.

**BRITISH COLUMBIA  
PROSPECTORS ASSISTANCE PROGRAM  
PROSPECTING REPORT FORM (continued)**

**B. TECHNICAL REPORT**

- One technical report to be completed for each project area.
- Refer to Program Requirements/Regulations 15 to 17, page 6.
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (see section 16) required with this TECHNICAL REPORT.

Name Ron Granger Reference Number 99/2000 P14

**LOCATION/COMMODITIES**

Project Area (as listed in Part A) Antler Ck (#99-A) MINFILE No. if applicable \_\_\_\_\_

Location of Project Area NTS 82F-2 Lat 49°13' Long 116°53'

Description of Location and Access The Blazed Ck - Jersey Ck. road leads into this area which is 4 km N-S

Main Commodities Searched For Au, Ag

Known Mineral Occurrences in Project Area perhaps the old Esther claim was here - but plotted poorly.

**WORK PERFORMED**

1. Conventional Prospecting (area) 4 sq. km
2. Geological Mapping (hectares/scale) 200 h. 1:5000
3. Geochemical (type and no. of samples) rocks - 5 ICP, soils - 3 ICP, silt - 1 ICP
4. Geophysical (type and line km) \_\_\_\_\_
5. Physical Work (type and amount) \_\_\_\_\_
6. Drilling (no. holes, size, depth in m, total m) \_\_\_\_\_
7. Other (specify) \_\_\_\_\_

**SIGNIFICANT RESULTS**

Commodities none. Claim Name none  
Location (show on map) Lat. ~~49°12'~~ Long ~~116°53'30"~~ Elevation ~~700m~~  
Best assay/sample type none - Cu in rocks 20ppm - 450ppm in rusty pyritic G.D. & IV  
Description of mineralization, host rocks, anomalies at 116°53', 49°14' see Maps A1 & A-2 a mineralized zone of altered rock that appeared to be formed from rhyolite tuff interbedded with narrow limestone bands. was exciting until assays arrived. Some sulphide at a G.Dip. - Ilok. contact was interesting at first sight - see Map A-1, RA99-2 to 4 which were modestly copper bearing but without other values.

**Supporting data must be submitted with this TECHNICAL REPORT**

Information on this form is confidential for one year from the date of receipt subject to the provisions of the Freedom of Information Act.

## PROSPECTOR'S ASSISTANCE PROGRAM

99/2000 P14

### HUGHES CREEK

Access to the area could not be gained until the 28th of July due to heavy snowpack in the last high pass. A tent with frame was set up at the same site used in the 1997 program and some of the first work was to try to confirm two high tungsten soils obtained near the Wisconsin Crown Granted claim and a very promising multi-element rock assay taken east of the Black Douglas showings. Check samples were taken at both locations; several at each site. New ICP assays failed to confirm the previous work so the work program was redirected proportionate to the changes.

Soil samples taken this season along strike from the Black Douglas in two instances indicated very high amounts of antimony and tungsten so a request was made for reassay of the same materials. A new certificate was issued and the high assays had become low ones--copies of both certificates are included in the reporting materials.

The multi-element soil anomaly located east of the Wisconsin C.G. in 1997 was extended to the N-E by about 300 m. in an area without outcrop. An angular piece of Irene volcanic schist with small quartz stringers was anomalous in copper and manganese (see R99-23).

R99-10 to R99-14 are a set of rock samples taken in altered granodiorite in new claims DI 1 and DI 4. They are strongly leached and often display remnant base metal boxworks. All of these samples were anomalous in base metals and often in gold-silver.

R99-16 on new claim DI 5 shows good metal values in clay mineral alteration of Irene volcanic rock. R99-17 & 18 in nearby altered granodiorite have much lower values.

Provincial Geologist Paul Wilton spent a day on the property with me and gave valuable advice regarding alteration, etc.

### ANTLER CREEK

In 1997 some PAP assays were taken on small quartz stringers near Antler Creek and some modest precious metal results were obtained. A more thorough search of the area was carried out this year and although some "promising" geologic conditions were found assays results were disappointing.

Two maps are provided of the area prospected. Although Monk(?) schists are shown on both flanks of the Irene this has as much conviction as the question mark suggests and it is the unit on the east which bears the most resemblance. The complex in the middle of Detail Map A-2 may be altered Irene but looks more like acid tuff layered with several bands of limestone. It is strongly pyritic and gossanous and prior to the receipt of assay results led to wishful thinking--the geologic setting was benign.

### PRIEST RIVER-BOUNDARY LAKE

A number of years ago the writer had attempted to locate the site of the old lapsed Crown Grants located by Clubine north of Priest River and on the N-W corner of Map B-2. At that time the site was missed but was found this season and the old trail brushed out. This show has reduced to only one good exposure but it is 15m. wide. It is a quartz vein stockwork in a carbonate zone within Irene volcanics. The zone appears to be traceable by moderate copper values in soil but the precious metals content was weak.

Considerable effort was put into trying to locate the old Skylark C.G. shaft just east of Priest River and not far from the Idaho border. The workings were not found probably due to the dense second growth but a large quartz carbonate zone was located and this is almost certainly the historic host to the silver-tetrahedrite mineralization at the shaft. The supposed extension of this was found north in the flats and close to the road there both by mapping and by soil sampling. SB99-39 is the most significant assay and it was taken in reddish soil near an outcrop of quartz-carbonate stockwork a few hundred feet west of a quartz stringer stockwork in quartzite.

Other areas examined within this project gave negative soil results. It is notable that considerable breccia and vein quartz occurs near SB99-28 & 29.

Ron Granger  
29 Nov.1999



IV 50' q-cb  
zone  
py, cpy

See  
Map  
B-2  
SB99-1  
SB99-14

volcanic  
& barite  
00

PAP 1999 Boundary Lake	
Prospects and Sampling (See details Map B-2) 82F-2	
By: Ron Granger	Scale: 1:50,000
Date: Nov. 99	Map B-1

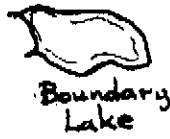
117°00'

- ▲ rock sample
- soil sample

q-cb q-bx  
see  
B-2

q-cb

q-cb  
see Map  
B-2  
SB99-25  
24  
23  
22  
SB99-21

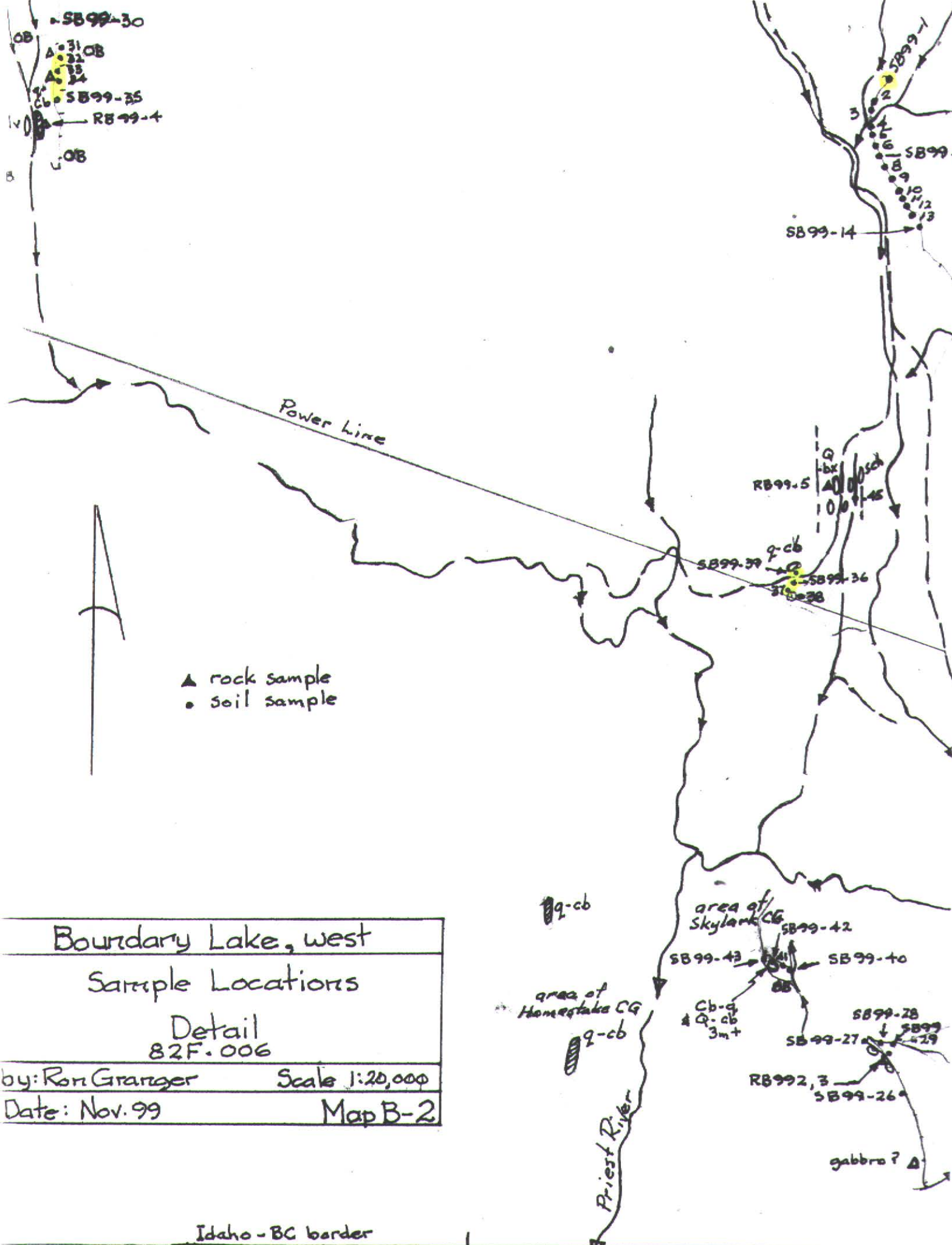


Boundary  
Lake

SB99-17  
SB99-18  
SB99-19

SB99-20  
SB99-15  
SB99-16

B.C.  
Idaho

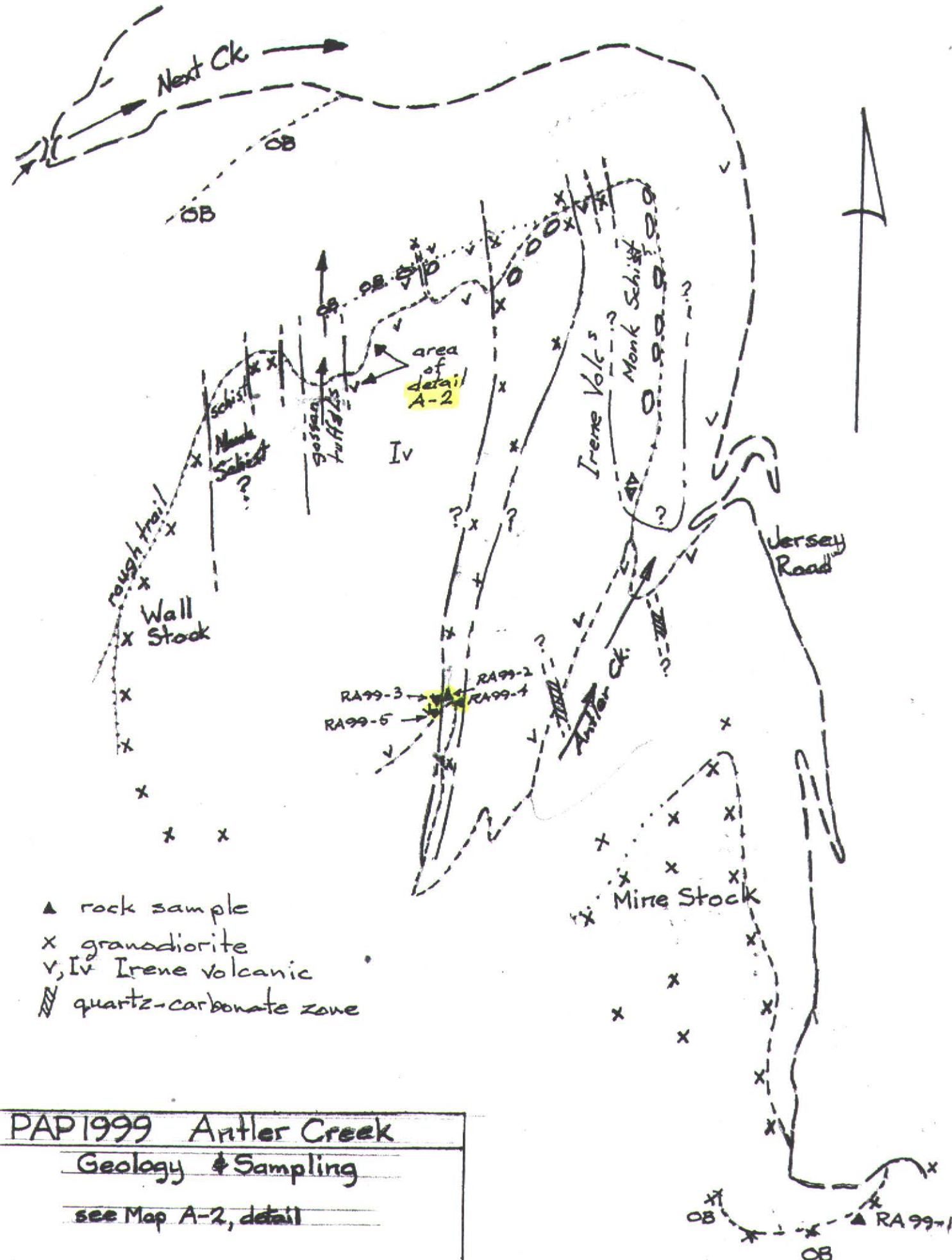


- ▲ rock sample
- soil sample

Boundary Lake, west	
Sample Locations	
Detail	
82F.006	
by: Ron Granger	Scale 1:20,000
Date: Nov. 99	Map B-2

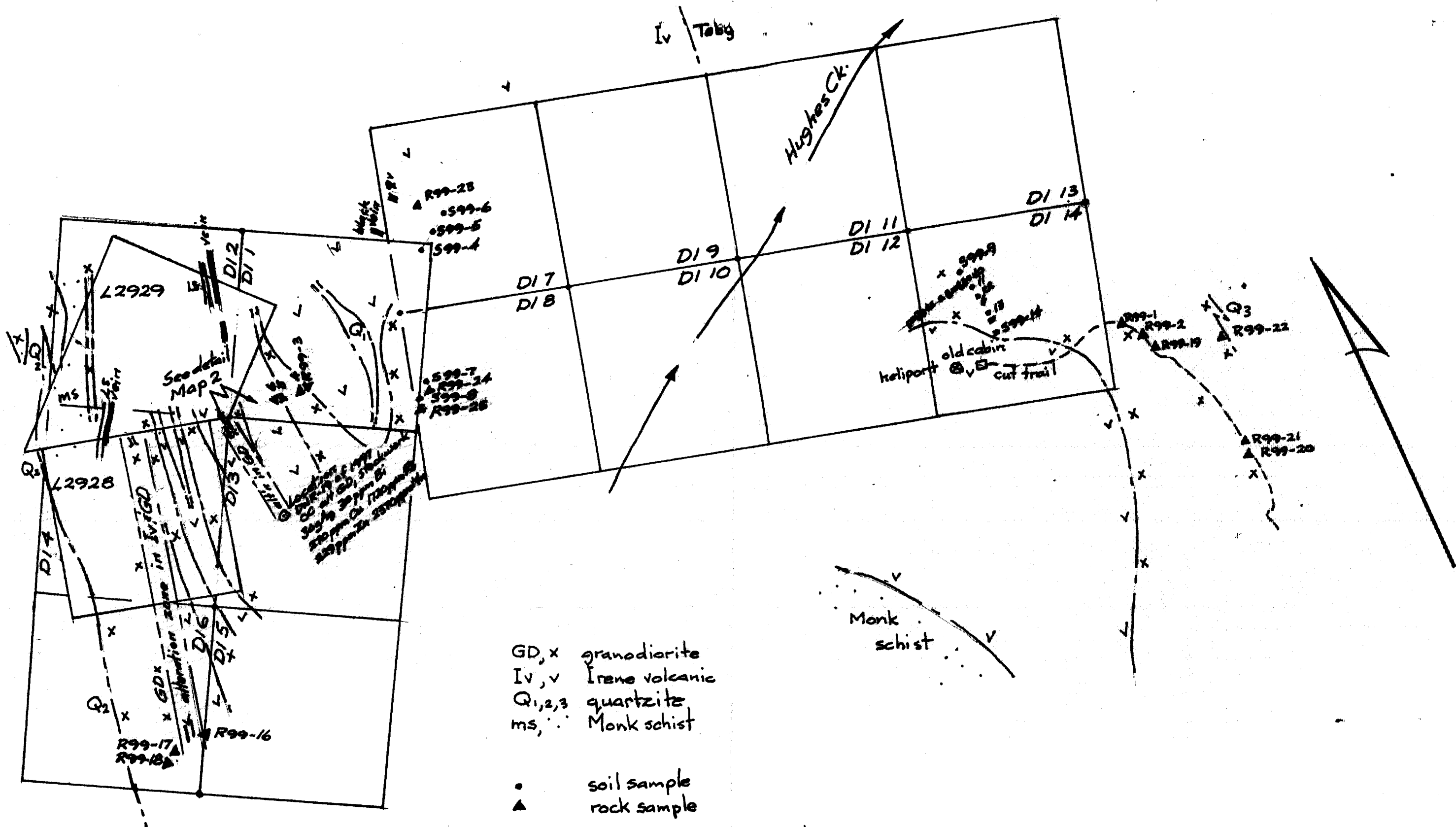
Idaho - BC border



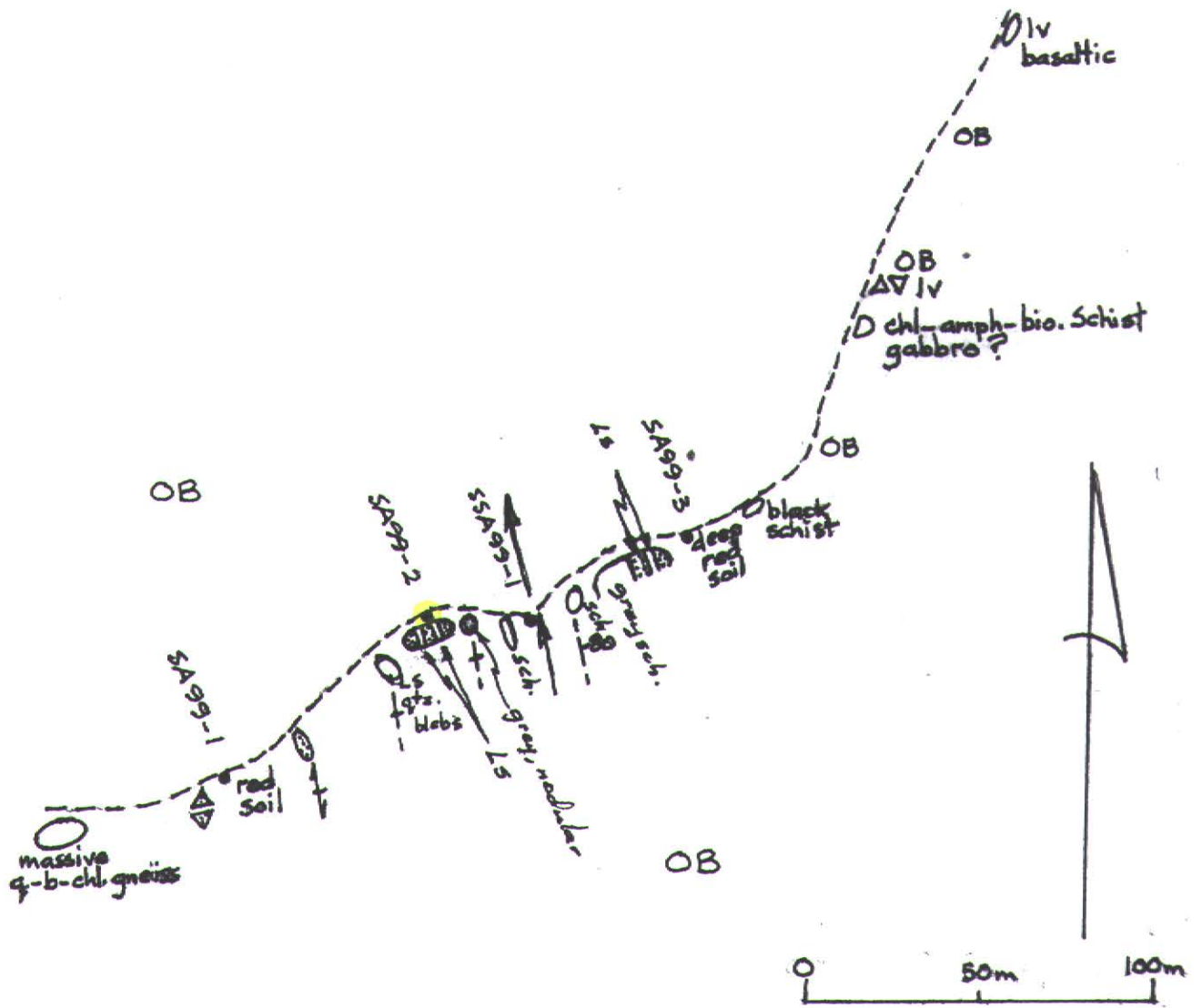


- ▲ rock sample
- x granodiorite
- v, iv Irene volcanic
- ▨ quartz-carbonate zone

PAP1999 Antler Creek	
Geology & Sampling	
see Map A-2, detail	
By: Ron Granger	Scale: 1:20,000
Date: Oct. 99	Map A-1



PAP1999 DI Claim Group  
 Rock & Soil Sample Locations  
 ~ see also Detail Map 2 ~  
 82F-2  
 By: Ron Granger Scale 1:10,000  
 Date: Nov. 99 Map 1

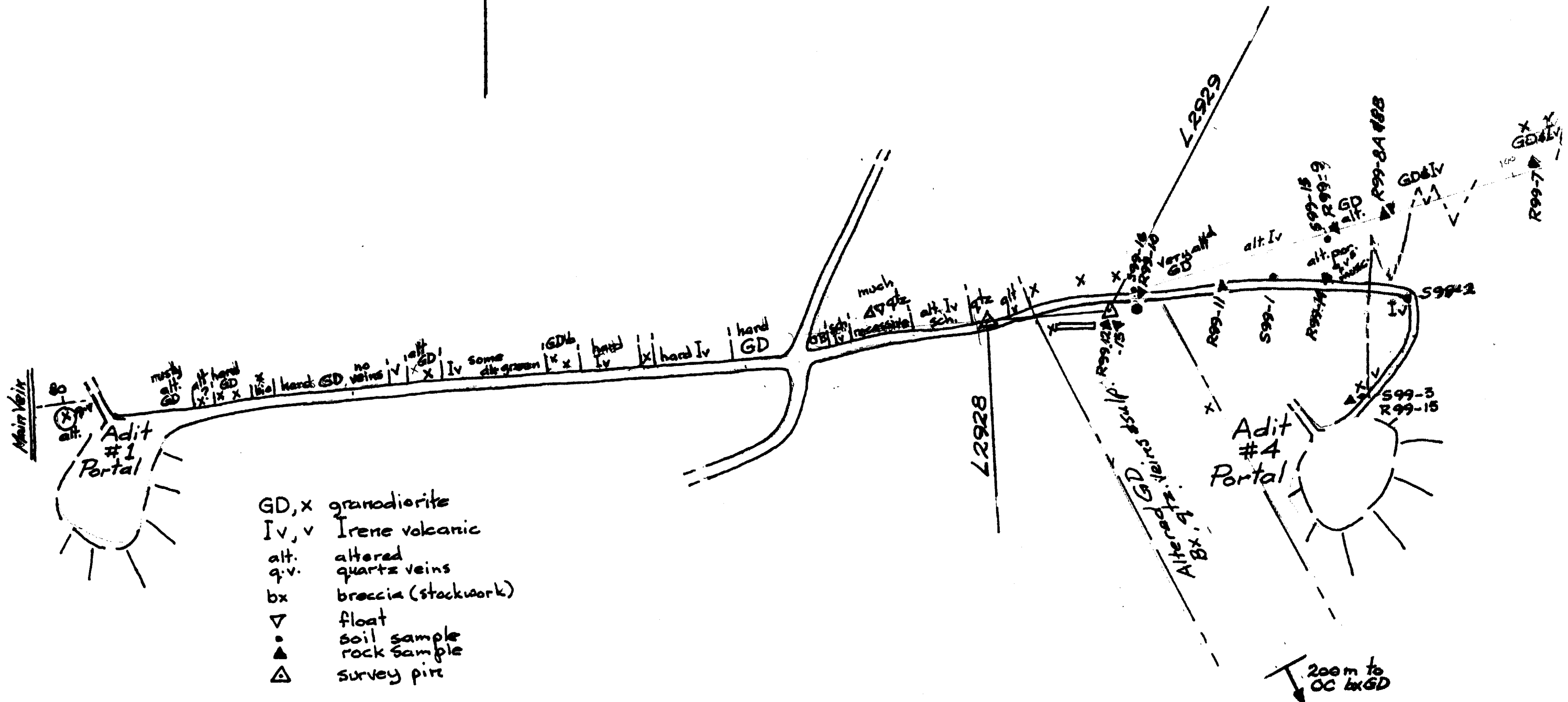


- O - outcrop
- Δ - angular float
- Ls limestone
- lv Irene volcanic
- ☉ gossanous

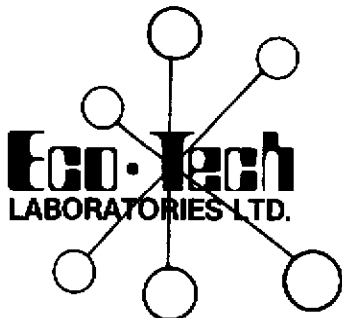
- SA99-1 soil sample
- SSA99-1 silt sample

Antler Creek, north	
Geology & Sampling	
Detail	
by: Ron Granger	Scale 1:2,000
date: Oct. 99	Map A-2

PAP 1999 DI Claim Group	
Sampling & Geology Detail Map	
By: Ren Granger	Scale 1:1000
Date: Nov. 1999	Map 2



- GD, x granodiorite
- Iv, v Irene volcanic
- alt. altered
- q.v. quartz veins
- bx breccia (stackwork)
- ▽ float
- soil sample
- ▲ rock sample
- △ survey pit



**ASSAYING  
GEOCHEMISTRY  
ANALYTICAL CHEMISTRY  
ENVIRONMENTAL TESTING**

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4  
Phone (250) 573-5700 Fax (250) 573-4557  
email: ecotech@mail.wkpowerlink.com

**CERTIFICATE OF ASSAY AK 99-411**

**RON GRANGER**  
619 20TH AVE. S  
CRESTON, BC  
V0B 1G5

2-Sep-99

**ATTENTION: RON GRANGER**

*No. of samples received: 7*  
*Sample type: Rock*  
*PROJECT #: 99-A*  
*SHIPMENT #: 2*  
*Samples submitted by: R. Granger*

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)	As (%)	Pb (%)
2	R99-13	2.41	0.070	386.0	11.26	8.38	19.35

**QC DATA:**

**Repeat:**

2	R99-13	2.82	0.082	-	-	-	-
---	--------	------	-------	---	---	---	---

**Standard:**

STD-M		1.35	0.039	-	-	-	-
Mpla		-	-	70.0	2.04	0.85	4.30

*per*   
**ECO-TECH LABORATORIES LTD.**  
Frank J. Pezzotti, A.Sc.T.  
B.C. Certified Assayer



**ASSAYING  
GEOCHEMISTRY  
ANALYTICAL CHEMISTRY  
ENVIRONMENTAL TESTING**

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4  
Phone (250) 573-5700 Fax (250) 573-4557  
email: ecotech@mail.wkpowerlink.com

## **CERTIFICATE OF ASSAY AK 99-325**

**RON GRANGER**  
619 20TH AVE. S.  
CRESTON, BC  
V0B 1G5

19-Aug-99

**ATTENTION: RON GRANGER**

*No. of samples received: 12*

*Sample type: Rock*

*PROJECT #: 99-A,B*

*SHIPMENT #: 1*

*Samples submitted by: R. Granger*

<b>ET #.</b>	<b>Tag #</b>	<b>Ag (g/t)</b>	<b>Ag (oz/t)</b>
8	R99-8A	48.4	1.41

XLS/99

  
**ECO-TECH LABORATORIES LTD.**

Frank J. Pezzotti, A.Sc.T.  
B.C. Certified Assayer

16-Aug-99

ECO-TECH LABORATORIES LTD.  
10041 East Trans Canada Highway  
KAMLOOPS, B.C.  
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 99-326

RON GRANGER  
619 20TH AVE. S  
CRESTON, BC  
V0B 1G5

Phone: 604-573-5700  
Fax : 604-573-4557

ATTENTION: RON GRANGER

No. of samples received: 14  
Sample type: Soil  
PROJECT #: 99-A-B  
SHIPMENT #: 1  
Samples submitted by: R. Granger

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	SB 99-1	<5	1.4	1.88	<5	105	5	0.08	<1	14	19	31	3.49	<10	0.36	393	1	<0.01	18	470	34	<5	<20	12	0.07	<10	34	<10	<1	42
2	SB 99-2	<5	<0.2	1.81	20	100	10	0.03	<1	42	48	108	8.75	20	0.96	797	5	<0.01	65	1300	76	<5	<20	<1	0.05	<10	38	<10	<1	105
3	SB 99-3	<5	<0.2	2.29	5	90	10	0.06	<1	27	30	51	4.62	10	0.64	981	2	<0.01	39	860	46	<5	<20	<1	0.06	<10	38	<10	3	89
4	SB 99-4	<5	<0.2	2.46	<5	95	10	0.03	<1	27	25	45	5.37	10	0.60	733	3	<0.01	53	940	46	<5	<20	<1	0.07	<10	39	<10	<1	142
5	SB 99-5	<5	0.2	3.94	<5	75	10	0.05	<1	20	11	36	3.22	<10	0.21	515	<1	0.01	21	880	56	<5	<20	2	0.14	<10	34	<10	18	77
6	SB 99-6	<5	0.2	1.91	<5	70	10	0.05	1	19	11	44	5.98	<10	0.32	382	3	<0.01	39	510	70	<5	<20	1	0.06	<10	25	<10	<1	77
7	SB 99-7	<5	<0.2	3.11	<5	70	10	0.05	<1	23	22	58	4.88	10	0.52	335	4	<0.01	62	2360	56	<5	<20	3	0.04	<10	32	<10	<1	108
8	SB 99-8	<5	<0.2	2.54	<5	75	<5	0.03	<1	19	18	35	3.67	10	0.40	513	2	<0.01	29	740	44	<5	<20	2	0.07	<10	34	<10	11	60
9	SB 99-9	<5	<0.2	2.81	5	80	5	0.02	<1	14	18	45	4.24	<10	0.37	185	1	<0.01	25	830	52	<5	<20	<1	0.07	<10	34	<10	<1	67
10	SB 99-10	<5	<0.2	1.91	<5	70	15	0.04	<1	8	17	40	5.86	<10	0.29	162	5	<0.01	8	920	56	<5	<20	<1	0.03	<10	28	<10	<1	46
11	SB 99-11	<5	<0.2	2.12	<5	110	5	0.21	<1	14	16	28	2.80	<10	0.26	579	<1	<0.01	16	740	42	<5	<20	10	0.09	<10	35	<10	5	56
12	SB 99-12	<5	<0.2	2.72	<5	305	5	0.19	<1	23	67	34	4.34	10	1.10	730	<1	0.01	26	1090	44	<5	<20	10	0.16	<10	70	<10	15	87
13	SB 99-13	<5	<0.2	2.91	<5	115	10	0.04	<1	26	37	51	3.89	10	0.54	550	<1	<0.01	31	910	52	<5	<20	<1	0.11	<10	42	<10	41	73
14	SB 99-14	<5	<0.2	2.12	<5	105	10	0.10	<1	23	40	51	4.61	<10	0.80	483	1	<0.01	42	830	44	<5	<20	5	0.06	<10	47	<10	<1	87

QC DATA:

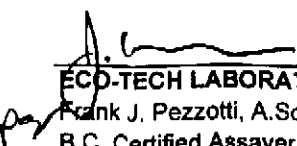
Repeat:

1	SB 99-1	<5	1.8	1.98	<5	105	5	0.08	<1	15	20	31	3.67	<10	0.37	413	<1	<0.01	19	520	36	<5	<20	10	0.07	<10	35	<10	<1	44
10	SB 99-10	-	<0.2	1.96	<5	75	5	0.04	<1	8	17	39	5.58	<10	0.29	167	5	<0.01	8	920	60	<5	<20	1	0.03	<10	28	<10	<1	46

Standard:

GEO'99		125	0.8	1.74	65	155	<5	1.82	<1	20	64	85	3.82	<10	0.96	648	<1	0.02	22	700	24	10	<20	52	0.09	<10	78	<10	8	67
--------	--	-----	-----	------	----	-----	----	------	----	----	----	----	------	-----	------	-----	----	------	----	-----	----	----	-----	----	------	-----	----	-----	---	----

df/326  
XLS/99

  
ECO-TECH LABORATORIES LTD.  
Frank J. Pezzotti, A.Sc.T.  
B.C. Certified Assayer

17-Aug-99

ECO-TECH LABORATORIES LTD.  
10041 East Trans Canada Highway  
KAMLOOPS, B.C.  
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 99-325

RON GRANGER  
619 20TH AVE. S.  
CRESTON, BC  
V0B 1G5

Phone: 250-573-5700  
Fax : 250-573-4557

ATTENTION: RON GRANGER

No. of samples received: 12  
Sample type: Rock  
PROJECT #: 99-A,B  
SHIPMENT #: 1  
Samples submitted by: R. Granger

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	R99-1	5	<0.2	1.70	<5	130	35	0.55	<1	8	146	25	3.20	<10	0.79	412	<1	0.05	8	1090	44	<5	<20	42	0.14	<10	26	<10	14	60
2	R99-2	5	<0.2	1.68	<5	55	10	0.52	<1	8	89	21	3.06	<10	0.85	508	1	0.03	7	1160	18	<5	<20	30	0.09	<10	24	<10	13	53
3	R99-3	<5	<0.2	0.49	5	70	<5	0.14	<1	5	113	16	1.11	20	0.06	669	1	0.02	6	820	18	<5	<20	5	<0.01	<10	5	<10	12	35
4	R99-4	<5	0.6	0.55	25	225	<5	0.15	1	4	118	59	1.88	30	0.02	1952	4	0.02	7	1010	24	<5	<20	9	<0.01	<10	5	<10	30	76
5	R99-5	<5	0.4	0.28	<5	145	<5	0.13	1	4	64	2	1.49	40	0.02	1755	2	<0.01	6	740	4	<5	<20	5	<0.01	<10	3	<10	21	40
6	R99-6	<5	1.4	0.38	<5	55	<5	0.07	<1	2	101	4	0.88	20	0.12	528	3	0.02	6	410	10	<5	<20	7	<0.01	<10	3	<10	9	131
7	R99-7	<5	0.4	0.46	5	55	<5	0.11	1	6	137	15	1.51	20	0.21	697	<1	0.01	9	440	20	<5	<20	1	0.02	<10	14	<10	3	282
8	R99-8A	5	>30	0.20	10	45	<5	<0.01	8	9	141	212	6.15	<10	<0.01	527	17	<0.01	14	890	1208	<5	<20	20	<0.01	<10	4	<10	<1	1206
9	R99-8B	<5	1.4	0.54	30	65	<5	0.05	1	4	81	29	2.01	10	0.17	799	3	0.02	13	410	38	<5	<20	6	<0.01	<10	7	<10	8	80
10	R99-9	5	0.8	0.36	55	65	<5	0.03	2	2	91	26	1.76	10	0.03	839	4	0.01	10	390	68	<5	<20	12	<0.01	<10	5	<10	<1	128
11	R99-10	15	1.8	0.35	1830	100	<5	0.02	17	7	115	417	4.96	10	<0.01	2017	10	<0.01	14	410	520	<5	<20	10	<0.01	<10	8	<10	<1	1066
12	R99-11	30	2.4	0.11	1830	60	<5	0.01	13	6	189	155	3.54	<10	<0.01	1503	8	<0.01	14	130	624	<5	<20	27	<0.01	<10	4	<10	<1	476

QC DATA:

Resplit:

1	R99-1	<5	<0.2	1.69	<5	115	35	0.55	<1	8	138	24	3.21	<10	0.77	410	<1	0.05	9	1100	48	<5	<20	36	0.15	<10	26	<10	15	78
---	-------	----	------	------	----	-----	----	------	----	---	-----	----	------	-----	------	-----	----	------	---	------	----	----	-----	----	------	-----	----	-----	----	----


Repeat:

1	R99-1	<5	<0.2	1.70	<5	125	30	0.55	<1	8	147	24	3.22	<10	0.78	411	<1	0.05	9	1100	46	<5	<20	36	0.15	<10	26	<10	14	63
10	R99-9	-	1.0	0.35	60	65	<5	0.03	1	2	91	26	1.73	10	0.03	824	4	0.01	10	390	72	<5	<20	12	<0.01	<10	5	<10	<1	129

Standard:

GEO'99		125	1.0	1.77	60	145	10	1.76	<1	18	64	83	3.76	<10	0.94	682	<1	0.02	25	690	20	10	<20	58	0.08	<10	77	<10	7	64
--------	--	-----	-----	------	----	-----	----	------	----	----	----	----	------	-----	------	-----	----	------	----	-----	----	----	-----	----	------	-----	----	-----	---	----

df/348  
XLS/99

  
per **ECO-TECH LABORATORIES LTD.**  
Frank J. Pezzotti, A.Sc.T.  
B.C. Certified Assayer



ECO-TECH LABORATORIES LTD.  
10041 East Trans Canada Highway  
KAMLOOPS, B.C.  
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 99-413

RON GRANGER  
619 20TH AVE. S  
CRESTON, BC  
V0B 1G5

Phone: 250-573-5700  
Fax : 250-573-4557

ATTENTION: RON GRANGER

No. of samples received: 9  
Sample type: Soil  
PROJECT #: 99-A  
SHIPMENT #: 2  
Samples submitted by: R. Granger

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	S99-1	20	3.0	2.56	615	125	5	0.07	3	22	16	96	4.14	10	0.30	1453	3	0.01	42	860	166	<5	<20	11	0.08	<10	34	<10	24	669
2	S99-2	15	1.0	2.48	360	90	<5	0.08	2	33	22	174	4.47	10	0.61	976	2	<0.01	50	1180	180	<5	<20	9	0.08	<10	51	<10	17	734
3	S99-3	15	0.8	1.87	155	85	<5	0.31	3	13	15	88	2.95	10	0.75	566	<1	<0.01	43	1620	70	<5	<20	21	0.05	<10	36	<10	21	2029
4	SB99-15	<5	<0.2	0.90	<5	55	<5	0.05	<1	6	8	10	1.26	10	0.27	99	<1	<0.01	7	430	8	<5	<20	<1	0.06	<10	12	<10	14	34
5	SB99-16	<5	<0.2	0.70	<5	50	10	0.03	<1	6	10	8	2.33	<10	0.09	67	<1	<0.01	6	530	16	<5	<20	<1	0.14	<10	49	<10	10	31
6	SB99-17	5	<0.2	1.57	<5	55	10	0.03	<1	13	17	52	2.69	20	1.08	244	<1	<0.01	16	210	12	10	<20	<1	0.07	<10	68	<10	27	38
7	SB99-18	5	<0.2	1.37	<5	65	5	0.03	<1	7	12	20	1.98	20	0.38	103	<1	<0.01	15	380	16	<5	<20	<1	0.05	<10	18	<10	28	39
8	SB99-19	10	<0.2	1.31	<5	80	<5	0.01	<1	8	14	23	2.18	30	0.53	124	<1	<0.01	13	240	10	<5	<20	2	0.05	<10	16	<10	27	37
9	SB99-20	5	<0.2	2.09	5	90	15	0.04	<1	9	10	16	2.23	10	0.24	182	<1	<0.01	13	490	16	<5	<20	<1	0.09	<10	27	<10	16	44

QC DATA:


Repeat:

1	S99-1	-	3.0	2.55	600	115	15	0.06	4	22	16	96	4.16	10	0.30	1468	2	<0.01	43	880	174	<5	<20	8	0.08	<10	34	<10	26	669
4	SB99-15	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Standard:

GEO'99		115	1.0	1.84	65	150	5	1.84	<1	19	64	84	3.87	<10	0.95	644	<1	0.02	22	700	20	<5	<20	55	0.09	<10	70	<10	8	72
--------	--	-----	-----	------	----	-----	---	------	----	----	----	----	------	-----	------	-----	----	------	----	-----	----	----	-----	----	------	-----	----	-----	---	----

df/387  
XLS/99

  
ECO-TECH LABORATORIES LTD.  
Frank J. Pezzotti, A.Sc.T.  
B.C. Certified Assayer

31-Aug-99

ECO-TECH LABORATORIES LTD.  
10041 East Trans Canada Highway  
KAMLOOPS, B.C.  
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 99-411

RON GRANGER  
619 20TH AVE. S  
CRESTON, BC  
V0B 1G5

Phone: 250-573-5700  
Fax : 250-573-4557

ATTENTION: RON GRANGER

No. of samples received: 7  
Sample type: Rock  
PROJECT #: 99-A  
SHIPMENT #: 2  
Samples submitted by: R. Granger

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	R99-12	20	4.0	0.25	1110	135	<5	0.02	9	3	85	61	2.46	20	<0.01	3597	4	<0.01	3	200	320	<5	<20	29	<0.01	<10	4	<10	1	216
2	R99-13	>1000	>30	0.12	>10000	195	<5	0.03	666	17	61	1917	>10	40	<0.01	>10000	31	<0.01	2	3950	>10000	770	<20	29	0.01	<10	6	<10	<1	1453
3	R99-14	5	4.8	0.43	365	75	5	0.05	4	4	101	13	1.82	10	0.09	822	6	0.02	8	370	734	<5	<20	6	<0.01	<10	5	20	8	245
4	R99-15	5	1.2	0.27	130	65	<5	<0.01	<1	3	147	12	1.26	20	<0.01	523	5	0.01	4	170	152	<5	<20	4	<0.01	<10	2	<10	2	115
5	R99-16	575	17.0	0.72	75	45	<5	0.07	4	22	154	601	3.65	<10	0.25	881	6	0.02	25	310	708	<5	<20	4	<0.01	<10	32	<10	<1	1834
6	R99-17	5	<0.2	1.76	50	50	5	0.05	<1	7	79	35	4.09	20	1.18	574	4	0.01	9	380	52	<5	<20	1	0.01	<10	20	<10	<1	76
7	R99-18	5	<0.2	1.49	50	60	5	0.13	<1	6	100	25	3.04	20	0.92	286	3	0.01	10	330	44	10	<20	11	0.04	<10	23	<10	11	52

QC DATA:

Resplit:

1	R99-12	20	4.2	0.26	1145	140	<5	0.02	11	3	90	62	2.59	30	<0.01	3650	5	<0.01	4	220	334	<5	<20	28	<0.01	<10	4	<10	3	224
---	--------	----	-----	------	------	-----	----	------	----	---	----	----	------	----	-------	------	---	-------	---	-----	-----	----	-----	----	-------	-----	---	-----	---	-----

Repeat:

1	R99-12	20	4.2	0.27	1145	130	<5	0.02	10	3	90	62	2.58	30	<0.01	3717	5	<0.01	3	230	332	<5	<20	26	<0.01	<10	2	<10	4	218
---	--------	----	-----	------	------	-----	----	------	----	---	----	----	------	----	-------	------	---	-------	---	-----	-----	----	-----	----	-------	-----	---	-----	---	-----

Standard:

GEO'99		120	1.2	1.69	70	170	5	1.84	<1	18	66	88	3.84	10	0.98	687	<1	0.02	24	690	22	10	<20	59	0.10	<10	73	<10	7	73
--------	--	-----	-----	------	----	-----	---	------	----	----	----	----	------	----	------	-----	----	------	----	-----	----	----	-----	----	------	-----	----	-----	---	----

8-Sep-99

ECO-TECH LABORATORIES LTD.  
10041 East Trans Canada Highway  
KAMLOOPS, B.C.  
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 99-435

RON GRANGER  
619, 20TH AVE S.  
CRESTON, BC  
V0B 1G5

Phone: 604-573-5700  
Fax : 604-573-4557

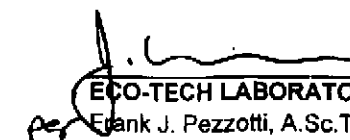
ATTENTION: RON GRANGER

No. of samples received: 5  
Sample type: Rock  
PROJECT #: 99-A  
SHIPMENT #: 3  
Samples submitted by: R. Granger

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn	
1	R99-19	5	<0.2	1.71	<5	55	10	0.60	<1	9	88	11	2.86	10	0.83	493	2	0.03	8	1020	10	<5	<20	46	0.11	<10	25	<10	27	81	
2	R99-20	15	0.2	1.28	<5	60	5	0.22	<1	8	108	64	2.98	30	0.43	382	6	0.02	8	1020	14	<5	<20	7	<0.01	<10	11	<10	4	42	
3	R99-21	5	<0.2	2.16	<5	190	10	0.58	<1	10	106	13	3.31	10	0.84	498	<1	0.07	10	1050	18	5	<20	44	0.12	<10	30	<10	20	74	
4	R99-22	5	<0.2	2.21	<5	55	15	0.74	<1	11	75	70	3.87	20	1.25	391	<1	0.03	6	1370	16	15	<20	51	0.16	<10	44	<10	21	53	
5	R99-23	10	<0.2	1.33	<5	90	<5	3.27	<1	42	112	412	6.70	20	0.29	2843	5	0.02	25	810	4	<5	<20	15	0.09	<10	259	<10	<1	30	
<b>QC DATA:</b>																															
<i>Resplit:</i>																															
1	R99-19	<5	<0.2	1.76	<5	45	5	0.62	<1	9	94	12	2.93	10	0.84	506	2	0.03	8	1040	12	5	<20	45	0.11	<10	26	<10	24	83	
<i>Repeat:</i>																															
1	R99-19	<5	<0.2	1.73	<5	45	10	0.62	<1	9	89	12	2.91	10	0.83	511	2	0.03	9	1040	8	<5	<20	43	0.11	<10	27	<10	23	81	
<i>Standard:</i>																															
GEO'99		115	1.0	1.77	65	170	<5	1.86	<1	18	61	90	3.84	10	0.98	675	<1	0.02	24	680	18	5	<20	65	0.10	<10	77	<10	7	71	

df/430  
XLS/99

  
ECO-TECH LABORATORIES LTD.  
Frank J. Pezzotti, A.Sc.T.  
B.C. Certified Assayer

10-Sep-99

ECO-TECH LABORATORIES LTD.  
10041 East Trans Canada Highway  
KAMLOOPS, B.C.  
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 99-436

RON GRANGER  
619, 20TH AVE S.  
CRESTON, BC  
V0B 1G5

Phone: 604-573-5700  
Fax : 604-573-4557

ATTENTION: RON GRANGER

No. of samples received: 3  
Sample type: Soil  
PROJECT #: 99-A  
SHIPMENT #: 3  
Samples submitted by: R. Granger

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	S99-4	10	1.0	1.72	110	135	15	0.10	2	12	20	29	2.84	20	0.46	1026	1	<0.01	20	720	92	<5	<20	18	0.04	<10	36	<10	6	217
2	S99-5	55	1.8	2.56	95	115	10	0.07	4	10	11	24	1.94	<10	0.16	1678	<1	0.01	16	1330	110	<5	<20	9	0.11	<10	29	<10	18	255
3	S99-6	15	0.4	1.75	135	100	10	0.12	1	16	29	55	3.21	20	0.66	795	<1	<0.01	28	530	138	<5	<20	12	0.05	<10	44	<10	5	249

QC DATA:

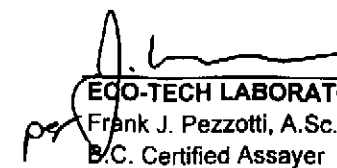
Repeat:

1	S99-4	10	0.8	1.68	110	125	10	0.09	2	11	19	28	2.77	20	0.45	1003	1	<0.01	19	710	84	<5	<20	15	0.03	<10	35	<10	4	213
---	-------	----	-----	------	-----	-----	----	------	---	----	----	----	------	----	------	------	---	-------	----	-----	----	----	-----	----	------	-----	----	-----	---	-----

Standard:

GEO'99		125	1.2	1.76	65	165	<5	1.84	<1	19	54	87	3.86	<10	0.98	651	<1	0.02	24	660	22	5	<20	55	0.09	<10	74	<10	8	69
--------	--	-----	-----	------	----	-----	----	------	----	----	----	----	------	-----	------	-----	----	------	----	-----	----	---	-----	----	------	-----	----	-----	---	----

df/432  
XLS/99

  
**ECO-TECH LABORATORIES LTD.**  
 Frank J. Pezzotti, A.Sc.T.  
 B.C. Certified Assayer

ECO-TECH LABORATORIES LTD.  
 10041 East Trans Canada Highway  
 KAMLOOPS, B.C.  
 V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 99-489

RON GRANGER  
 619, 20TH AVE S.  
 CRESTON, BC  
 V0B 1G5

Phone: 604-573-5700  
 Fax : 604-573-4557

ATTENTION: RON GRANGER

No. of samples received: 5  
 Sample type: Rock  
 PROJECT #: 99A,B  
 SHIPMENT #: 4  
 Samples submitted by: R. Granger

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	R99-24	10	0.6	0.08	5	20	<5	0.02	<1	2	160	6	0.46	<10	<0.01	393	4	0.01	6	90	22	<5	<20	8	<0.01	<10	1	<10	<1	48
2	R99-25	5	0.4	0.35	5	140	<5	0.19	<1	3	101	5	1.41	10	0.03	720	6	0.02	5	650	6	<5	<20	9	<0.01	<10	3	<10	7	16
3	RB99-1	5	1.2	0.12	<5	10	25	0.08	<1	3	275	10	1.20	<10	0.08	60	14	<0.01	8	440	44	<5	<20	<1	<0.01	<10	2	<10	<1	2
4	RB99-2	10	<0.2	0.80	15	110	5	0.16	<1	6	112	25	1.46	<10	0.56	86	4	0.05	6	610	8	<5	<20	<1	0.04	<10	6	<10	6	6
5	RB99-3	5	0.4	1.78	<5	55	30	<0.01	1	13	113	68	>10	<10	0.67	298	15	<0.01	14	340	2	<5	<20	<1	<0.01	10	15	<10	<1	95

QC DATA:

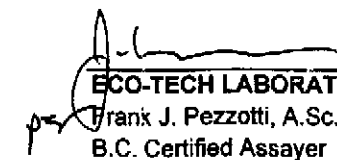
Resplit:

1	R99-24	10	0.2	0.09	<5	10	<5	0.01	<1	2	173	6	0.50	<10	0.01	384	6	0.01	7	80	18	<5	<20	7	<0.01	<10	1	<10	<1	47
---	--------	----	-----	------	----	----	----	------	----	---	-----	---	------	-----	------	-----	---	------	---	----	----	----	-----	---	-------	-----	---	-----	----	----

Standard:

GEO'99		120	1.2	1.73	65	145	5	1.74	<1	20	63	82	3.87	<10	0.96	677	<1	0.02	24	690	18	5	<20	58	0.08	<10	76	<10	7	72
--------	--	-----	-----	------	----	-----	---	------	----	----	----	----	------	-----	------	-----	----	------	----	-----	----	---	-----	----	------	-----	----	-----	---	----

df/488  
 XLS/99

  
 ECO-TECH LABORATORIES LTD.  
 Frank J. Pezzotti, A.Sc.T.  
 B.C. Certified Assayer

ECO-TECH LABORATORIES LTD.  
10041 East Trans Canada Highway  
KAMLOOPS, B.C.  
V2C 6T4

## ICP CERTIFICATE OF ANALYSIS AK 99-490R

RON GRANGER  
619, 20TH AVE S.  
CRESTON, BC  
V0B 1G5

Phone: 604-573-5700  
Fax : 604-573-4557

ATTENTION: RON GRANGER

No. of samples received: 19

Sample type: Soil

PROJECT #: 99A,B

SHIPMENT #: 4

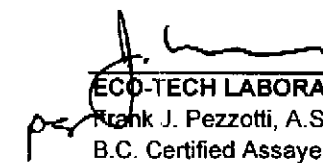
Samples submitted by: R Granger

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	S99-7	<5	0.4	3.17	45	175	15	0.12	<1	11	17	16	2.65	<10	0.24	1168	<1	0.01	16	2000	46	<5	<20	16	0.11	<10	34	<10	11	141
2	S99-8	<5	0.4	1.51	25	235	10	0.15	<1	6	15	11	1.89	20	0.32	1219	1	0.01	15	830	26	<5	<20	28	0.03	<10	22	<10	7	80
3	S99-9	<5	0.4	2.89	15	205	15	0.20	1	11	16	18	3.08	10	0.30	2030	<1	0.02	11	1890	38	<5	<20	19	0.08	<10	43	<10	5	162
4	S99-10	<5	0.2	4.22	25	215	15	0.15	<1	15	19	46	3.23	20	0.39	1539	<1	0.02	19	1690	40	5	<20	11	0.13	<10	48	<10	38	193
5	S99-11	<5	1.0	1.68	<5	235	15	0.23	<1	12	17	15	3.07	10	0.27	6496	<1	0.01	10	1490	30	<5	<20	20	0.08	<10	49	<10	2	121
6	S99-12	<5	5.0	3.73	465	<5	<5	0.12	<1	18	23	30	2.92	<10	0.23	1070	22	<0.01	40	1550	106	<5	100	<1	0.04	<10	89	<10	215	115
7	S99-13	<5	1.0	2.48	15	180	15	0.19	<1	13	18	26	3.19	<10	0.19	5579	<1	0.02	10	3480	40	<5	<20	8	0.12	<10	51	<10	3	146
8	S99-14	<5	7.4	0.99	225	<5	<5	0.06	4	12	8	14	1.28	<10	<0.01	727	6	<0.01	15	640	76	<5	<20	<1	0.06	<10	55	<10	109	37
9	S99-15	<5	4.6	3.59	485	120	20	0.15	7	19	20	74	4.47	10	0.36	2264	2	0.01	50	1690	404	<5	<20	8	0.10	<10	42	<10	15	1009
10	S99-16	30	5.2	2.60	1090	230	<5	0.08	16	13	23	285	4.66	20	0.53	2160	2	0.01	42	700	420	<5	<20	17	0.07	<10	38	<10	37	1189
11	SB99-21	<5	0.4	1.61	10	155	15	0.04	<1	11	15	33	3.49	10	0.39	423	<1	0.01	13	770	26	<5	<20	<1	0.12	<10	47	<10	29	46
12	SB99-22	<5	<0.2	1.83	5	105	10	0.02	<1	12	20	31	3.47	20	0.72	280	<1	<0.01	14	340	20	<5	<20	<1	0.10	<10	40	<10	61	45
13	SB99-23	<5	0.6	3.52	15	255	10	0.47	<1	17	29	54	4.23	20	1.11	1681	<1	0.01	30	1030	24	10	<20	7	0.10	<10	44	<10	79	73
14	SB99-24	<5	0.4	2.33	10	265	10	0.18	<1	17	22	34	3.40	30	0.56	1678	<1	0.01	19	910	28	<5	<20	<1	0.07	<10	42	<10	70	70
15	SB99-25	<5	<0.2	1.97	10	165	15	0.04	<1	15	23	44	3.81	20	0.91	541	<1	<0.01	20	720	20	15	<20	<1	0.09	<10	40	<10	20	41
16	SB99-26	<5	<0.2	2.09	<5	70	15	0.02	<1	14	19	42	4.29	20	0.47	376	2	<0.01	15	690	20	<5	<20	<1	0.09	<10	41	<10	10	55
17	SB99-27	<5	1.0	3.16	<5	100	15	0.08	<1	53	23	117	7.94	20	0.45	1044	9	<0.01	44	1230	40	<5	<20	<1	0.04	<10	30	<10	17	93
18	SB99-28	<5	<0.2	1.97	5	70	20	0.03	<1	11	20	43	5.65	20	0.27	346	4	<0.01	15	700	18	<5	<20	<1	0.07	<10	38	<10	<1	59
19	SB99-29	<5	0.2	1.64	15	90	10	0.04	<1	16	23	35	4.11	20	0.56	507	1	<0.01	18	580	30	<5	<20	<1	0.06	<10	43	<10	11	62

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
<b>QC DATA:</b>																														
<b>Repeat:</b>																														
1	S99-7	<5	0.6	3.16	55	165	15	0.11	<1	11	17	16	2.64	10	0.24	1135	<1	0.01	15	2040	46	<5	<20	11	0.11	<10	33	<10	11	145
10	S99-16	35	5.2	2.68	1090	230	<5	0.08	18	13	24	295	4.81	20	0.54	2230	2	0.01	42	720	438	<5	<20	15	0.07	<10	39	<10	38	1198
<b>Standard:</b>																														
GEO'99		125	1.6	2.00	65	185	15	1.83	2	22	67	82	4.24	<10	1.06	782	<1	0.03	24	720	24	10	<20	65	0.12	<10	85	<10	8	74

df/502  
XLS/99

  
 ECO-TECH LABORATORIES LTD.  
 Frank J. Pezzotti, A.Sc.T.  
 B.C. Certified Assayer

ECO-TECH LABORATORIES LTD.  
10041 East Trans Canada Highway  
KAMLOOPS, B.C.  
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 99-554

RON GRANGER  
619, 20TH AVE., S.  
CRESTON, BC  
V0B 1G5

Phone: 250-573-5700  
Fax : 250-573-4557

ATTENTION: RON GRANGER

No. of samples received: 6  
Sample type: Rock  
PROJECT #: None Given  
SHIPMENT #: None Given  
Samples submitted by: R. Granger

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	RB99-5	<5	<0.2	0.31	<5	35	<5	0.43	<1	5	149	11	1.80	<10	0.31	451	5	<0.01	9	320	4	<5	<20	12	<0.01	<10	4	<10	4	23
2	RA99-1	<5	<0.2	0.60	<5	35	<5	0.16	<1	5	165	5	1.81	<10	0.19	494	5	0.02	6	420	6	<5	<20	8	<0.01	<10	6	<10	5	58
3	RA99-2	<5	<0.2	0.42	<5	35	<5	2.44	<1	12	163	92	1.83	<10	0.34	478	4	0.03	12	340	2	<5	<20	80	0.06	<10	26	<10	10	12
4	RA99-3	<5	<0.2	0.87	<5	40	<5	0.80	<1	31	75	447	3.42	<10	0.61	184	<1	0.04	28	860	6	<5	<20	19	0.22	<10	33	<10	30	32
5	RA99-4	<5	<0.2	2.43	<5	45	<5	7.33	<1	11	19	153	3.31	10	7.30	1011	37	<0.01	9	950	<2	20	<20	66	0.05	<10	22	<10	7	138
6	RA99-5	5	<0.2	0.22	30	45	<5	0.06	<1	8	124	183	4.00	<10	0.05	271	6	0.02	5	170	<2	<5	<20	4	<0.01	<10	2	<10	<1	6

QC DATA:

Resplit:


1	RB99-5	5	<0.2	0.32	<5	35	<5	0.46	<1	5	157	12	1.88	<10	0.32	459	5	<0.01	10	340	2	<5	<20	10	<0.01	<10	5	<10	5	24
---	--------	---	------	------	----	----	----	------	----	---	-----	----	------	-----	------	-----	---	-------	----	-----	---	----	-----	----	-------	-----	---	-----	---	----

Repeat:

1	RB99-5	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
---	--------	----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Standard:

GEO'99	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
--------	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

  
ECO-TECH LABORATORIES LTD.  
Frank J. Pezzotti, A.Sc.T.  
B.C. Certified Assayer



27-Oct-99

**ECO-TECH LABORATORIES LTD.**  
 10041 East Trans Canada Highway  
**KAMLOOPS, B.C.**  
 V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 99-555

**RON GRANGER**  
 619, 20TH AVE S.  
**CRESTON, BC**  
 V0B 1G5

Phone: 604-573-5700  
 Fax : 604-573-4557

**ATTENTION: RON GRANGER**

*No. of samples received: 13*  
*Sample type: Soil*  
*PROJECT #: None Given*  
*SHIPMENT #: None Given*  
*Samples submitted by: R. Granger*

*Values in ppm unless otherwise reported*

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	SB99-30	<5	<0.2	1.99	<5	130	15	0.36	<1	23	39	73	4.14	<10	0.82	1150	2	<0.01	23	790	30	5	<20	15	0.27	<10	6	<10	12	76
2	SB99-31	<5	<0.2	1.93	<5	120	<5	0.76	<1	21	36	84	3.46	<10	0.85	1325	2	<0.01	21	1180	24	5	<20	27	0.06	<10	76	<10	28	72
3	SB99-32	<5	<0.2	3.04	5	115	15	0.35	<1	38	69	197	5.88	<10	1.54	904	3	<0.01	41	970	16	10	<20	11	0.37	<10	61	<10	36	83
4	SB99-33	<5	<0.2	3.00	<5	115	15	0.41	<1	39	72	194	5.68	<10	1.75	848	3	<0.01	48	940	10	15	<20	9	0.40	<10	55	<10	13	75
5	SB99-34	10	<0.2	2.90	<5	105	5	0.52	<1	41	71	212	5.95	<10	1.81	873	4	<0.01	46	890	16	15	<20	11	0.27	<10	112	<10	13	78
6	SB99-35	<5	<0.2	2.94	<5	110	15	0.56	<1	40	68	143	6.00	<10	1.68	772	3	<0.01	41	420	14	10	<20	14	0.32	<10	81	<10	25	72
7	SB99-36	<5	0.2	1.85	<5	145	5	0.12	<1	14	11	29	3.93	<10	0.25	1482	4	<0.01	12	510	254	<5	<20	<1	0.07	<10	12	<10	31	296
8	SB99-37	<5	0.4	1.97	<5	120	5	0.05	<1	12	9	20	3.60	<10	0.19	1829	3	<0.01	8	660	134	<5	<20	<1	0.09	<10	3	<10	29	279
9	SB99-38	<5	0.2	3.05	10	80	5	0.06	<1	9	8	19	2.48	<10	0.15	1113	2	0.01	7	1130	28	<5	<20	<1	0.15	<10	<1	<10	11	57
10	SB99-39	<5	1.0	0.97	15	580	<5	0.43	<1	51	8	795	>10	<10	0.10	5744	9	<0.01	40	940	70	<5	<20	7	0.03	<10	27	<10	15	180
11	SA99-1	<5	<0.2	2.91	10	80	15	0.18	<1	18	21	38	3.03	10	1.02	450	2	<0.01	31	970	18	5	<20	1	0.08	<10	21	<10	19	59
12	SA99-2	5	<0.2	1.55	15	85	10	0.15	<1	41	11	137	8.19	40	1.58	1778	8	<0.01	45	1450	30	5	<20	8	0.11	<10	<1	<10	190	91
13	SA99-3	<5	<0.2	2.92	<5	195	20	0.28	<1	43	36	85	5.61	<10	1.49	632	4	0.01	50	1160	14	10	<20	6	0.23	<10	83	<10	10	74

**QC DATA:**


**Repeat:**

1	SB99-30	-	<0.2	2.10	5	130	20	0.38	<1	24	40	72	4.23	<10	0.84	1170	3	<0.01	23	880	34	10	<20	10	0.27	<10	10	<10	15	80
3	SB99-32	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	SB99-39	-	1.0	0.98	20	570	<5	0.43	<1	51	8	794	>10	<10	0.11	5743	9	<0.01	41	950	68	<5	<20	7	0.03	<10	26	<10	15	180

**Standard:**

GEO'99	-	1.0	1.74	60	145	5	1.78	<1	20	64	81	3.87	<10	0.94	690	2	0.02	22	670	18	10	<20	56	0.09	<10	76	<10	8	67
--------	---	-----	------	----	-----	---	------	----	----	----	----	------	-----	------	-----	---	------	----	-----	----	----	-----	----	------	-----	----	-----	---	----

df/576  
 XLS/99

  
**ECO-TECH LABORATORIES LTD.**  
 per Frank J. Pezzotti, A.Sc.T.  
 B.C. Certified Assayer

ECO-TECH LABORATORIES LTD.  
10041 East Trans Canada Highway  
KAMLOOPS, B.C.  
V2C 6T4

## ICP CERTIFICATE OF ANALYSIS AK 99-556

RON GRANGER  
619, 20TH AVE S.  
CRESTON, BC  
V0B 1G5

Phone: 604-573-5700

Fax : 604-573-4557

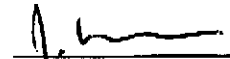
ATTENTION: RON GRANGER

No. of samples received: 1  
Sample type: Silt  
PROJECT #: None Given  
SHIPMENT #: None Given  
Samples submitted by: R. Granger

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn	
1	SSA99-1	<5	<0.2	1.46	5	70	10	0.60	<1	17	19	39	2.85	<10	0.87	481	2	0.01	27	930	12	5	<20	18	0.09	<10	21	<10	18	52	
<b>QC DATA:</b>																															
<b>Repeat:</b>																															
1	SSA99-1	<5	<0.2	1.46	5	60	10	0.61	<1	17	18	40	2.88	<10	0.86	491	2	0.01	26	1020	12	<5	<20	15	0.09	<10	22	<10	20	53	
<b>Standard:</b>																															
GEO'99																															
		-	1.0	1.74	65	145	<5	1.80	<1	20	65	82	3.89	<10	0.96	644	2	0.02	25	700	20	10	<20	53	0.10	<10	75	<10	8	68	

df/576  
XLS/99

  
ECO-TECH LABORATORIES LTD.  
Frank J. Pezzotti, A.Sc.T.  
B.C. Certified Assayer

22-Nov-99

ECO-TECH LABORATORIES LTD.  
10041 East Trans Canada Highway  
KAMLOOPS, B.C.  
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 99-651

RON GRANGER  
619, 20TH AVE S.  
CRESTON, BC  
V0B 1G5

Phone: 604-573-5700  
Fax : 604-573-4557

ATTENTION: RON GRANGER

No. of samples received: 4  
Sample type: Soil  
PROJECT #: None Given  
SHIPMENT #: None Given  
Samples submitted by: R. Granger

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	SB-40	<5	<0.2	2.96	<5	80	10	0.09	<1	10	31	41	2.58	<10	0.28	126	<1	0.01	15	680	32	<5	<20	4	0.10	<10	42	<10	22	48
2	SB-41	<5	<0.2	1.81	<5	145	15	0.09	<1	18	36	32	3.83	<10	0.47	861	2	0.01	23	1040	30	<5	<20	5	0.06	<10	46	<10	17	69
3	SB-42	5	<0.2	1.37	5	170	10	0.31	2	17	16	27	4.26	<10	0.42	1882	3	0.01	16	1060	120	<5	<20	<1	0.04	<10	32	<10	22	150
4	SB-43	<5	<0.2	1.55	<5	150	10	0.24	<1	16	16	31	4.02	<10	0.42	1660	3	0.01	14	950	60	<5	<20	2	0.05	<10	35	<10	19	103

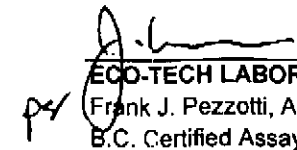
QC DATA:

Repeat:																															
1	SB-40	<5	<0.2	2.99	5	75	10	0.09	<1	10	31	41	2.62	<10	0.29	131	<1	0.01	12	740	34	<5	<20	2	0.11	<10	42	<10	22	49	

Standard:

GEO'99		120	1.0	1.80	70	165	10	1.86	<1	18	62	78	3.89	<10	0.94	661	<1	0.02	25	740	24	<5	<20	58	0.08	<10	76	<10	9	74
--------	--	-----	-----	------	----	-----	----	------	----	----	----	----	------	-----	------	-----	----	------	----	-----	----	----	-----	----	------	-----	----	-----	---	----

df/650  
XLS/99

  
 ECO-TECH LABORATORIES LTD.  
 Frank J. Pezzotti, A.Sc.T.  
 B.C. Certified Assayer

30-Sep-99

ECO-TECH LABORATORIES LTD.  
10041 East Trans Canada Highway  
KAMLOOPS, B.C.  
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 99-490

RON GRANGER  
619, 20TH AVE S.  
CRESTON, BC  
V0B 1G5

Phone: 604-573-5700  
Fax : 604-573-4557

*sb # w errors  
Et 6 & 8  
corrected sheet  
received 15 Oct  
dated 7 Oct*

ATTENTION: RON GRANGER

No. of samples received: 19  
Sample type: Soil  
PROJECT #: 99A,B  
SHIPMENT #: 4  
Samples submitted by: R Granger

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn
1	S99-7	<5	0.4	3.17	45	175	15	0.12	<1	11	17	16	2.65	<10	0.24	1168	<1	0.01	16	2000	46	<5	<20	16	0.11	<10	34	<10	11	141
2	S99-8	<5	0.4	1.51	25	235	10	0.15	<1	6	15	11	1.89	20	0.32	1219	1	0.01	15	830	26	<5	<20	28	0.03	<10	22	<10	7	80
3	S99-9	<5	0.4	2.89	15	205	15	0.20	1	11	16	18	3.08	10	0.30	2030	<1	0.02	11	1890	38	<5	<20	19	0.08	<10	43	<10	5	162
4	S99-10	<5	0.2	4.22	25	215	15	0.15	<1	15	19	46	3.23	20	0.39	1539	<1	0.02	19	1690	40	5	<20	11	0.13	<10	48	<10	38	193
5	S99-11	<5	1.0	1.68	<5	235	15	0.23	<1	12	17	15	3.07	10	0.27	6496	<1	0.01	10	1490	30	<5	<20	20	0.08	<10	49	<10	2	121
6	S99-12	<5	5.0	3.73	465	<5	<5	0.12	<1	18	23	30	2.92	<10	0.23	1070	22	<0.01	40	1550	106	75	100	<1	0.04	<10	89	670	215	115
7	S99-13	<5	1.0	2.48	15	180	15	0.19	<1	13	18	26	3.19	<10	0.19	5579	<1	0.02	10	3480	40	<5	<20	8	0.12	<10	51	<10	3	146
8	S99-14	<5	7.4	0.99	225	<5	<5	0.06	4	12	8	14	1.28	<10	<0.01	727	6	<0.01	15	640	76	105	<20	<1	0.06	<10	55	910	109	37
9	S99-15	<5	4.6	3.59	495	120	20	0.15	7	19	20	74	4.47	10	0.36	2264	2	0.01	50	1690	404	<5	<20	8	0.10	<10	42	<10	15	1009
10	S99-16	30	5.2	2.60	1090	230	<5	0.08	16	13	23	285	4.66	20	0.53	2160	2	0.01	42	700	420	<5	<20	17	0.07	<10	38	<10	37	1189
11	SB99-21	<5	0.4	1.61	10	155	15	0.04	<1	11	15	33	3.49	10	0.39	423	<1	0.01	13	770	26	<5	<20	<1	0.12	<10	47	<10	29	46
12	SB99-22	<5	<0.2	1.83	5	105	10	0.02	<1	12	20	31	3.47	20	0.72	280	<1	<0.01	14	340	20	<5	<20	<1	0.10	<10	40	<10	61	45
13	SB99-23	<5	0.6	3.52	15	255	10	0.47	<1	17	29	54	4.23	20	1.11	1681	<1	0.01	30	1030	24	10	<20	7	0.10	<10	44	<10	79	73
14	SB99-24	<5	0.4	2.33	10	265	10	0.18	<1	17	22	34	3.40	30	0.56	1678	<1	0.01	19	910	28	<5	<20	<1	0.07	<10	42	<10	70	70
15	SB99-25	<5	<0.2	1.97	10	165	15	0.04	<1	15	23	44	3.81	20	0.91	541	<1	<0.01	20	720	20	15	<20	<1	0.09	<10	40	<10	20	41
16	SB99-26	<5	<0.2	2.09	<5	70	15	0.02	<1	14	19	42	4.29	20	0.47	376	2	<0.01	15	690	20	<5	<20	<1	0.09	<10	41	<10	10	55
17	SB99-27	<5	1.0	3.16	<5	100	15	0.08	<1	53	23	117	7.94	20	0.45	1044	9	<0.01	44	1230	40	<5	<20	<1	0.04	<10	30	<10	17	93
18	SB99-28	<5	<0.2	1.97	5	70	20	0.03	<1	11	20	43	5.65	20	0.27	346	4	<0.01	15	700	18	<5	<20	<1	0.07	<10	38	<10	<1	59
19	SB99-29	<5	0.2	1.64	15	90	10	0.04	<1	16	23	35	4.11	20	0.56	507	1	<0.01	18	580	30	<5	<20	<1	0.06	<10	43	<10	11	62

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
-------	-------	---------	----	------	----	----	----	------	----	----	----	----	------	----	------	----	----	------	----	---	----	----	----	----	------	---	---	---	---	----

**QC DATA:**

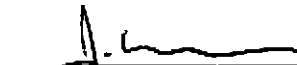
**Repeat:**

1	S99-7	<5	0.6	3.16	55	165	15	0.11	<1	11	17	16	2.64	10	0.24	1135	<1	0.01	15	2040	46	<5	<20	11	0.11	<10	33	<10	11	145
10	S99-16	35	5.2	2.68	1090	230	<5	0.08	18	13	24	295	4.81	20	0.54	2230	2	0.01	42	720	438	<5	<20	15	0.07	<10	39	<10	38	1198

**Standard:**

GEO'99		125	1.6	2.00	65	185	15	1.83	2	22	67	82	4.24	<10	1.06	782	<1	0.03	24	720	24	10	<20	65	0.12	<10	85	<10	8	74
--------	--	-----	-----	------	----	-----	----	------	---	----	----	----	------	-----	------	-----	----	------	----	-----	----	----	-----	----	------	-----	----	-----	---	----

df/502  
XLS/99

  
**ECO-TECH LABORATORIES LTD.**  
 Frank J. Pezzotti, A.Sc.T.  
 B.C. Certified Assayer