BRITISH COLUMBIA

PROSPECTORS ASSISTANCE PROGRAM

MINISTRY OF ENERGY AND MINES

GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:	1998/99
REPORT #:	PAP 98-46
NAME:	JEREMY MARLOW

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 Jeremy Marlow Reference Number 98/99 PICO

LOCATION/COMMODITIES

Project Area (as listed in Part A) 82L-SE. MINFILE No. if applicable

Location of Project Area NTS " Lat Long

Description of Location and Access By all assesable roads, on the mapsheet.

Main Commodities Searched For Industrial Minerals.

Known Mineral Occurrences in Project Area

WORK PERFORMED

1. Conventional Prospecting (area) Driving all roads and doing short traverses
2. Geological Mapping (hectares scale) Sampling outcrops and evaluating them
3. Geochemical (type and no. of samples) at home.
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 Claim Name

Location (show on map) Lat Long Elevation

Best assay sample type

Description of mineralization, host rocks, anomalies Anything worth work was near to dwellings or the topography or stratigraphy was wrong to possibly quarry any amount of materials.

Supporting data must be submitted with this TECHNICAL REPORT

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BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)

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Name Jeremy Marlow Reference Number 98/99 #100

LOCATION/COMMODITIES

Project Area (as listed in Part A) 82L-5W. " MINFILE No. if applicable

Location of Project Area NTS Lat Long

Description of Location and Access By all possible roads, on the mapsheet.

Main Commodities Searched For Industrial Minerals

Known Mineral Occurrences in Project Area

WORK PERFORMED

1. Conventional Prospecting (area) Driving all roads and doing short
2. Geological Mapping (hectares scale) traverses, sampling outcrops, then
3. Geochemical (type and no. of samples) evaluating samples at home.
4. Geophysical (type and line km) 1- whole rock and CEC. and exchangables
5. Physical Work (type and amount)
6. Drilling (no. holes, size, depth in m, total m)
7. Other (specify)

SIGNIFICANT RESULTS

Commodities Claim Name

Location (show on map) Lat Long Elevation

Best assay sample type

Description of mineralization, host rocks, anomalies Anything worth work was near to dwellings or the topography or Stratigraphy was wrong to establish any kind of a quarry.

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BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)

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Name Jeremy Marlow Reference Number 98/99 P100

LOCATION/COMMODITIES

Project Area (as listed in Part A) 82L 12E MINFILE No. if applicable _____

Location of Project Area NTS " Lat _____ Long _____

Description of Location and Access All passable roads were drove on the mapsheet.

Main Commodities Searched For Industrial Minerals.

Known Mineral Occurrences in Project Area _____

WORK PERFORMED

1. Conventional Prospecting (area) Driving all roads and doing short
2. Geological Mapping (hectares/scale) traverses.
3. Geochemical (type and no. of samples) 3 Whole Rock 1 CEC and exchangables.
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) Blowtorch testing.

SIGNIFICANT RESULTS

Commodities Perlite Claim Name Perl 1-4 and CYAN 1-2

Location (show on map) Lat 50°33' 119°46' Long 50°59' 119°45' Elevation 1180m. Perl 1250m CYAN

Best assay/sample type white frothy glass on heating.

Description of mineralization, host rocks, anomalies Perl 1-4 Glassy breccia, some of which partially expands. However not very uniform.

CYAN 1-2. Expands up to 10x size to white frothy glass. Uniform good grade. Snow, so couldn't evaluate the discovery. Eocene

CYAN - Some Intrusives? Rocites. flows.

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BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)

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Name Jeremy Marlow Reference Number 98/99 P100

LOCATION/COMMODITIES

Project Area (as listed in Part A) 82L 12W MINFILE No. if applicable

Location of Project Area NTS " Lat Long

Description of Location and Access All useable roads on mapsheet.

Main Commodities Searched For Industrial Minerals.

Known Mineral Occurrences in Project Area

WORK PERFORMED

1. Conventional Prospecting (area) Groundsearch over 2 Km.
2. Geological Mapping (hectares/scale) 1 Km x 300 meters.
3. Geochemical (type and no. of samples) 13 whole rock analysis, 2 c.E.C.'s and exchangables, 1 Au. geochem and one 28 E.I.P.
4. Geophysical (type and line km)
5. Physical Work (type and amount) 2 Km grid.
6. Drilling (no. holes, size, depth in m, total m)
7. Other (specify)

SIGNIFICANT RESULTS

Commodities KAOLIN Claim Name KAO 1-5.

Location (show on map) Lat 50°37' Long 120°56' Elevation 650 m.

Best assay/sample type Similar to Buse Lake. Whole rock - low potassium and sodium.

Description of mineralization, host rocks, anomalies Arkosic sediments covered by basalts. Kaolin clasts in breccias to 4cm. On wide, long bench.

4. Geochemical. MAR 01. In the general area.

Supporting data must be submitted with this TECHNICAL REPORT

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BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)

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Name Jeremy Maslow Reference Number 98/99 #100

LOCATION/COMMODITIES

Project Area (as listed in Part A) 82 L 12 W MINFILE No. if applicable

Location of Project Area NTS " Lat Long

Description of Location and Access All useable roads on mapsheet.

Main Commodities Searched For Industrial Minerals.

Known Mineral Occurrences in Project Area

WORK PERFORMED

1. Conventional Prospecting (area) Walking and following stratigraphy
2. Geological Mapping (hectares scale) taking samples and doing tests.
3. Geochemical (type and no. of samples) 3 Whole Rock 3 C.E.C. and Exchangables
4. Geophysical (type and line km) 3-28 Element I.C.P.
5. Physical Work (type and amount)
6. Drilling (no. holes, size, depth in m, total m)
7. Other (specify)

SIGNIFICANT RESULTS

Commodities Montmorillonite. Claim Name Atlo 1-2.

Location (show on map) Lat 50° 37' Long 120° 52' Elevation 600 meters.

Best assay/sample type 62 CEC and a free swell of 80 ml.

Description of mineralization, host rocks, anomalies Tuffaceous sediments overlain by basalts. Sediments largely altered to montmorillonite. All Eocene

Supporting data must be submitted with this TECHNICAL REPORT

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BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)

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Name Jeremy Marlow Reference Number 98/99 PIOC

LOCATION/COMMODITIES

Project Area (as listed in Part A) 82 L 12 W MINFILE No. if applicable

Location of Project Area NTS " Lat Long

Description of Location and Access All useable roads on map sheet.

Main Commodities Searched For Industrial Minerals.

Known Mineral Occurrences in Project Area

WORK PERFORMED

1. Conventional Prospecting (area) Walking all roads looking for
2. Geological Mapping (hectares/scale) opal, checking all outcrops.
3. Geochemical (type and no. of samples)
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 Precious Opal Claim Name Monte 1-2—3-4

Location (show on map) Lat 50° 30' Long 119°55'+119°58' Elevation 1525 meters.

Best assay/sample type veinlets of clear boitroydal opal?, with colours. Good Host rocks.

Description of mineralization, host rocks, anomalies Host rocks are vesicular lava similar to Okanagan Opals to the east. All Eocene.

Supporting data must be submitted with this TECHNICAL REPORT

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Summary of Prospecting Activities 1998

And

Technical Report.

Author: J. Marlow

December, 1998.

Table Of Contents

Summary of Prospecting Activities: In the 1998 field season, I obtained a prospectors grant to look for industrial minerals in project area 82L /5E, 82L /5W, 82L /12W, and 82L /12E. As a result of the grant, five industrial locations were discovered and subsequently staked.

Three of the discoveries are significant and the commodities are kaolinite, perlite and montmorillonite. (See Table 1). Two other claims, the Perl 1 - 4, (Pitchstone) and Monte 1 - 4, (Precious Opal) are not as exciting but have some exploration potential.

Technical Report

Geology: The area is limited to outcrop exposure up and out of the main valleys and is largely till covered. The lower parts of the valleys expose Nicola volcanics and sediments overlain by Eocene basalt's, breccias, conglomerates and tuffs. In this stratigraphy, there are lot of amygdule zeolites, some clays, etc. Because of the relief, they are hard to trace or follow and are usually cut off by further volcanic activity.

The three claims that follow-up work was performed on, have good size and are laying so the topography is not a problem for quarrying.

Prospecting: Prospecting consisted of driving all accessible roads, and short traverses were done on areas of interest or where possible contacts might be exposed. Analysis done was composed mainly of Whole Rock Analysis and Cation Exchange Capacities and Exchangeables.

Table 1.

Claim Name	Tenure #	Commodity	N.T.S.	Longitude	Latitude	Expiry Date
Kao 1-4	363666-69	Kaolinite	82L12W			June,14/99
Monte 1-4	363975-78	Prec. Opal	82L12W			June,19/99
Kao 5	363979	Kaolinite	82L12W			July,2/99
Atto 1-2	364218-19	Montmoril-lonite	82L12W			July,2/99
Perl 1-4	367305-08	Pitchstone	82L12E			Nov,20/99
Cyan 1-2	367316-17	Perlite,Clays	82L12W 82L12E			Nov,21/99

Properties and Worked Performed:

Monte Property.

The Monte claims were staked in June of 1998. Flashes of colors were observed in boitroydal veinlets of what may be opal or chalcedony. 3 days were spent searching for precious opal, however, there is a lot of overburden with roads being the best exposures. The veinlets are hosted in vesicular basalt, similar to the host rocks of the Okanagan Opals discovery to the east. The claims are located approx. 7km. and 8km. up Monte Hills rd. off Teakettle Valley rd. The area is either clearcuts with much overburden or thick bush. These claims will be prospected more in 1999, and evaluated to see if they will be held or let go of. The claims sit at approx. 1525 meters.

Perl Property

The Perl 1-4 claims were staked November 19, 1998. They were staked for the possible perlite potential. Some samples of the breccias frothed to brown glass and expanded up to five times when heated. Further prospecting, sampling and testing reveals the host rock to be more of a pitchstone breccia than a perlite, however, the rocks that partly swell cover a large area. Plans for 1999 include more sampling, testing and more emphasis put on the geology, specifically whether the hydration process is one where alteration is complete to produce an actual deposit or that the process is one of weathering. This property, I would like to evaluate or option off in 1999. The property is accessed by turning north at Falkland onto Chase Creek road, then west on the Paxton Valley road. At approx. 5.2km, turn left onto logging road and proceed 2.4km, then turn left. Continue approx. 1.1km and turn right. Go up road approx. 800 meters and turn left. Property sits from approx. 500 meters to 1.5km intermittent along road. It is at an elevation of approx. 1182 meters.

Atto Property

The Atto property is located just north of the junction of the Barnhartvale-Lower Robbins Range road at an elevation of 600 meters. Clay gouge on the main road and layered claystone is exposed in a recent cut above the road. The layered material was found to be colloidal and also absorbed oil. The property was staked on July 1, 1998.

This material seems to be of good grade montmorillonite. (See Appendix Atto 1-2-3). Although calcium is the dominant exchange ion, the total C.E.C. of 62 gives the property material enough potential to carry on a bigger program in 1999. The detrimental factors are houses in the immediate vicinity and basalt's overlaying the zone. However, it may be worth developing as the clay layers are at least six meters thick and there may be enough tonnage available for a small quarry. This would also depend if the material is soft to quarry without blasting. (See Appendix II for Sample locations and Sketch.)

4. Kao Property

The Kao 1-4 claims were staked on June 13, 1998. The Kao 5 claims was staked on July 1, 1998. The property is accessed by Duck Range road approx. 1.2 km off the Kamloops-Vernon Hwy. The property is at an elevation of approx. 700 meters.

It is a low-grade Arkosic sedimentary kaolin deposit. It is very similar to the Buse Lake quarry situated approx.12 km to the west. (See Whole Rock and Sketch).
I will try to option this property. An assessment will be filed in 1999. The most detrimental factor here, again is the vicinity to houses.

5. Cyan Property

This was the most exciting discovery I made this year but, unfortunately, there was snow to contend with and so I couldn't do much follow-up in regards to size, etc. The perlite was discovered by blowtorching samples at home. The outcrop was then revisited and re-sampled but because of snow and overburden, the size couldn't be defined. The rocks contacting on the west are mainly dacite clays but these couldn't be evaluated further. Whole Rock and C.E.C. were done on two samples. (See Analysis and Sketch. Appendix 3).

Analysis And Testing

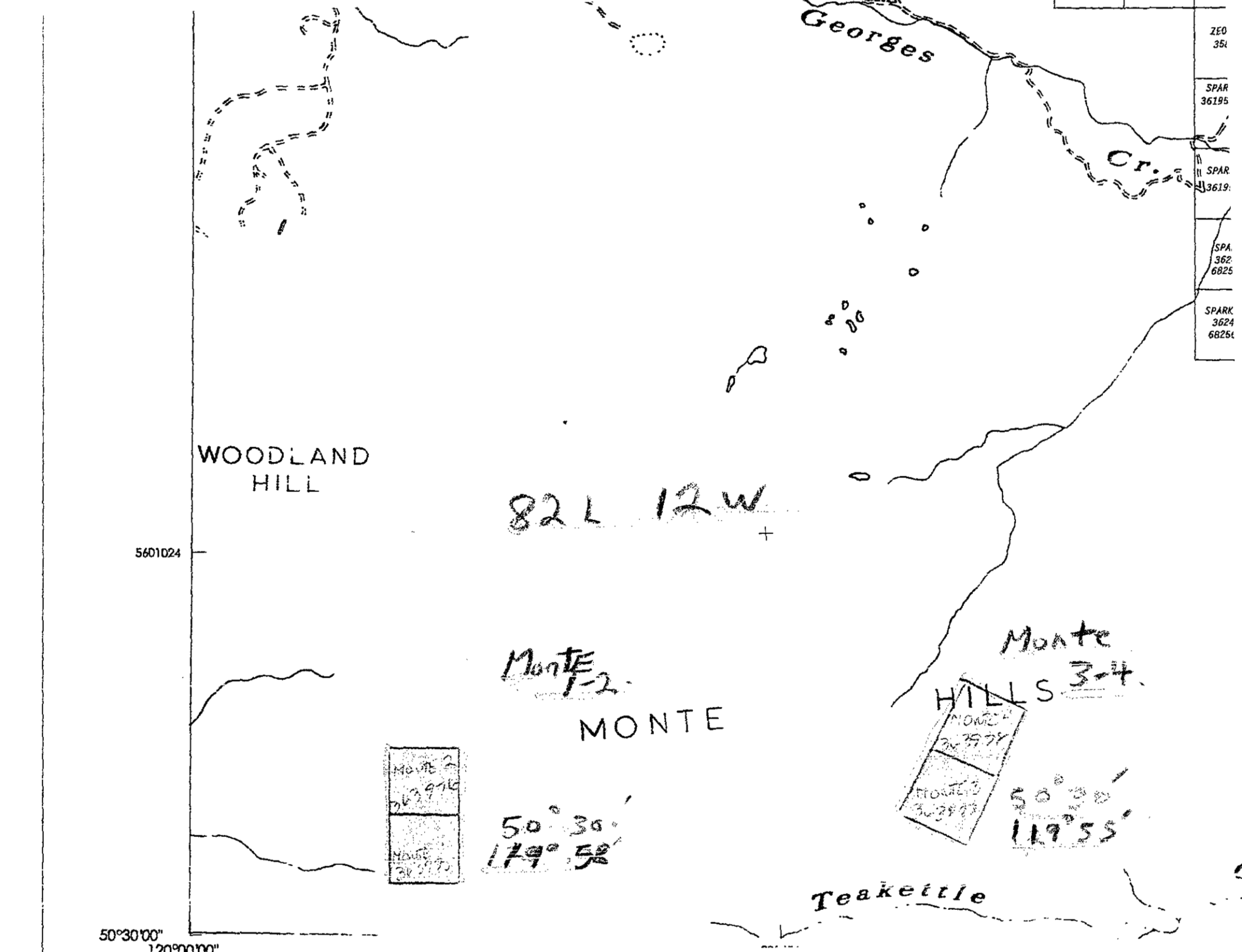
Analysis consisted of Whole Rock Geo-chem which was done at Eco-Tech Laboratories in Kamloops. One Gold Geo-chem and four 28 element I.C.P. analysis were also done at Eco-Tech in Kamloops. Seven samples were analyzed for Cation-Exchange Capacity and the Exchangeables at Pacific Soils in Richmond.

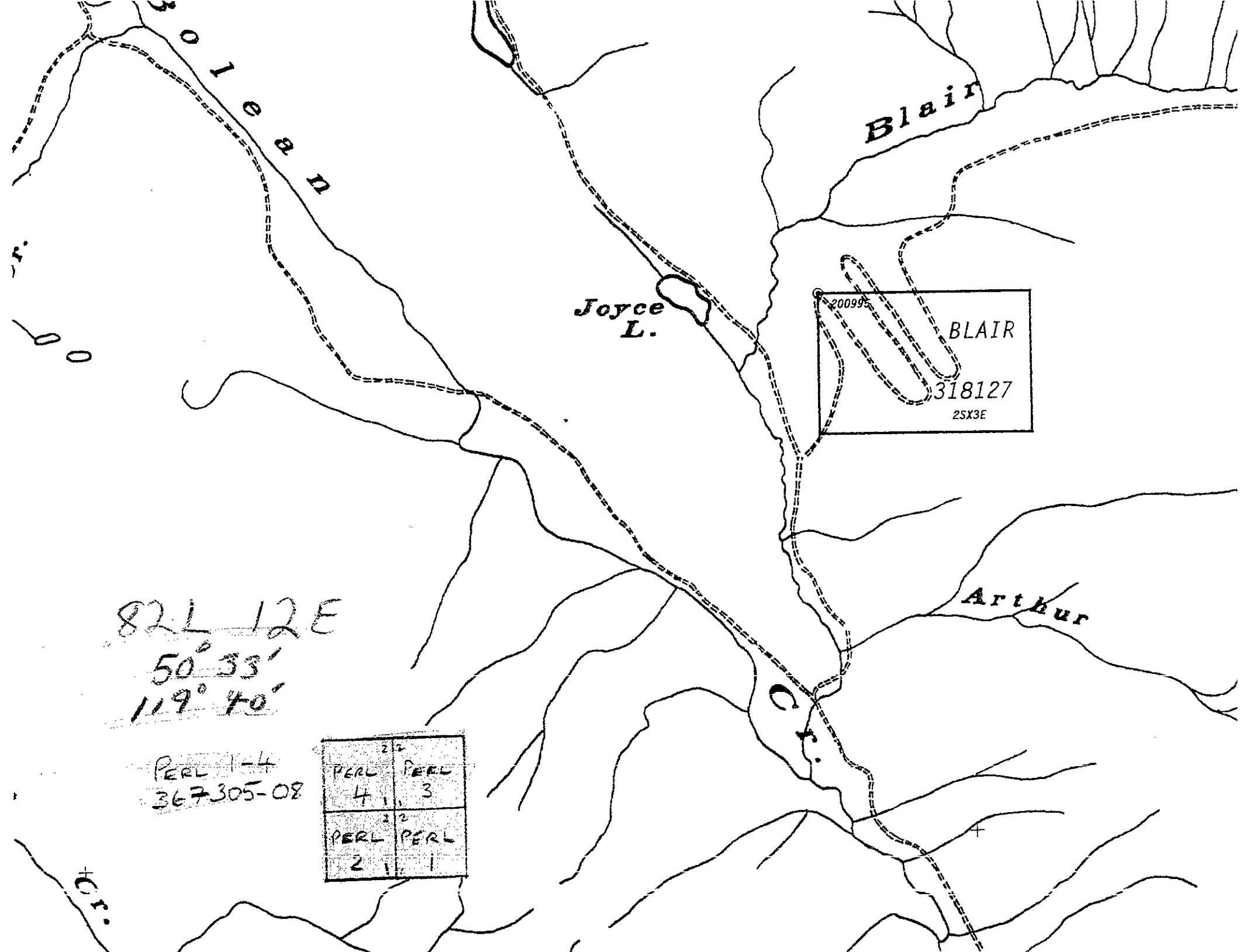
In addition I did swelling tests with a blowtorch, usually at home because of the wind out on the property. (Cyn 01 puffs up to 10 times). I also did free swell tests for the more colloidal samples. The Atto 1 was the best sample and had a free swell of 8mL. The method was done using 2.5 grams of dry pulverized sample, adding slowly to 100mL of water in a cylinder and let sit for a day.

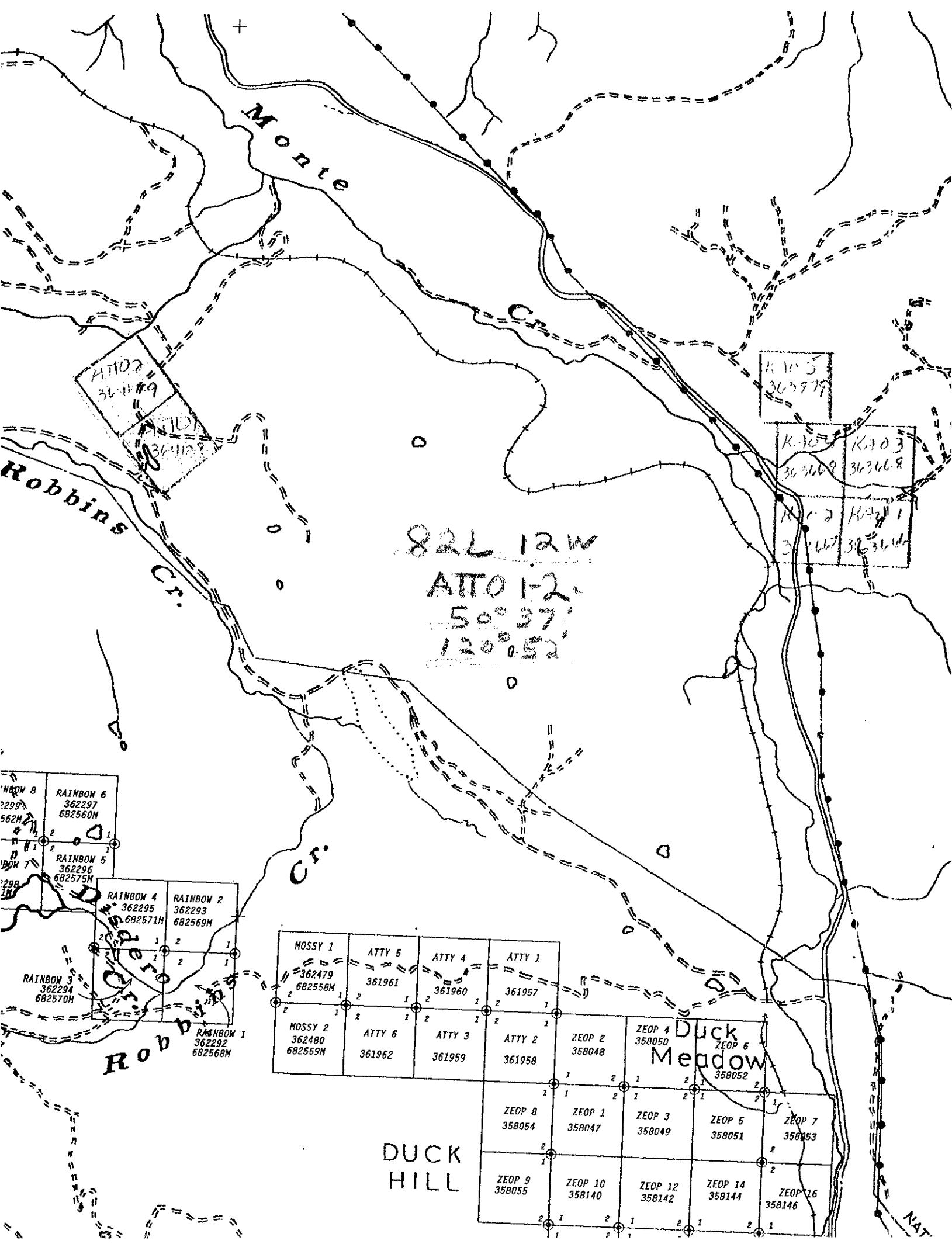
Table 2.

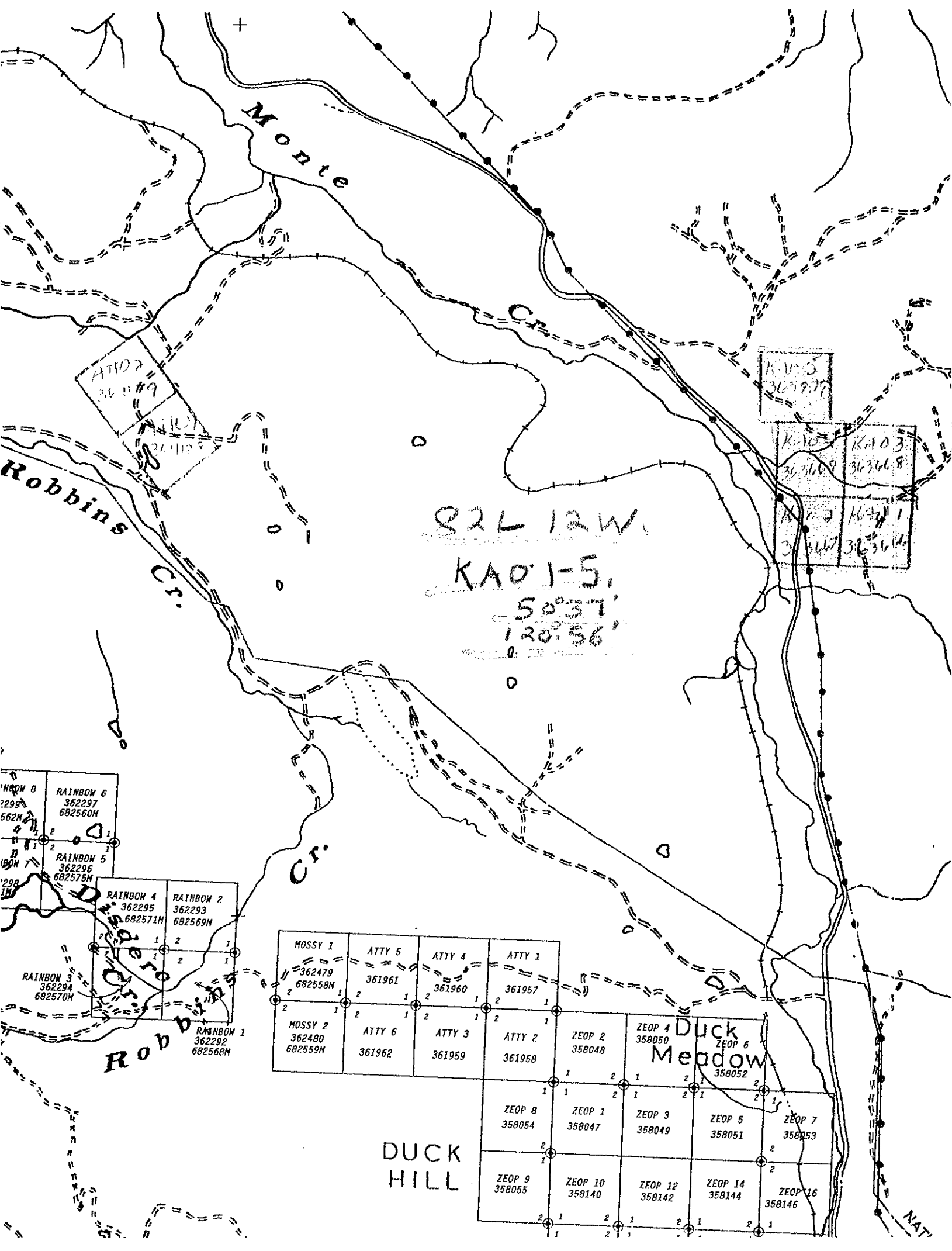
Whole Rock Analysis	28 Element I.C.P.	Au Geo-Chem	C.E.C. and Exchangeables
Atto 01	Yes		Yes
Atto 02	Yes		Yes
Atto 03	Yes		Yes
Pin 01			Yes
MAR 01 (Martin Mountain)			
EST 02 (Perl-Estekelewan Mt.)			
CYN 01			Yes
CYN 06			
KAO 01			Yes
KAO 02			Yes
KAO 03			
KAO 04			
KAO 05			
KAO 06	Yes	Yes	
KAO 07			
KAO 08			
KAO 09			
KAO 10			
KAO 11			
KAO 12			
KAO 13			

Appendix 1.


Georges
Cr.
WOODLAND
HILL
82 L 12 W
5601024
MONTE
Monte
HILLS 3-4
50°30'
119°55'
Teakettle
50°30'00"
120°00'00"


Blair
Joyce L.
200995
BLAIR
318127
2SX3E
Arthur
Cr.
82L 12E
50° 33'
119° 40'
PERL 1-4
367305-08
PERL 4
PERL 3
PERL 2
PERL 1


Monte
Cr.
Robbins Cr.
82L 12W
ATTO 1-2
50° 37'
120° 0.52'
RAINBOW 6
362297
682560M
RAINBOW 5
362296
682575M
RAINBOW 4
362295
682571M
RAINBOW 2
362293
682569M
RAINBOW 3
362294
682570M
RAINBOW 1
362292
682568M
Robbins
Cr.
MOSSY 1
362479
682558M
ATTY 5
361961
ATTY 4
361960
ATTY 1
361957
MOSSY 2
362480
682559M
ATTY 6
361962
ATTY 3
361959
ATTY 2
361958
ZEOP 2
358048
ZEOP 4
358050
ZEOP 6
358052
Duck
Meadow
ZEOP 8
358054
ZEOP 1
358047
ZEOP 3
358049
ZEOP 5
358051
ZEOP 7
358053
DUCK
HILL
ZEOP 9
358055
ZEOP 10
358140
ZEOP 12
358142
ZEOP 14
358144
ZEOP 16
358146


Monte
Cr.
Robbins Cr.
92L 12W
KA01-5.
-5°37'
120°56'
RAINBOW 8
RAINBOW 6
362297
682560M
RAINBOW 5
362296
682575M
RAINBOW 4
362295
682571M
RAINBOW 2
362293
682569N
RAINBOW 3
362294
682570M
RAINBOW 1
362292
682568M
Dispero Cr.
Robbins
MOSSY 1
362479
682558N
ATTY 5
361961
ATTY 4
361960
ATTY 1
361957
MOSSY 2
362480
682559N
ATTY 6
361962
ATTY 3
361959
ATTY 2
361958
ZEOP 2
358048
ZEOP 4
358050
ZEOP 6
358052
Duck Meadow
ZEOP 8
358054
ZEOP 1
358047
ZEOP 3
358049
ZEOP 5
358051
ZEOP 7
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ZEOP 10
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ZEOP 12
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ZEOP 14
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ZEOP 16
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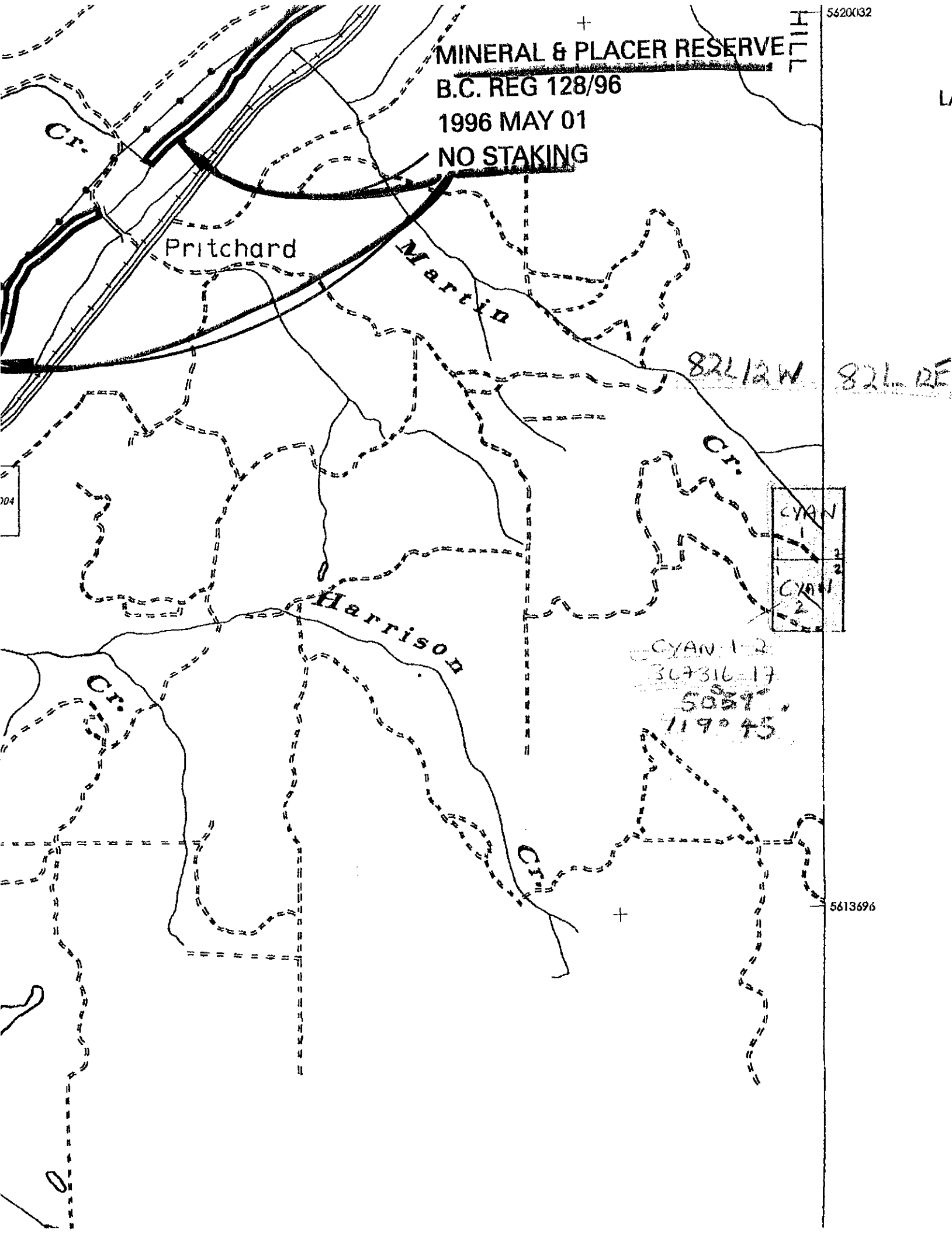
MINERAL & PLACER RESERVE
B.C. REG 128/96
1996 MAY 01
NO STAKING
Pritchard
Martin
Harrison
Cr.
Cr.
Cr.
Cr.
82L12W
82L12E
CYAN
1
2
CYAN
1
2
CYAN 1-2
367316-17
5551'
119°45'
5620032
5613696

Appendix 2.

ECO-TECH LABORATORIES LTD.

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

WHOLE ROCK CERTIFICATE OF ANALYSIS AK98-215

KAMLOOPS INDUSTRIAL MINERALS
PO BOX 1472
KAMLOOPS, BC
V2C 6L8

23-Jun-98

ATTENTION: CHUCK MARLOW

No of samples Received: 3
Sample Type: Rock
PROJECT #: None Given
SHIPMENT #: None Given

Values expressed in percent

ET #.	Tag #	BaO	P2O5	SiO2	MnO	Fe2O3	MgO	Al2O3	CaO	TiO2	Na2O	K2O	L.O.I.
1	KAO-01	0.15	0.56	48.68	0.13	8.25	8.02	12.99	8.17	0.94	3.27	5.02	7.86
2	KAO-02	0.06	0.47	33.95	0.18	6.39	7.09	10.45	13.03	0.76	0.87	1.65	23.09
3	KAO-03	0.17	0.54	48.39	0.14	8.56	8.64	13.03	8.39	0.83	3.30	2.93	7.99

QC/DATA:

Standard:

SY2	0.06	0.46	59.65	0.32	8.61	2.62	11.79	8.20	0.13	4.11	4.31	1.84
MRG1	0.01	0.01	38.76	0.17	18.21	12.79	8.18	15.15	3.79	0.67	0.18	2.22

per

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

XLS/98
df/wr215

Eco-Tech
LABORATORIES LTD.

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

WHOLE ROCK CERTIFICATE OF ANALYSIS AK98-233

KAMLOOPS INDUSTRIAL MINERALS
PO BOX 1472
KAMLOOPS, BC
V2C 6L8

30-Jun-98

ATTENTION: CHUCK MARLOW

No of samples Received:10
Sample Type: Rock
PROJECT #: Not given
SHIPMENT #:Not given

Values expressed in percent

ET #.	Tag #	BaO	P205	SiO2	MnO	Fe203	MgO	Al203	CaO	TiO2	Na2O	K20	L.O.I.
1	KAO-04	0.07	0.39	30.94	0.17	7.91	8.79	9.25	14.73	0.72	0.45	1.99	24.58
2	KAO-05	0.01	0.47	44.40	0.12	6.90	5.29	13.28	9.22	0.90	0.11	0.21	19.08
3	KAO-06	0.06	0.71	56.89	0.17	9.16	1.33	16.38	2.50	1.23	0.51	2.04	9.02
4	KAO-07	0.18	0.57	48.67	0.14	7.56	3.64	15.18	6.85	1.05	0.10	0.20	15.85
5	KAO-08	0.06	0.62	44.17	0.12	7.13	4.06	14.38	9.28	0.98	0.45	1.58	17.17
6	KAO-09	0.13	0.60	48.35	0.14	7.86	4.10	15.41	7.66	1.04	2.63	2.79	9.29
7	KAO-10	0.13	0.57	49.04	0.15	8.85	4.69	15.02	8.00	1.07	2.60	2.61	7.26
8	KAO-11	0.03	0.55	46.04	0.10	7.04	4.00	14.37	8.89	0.99	0.33	1.13	16.53
9	KAO-12	0.04	0.41	39.32	0.10	4.58	7.51	7.22	15.89	0.52	0.09	0.01	24.31
10	KAO-13	0.02	0.15	21.60	0.14	5.50	11.98	3.95	22.75	0.29	0.04	<0.01	33.67
QC/DATA:													
Repeat #:													
1	KAO-04	0.06	0.43	31.00	0.17	7.99	8.73	9.23	15.02	0.71	0.33	1.63	24.70
Resplit #:													
1	KAO-04	0.07	0.42	30.81	0.17	8.03	8.47	9.19	14.88	0.70	0.31	1.93	25.02
Standard:													
SY2		0.04	0.44	59.16	0.32	6.40	2.77	12.08	8.31	0.14	4.34	4.16	1.84
MRG1		0.01	0.06	38.55	0.17	17.84	13.24	8.53	14.87	3.59	0.77	0.16	2.22

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

XLS/98
df/wr233

24-Sep-98

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

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

ICP CERTIFICATE OF ANALYSIS AK 98-558

KAMLOOPS INDUSTRIAL MINERALS
PO BOX 1472
KAMLOOPS, BC
V2C 6L8

ATTENTION: CHUCK MARLOW

No. of samples received: 3
Sample type: Chip
PROJECT #: None Given
SHIPMENT #: None Given
Samples submitted by: C. Marlow

Values in ppm unless otherwise reported

Et #.	Tag #	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	ATTO 1	0.4	1.09	10	155	5	0.83	<1	18	19	52	4.82	30	0.62	954	25	0.09	38	710	28	<5	<20	287	0.02	<10	59	<10	12	88
2	ATTO 2	<0.2	1.45	5	290	5	2.64	<1	16	28	31	4.71	30	0.71	1179	12	0.08	31	5350	12	<5	<20	340	0.04	<10	90	<10	15	67
3	PIN 01	<0.2	1.66	<5	105	<5	3.35	<1	30	58	16	4.69	20	2.20	998	4	0.09	88	2300	8	<5	<20	413	0.01	<10	93	<10	13	60
QC DATA:																													
Resplit:																													
1	ATTO 1	0.2	1.16	15	145	<5	0.82	<1	17	22	50	4.72	30	0.63	900	24	0.08	38	720	24	<5	<20	270	0.03	<10	60	<10	12	88
Repeat:																													
1	ATTO 1	0.4	1.15	15	155	<5	0.83	<1	18	22	51	4.85	30	0.64	945	26	0.09	42	730	28	<5	<20	288	0.03	<10	61	<10	11	87
Standard:																													
GEO'98		1.2	1.71	65	165	<5	1.73	<1	20	61	81	4.07	<10	0.95	698	<1	0.03	22	670	24	<5	<20	62	0.11	<10	76	<10	5	71

df/552
XLS/98

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

9-Jul-98

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

Phone: 25[illegible]5700
Fax: 25[illegible]4557

ICP CERTIFICATE OF ANALYSIS AK 98-233

KAMLOOPS INDUSTRIAL MINERALS
PO BOX 1472
KAMLOOPS, BC
V2C 6L8

ATTENTION: CHUCK MARLOW

No. of samples received:10
Sample type:ROCK
PROJECT # NONE GIVEN
SHIPMENT # NONE GIVEN
Samples submitted by: J. MARLOW

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
3	KA006	5	<0.2	0.77	<5	155	10	1.69	1	24	135	18	6.87	<10	0.59	1333	8	0.01	28	2700	2	<5	<20	81	0.02	<10	185	<10	13	73

dM272R
XLS/98

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Eco-Tech
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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

WHOLE ROCK CERTIFICATE OF ANALYSIS AK98-557

KAMLOOPS INDUSTRIAL MINERALS
PO BOX 1472
KAMLOOPS, BC
V2C 6L8

22-Sep-98

ATTENTION: CHUCK MARLOW

No of samples Received: 2
Sample Type: Rock
PROJECT #: None Given
SHIPMENT #: None Given

Values expressed in percent

ET #.	Tag #	BaO	P205	SiO2	MnO	Fe203	MgO	Al203	CaO	TiO2	Na2O	K20	L.O.I.
1	MAR 01	0.03	0.09	73.06	0.02	0.76	0.03	13.94	0.33	0.15	2.72	7.00	1.87
2	ESTO2	0.09	0.38	54.80	0.27	12.86	1.80	14.69	1.43	0.68	1.49	2.39	8.81
QC/DATA:													
Repeat #:													
1	MAR 01	0.04	0.07	72.63	0.02	0.79	0.05	13.99	0.32	0.14	2.76	7.44	1.75
Standard:													
SY2		0.04	0.42	59.67	0.32	6.26	2.53	12.01	8.06	0.09	4.32	4.44	1.84
MRG1		0.02	0.02	38.29	0.16	17.82	13.64	8.33	14.73	3.79	0.76	0.22	2.22

per

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

XLS/98
df/wr557

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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

WHOLE ROCK CERTIFICATE OF ANALYSIS AK98-558

KAMLOOPS INDUSTRIAL MINERALS
PO BOX 1472
KAMLOOPS, BC
V2C 6L8

22-Sep-98

ATTENTION: CHUCK MARLOW

No of samples Received: 3
Sample Type: Rock
PROJECT #: None Given
SHIPMENT #: None Given

Values expressed in percent

ET #.	Tag #	BaO	P205	SiO2	MnO	Fe203	MgO	Al203	CaO	TiO2	Na2O	K20	L.O.I.
1	ATTO 1	0.08	0.20	54.08	0.12	7.41	2.32	13.77	1.23	0.68	0.96	1.15	18.01
2	ATTO 2	0.09	0.97	53.61	0.14	6.54	1.72	12.55	4.22	0.65	1.25	0.58	17.68
3	PIN 01	0.10	0.51	46.30	0.12	6.93	3.91	14.85	6.12	0.96	1.67	2.04	16.49
QC/DATA:													
Repeat #:													
1	ATTO 1	0.07	0.15	53.84	0.11	7.43	2.41	13.74	1.46	0.69	0.98	1.25	17.87
Standard:													
SY2		0.04	0.42	59.67	0.32	6.26	2.53	12.01	8.06	0.09	4.32	4.44	1.84
MRG1		0.02	0.02	38.29	0.16	17.82	13.64	8.33	14.73	3.79	0.76	0.22	2.22

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

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email: ecotech@mail.wkpowerlink.com

WHOLE ROCK CERTIFICATE OF ANALYSIS AK98-736

KAMLOOPS INDUSTRIAL MINERALS
PO BOX 1472
KAMLOOPS, BC
V2C 6L8

8-Dec-98

ATTENTION: CHUCK MARLOW

No of samples Received: 6
Sample Type: Rock
PROJECT #: None Given
SHIPMENT #: None Given

Values expressed in percent

ET #.	Tag #	BaO	P205	SiO2	MnO	Fe203	MgO	Al203	CaO	TiO2	Na2O	K20	L.O.I.
1	CYN-01	0.03	0.07	75.22	0.07	0.89	0.30	13.60	0.73	0.17	3.68	4.95	5.39
2	ATTO-1	-	-	-	-	-	-	-	-	-	-	-	-
3	ATTO-2	-	-	-	-	-	-	-	-	-	-	-	-
4	ATTO-3	0.11	0.31	71.11	0.02	4.94	1.01	8.83	1.62	0.49	0.90	1.82	8.84
5	CYN-06	0.07	0.07	72.29	0.04	1.01	0.33	13.97	0.51	0.18	3.48	5.79	1.27
6	PIN-01	-	-	-	-	-	-	-	-	-	-	-	-
QC/DATA:													
Repeat #:													
1	CYN-01	0.02	0.08	73.44	0.07	0.86	0.15	13.68	0.73	0.17	3.62	4.75	5.41
Standard:													
SY2		0.03	0.52	59.66	0.31	5.84	2.75	12.22	7.77	0.13	4.42	4.61	1.84
MRG1		0.01	0.10	39.55	0.17	17.13	13.17	8.69	14.36	3.67	0.79	0.13	2.22

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

XLS/98
ofl/ar736

Appendix 3.

PACIFIC SOIL ANALYSIS INC.

SOIL AND PLANT ANALYSES

Kamloops Industrial Minerals

Chuck Marlow Dec 18/98

SAMPLE	C.E.C.	EXCHANGEABLE CALCIUM	MAGNESIUM	SODIUM	POTASSIUM
		(me / 100 gms)			
736 - 1 (YN)	3.2	3.00	0.68	0.93	0.88
- 2 AH6 1	62.	18.75	15.75	.30	1.03
- 3 2	62	34.00	18.50	.45	0.53
- 4 3	36	23.25	5.55	2.38	1.73
- 5 PIN1	46	19.00	26.25	.30	0.80

PSAL

#5 - 11[illegible] Voyageur Way, Richmond, B.C. V6X 3G9 Phone: (604)273-8226

PACIFIC SOIL ANALYSIS INC.

SOIL AND PLANT ANALYSES July 27/98

Kamloops Industrial Minerals

SAMPLE	C.E.C.	EXCHANGEABLE CALCIUM	MAGNESIUM	SODIUM	POTASSIUM
	(me / 100 gms)				
26-2	41.1	11.0	7.00	0.88	3.50
27-2	57.1	17.8	6.00	4.25	18.30
J 215-001	30.4	11.8	9.75	1.55	.85
J -002	13.8	16.5	8.25	.12	.35
280-001	19.2	13.0	5.25	.28	.70
002	16.1	9.25	4.00	.95	1.25
003	22.3	11.3	4.75	.40	.73
004	22.3	21.3	4.75	.60	.73
005	17.0	18.5	5.00	.30	.68

* Concentrated Sulphuric Acid *

	Na ←(ppm)→ P
26-2	851
27-2	1,010

*We are not capable of doing Total Mineral Analyses so we digested your sample in con. H_2SO_4 to give you some idea of values, at no charge to you.

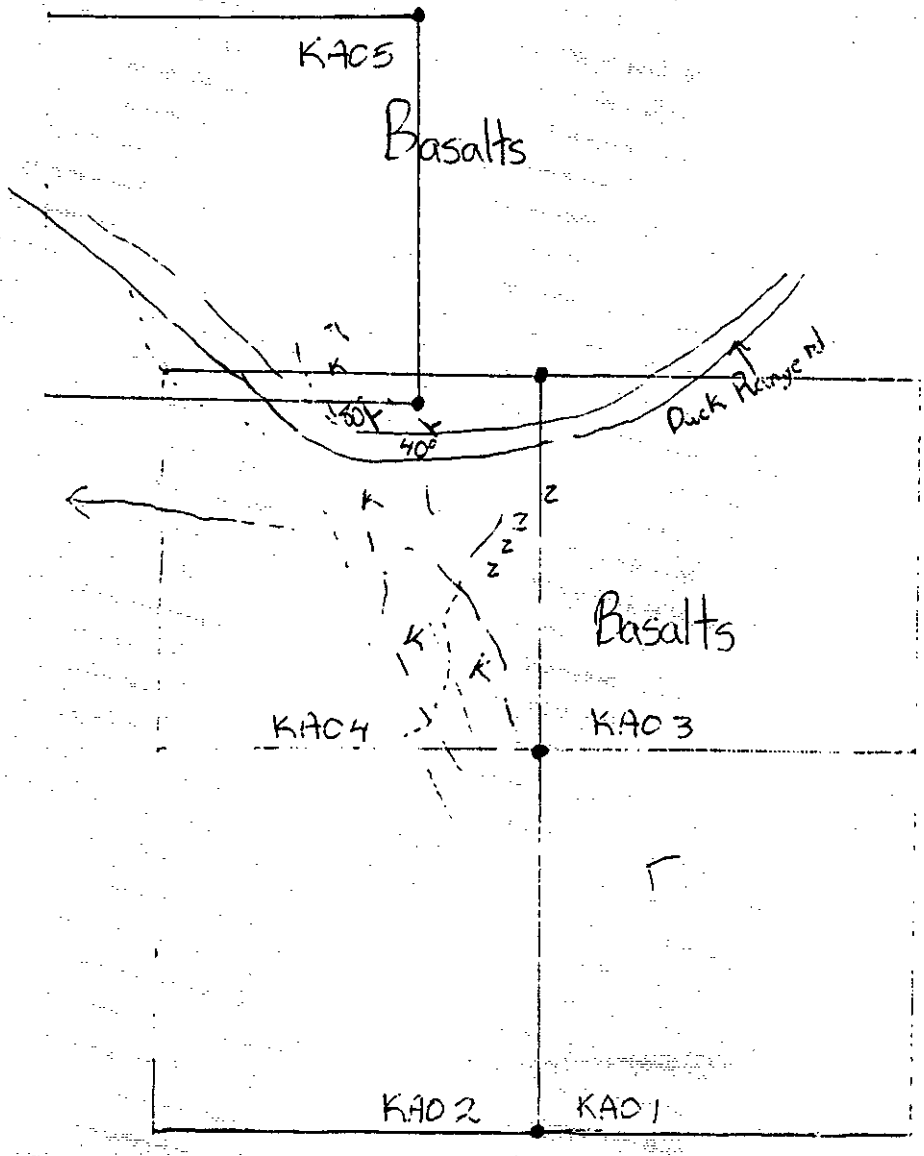
(Lou Hermanni)

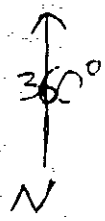
PSAL

#5 – 11720 Voyageur Way, Richmond, B.C. V6X 3G9 Phone: (604)273-8226

Appendix 4.

Appendix 5.





KAO 1-5

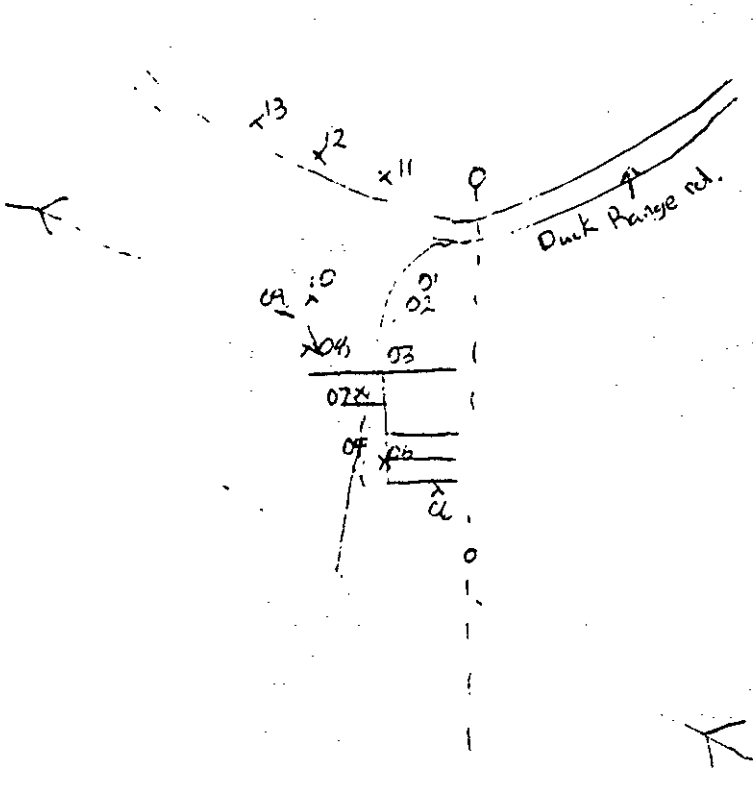
K - LENS

Z Z Z - Amygdale Zeolites in Basalts

K - Kaolin Rich Sedimentary Lens

Striking South-East

Dipping 40°-80° North-East



KAO 1-5
Grid and Sample Locations

KAO 01 and 02 - Hanging Wall Zeolites Basalt

KAO-03 - Clay Gouge

KAO-04 - Carbonate Rich Grab

KAO-05 - 11. Main Lens. At least 20 meters thick, 50 meters wide and 400 meters long.

KAO-12 Carbonate Rich Layer.

KAO-13 Lowest Exposed Stratigraphy.