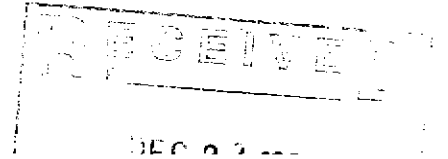


**BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM**



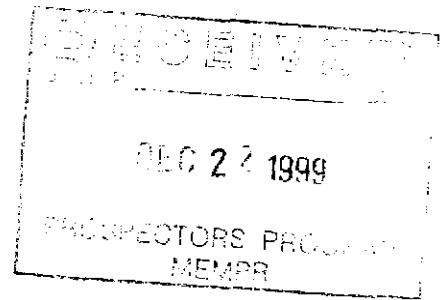
**BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
MINISTRY OF ENERGY AND MINES
GEOLOGICAL SURVEY BRANCH**

PROGRAM YEAR: 1999/2000

REPORT #: PAP 99-5

NAME: RALPH KEEFE

**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 Ralph R. Keefe Reference Number P7 1999/2000

LOCATION/COMMODITIES

Project Area (as listed in Part A) SIB MINFILE No. if applicable N/A
 Location of Project Area NTS 93 E 11/E Lat 53 42 Long 127 04
 Description of Location and Access Main Haul Roads (Needle Main) plus winter and current logging (H.F.P.)

Main Commodities Searched For Cu, AG & Au

Known Mineral Occurrences in Project Area Huckleberry Mine approx. 10 Km. S.W.

WORK PERFORMED

1. Conventional Prospecting (area) New Road construction plus current logging
2. Geological Mapping (hectares/scale) As above
3. Geochemical (type and no. of samples) Nil required
4. Geophysical (type and line km) Nil required
5. Physical Work (type and amount) Nil required
6. Drilling (no. holes, size, depth in m, total m) Nil required
7. Other (specify) Nil required

SIGNIFICANT RESULTS Nil

Commodities _____ Claim Name _____
 Location (show on map) Lat _____ Long _____ Elevation _____
 Best assay/sample type _____

Description of mineralization, host rocks, anomalies _____
No new discoveries in current logging this season. Further follow-up in 2000/2001 under O.G.D.P.

*No indication why SIB should be continued
 ex. soil geology/potential &
 monitor road development
 near Huckleberry*

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*.

SIB PROJECT

SIB PROJECT

SCALE 1:50000

PROSPECTED - 1999

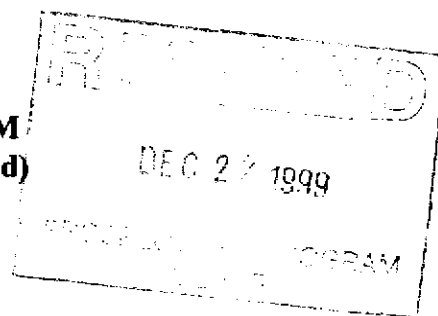
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New Contour Legend 1997

PROSPECTED 1999



**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 Ralph R. Keefe Reference Number P7 1999/2000

LOCATION/COMMODITIES

Project Area (as listed in Part A) CABIN MINFILE No. if applicable N/A
 Location of Project Area NTS 93 M 8/W Lat 55 25 Long 125 15
 Description of Location and Access New road construction of Houston Forest Products plus current logging N. W. of Morrison Lake.

Main Commodities Searched For Porphyry Cu, & Au

Known Mineral Occurrences in Project Area Morrison potential type ore bodies (Noranda and Booker Gold)

WORK PERFORMED

1. Conventional Prospecting (area) New road construction & logging to date
2. Geological Mapping (hectares/scale) As above
3. Geochemical (type and no. of samples) Nil required
4. Geophysical (type and line km) Nil required
5. Physical Work (type and amount) Nil required
6. Drilling (no. holes, size, depth in m, total m) Nil required
7. Other (specify) Nil required

SIGNIFICANT RESULTS Nil

Commodities _____ Claim Name _____
 Location (show on map) Lat _____ Long _____ Elevation _____
 Best assay/sample type _____

Description of mineralization, host rocks, anomalies

No new porphyry outcrops examined during prospecting. Considerable amount of sediments looked at in current logging N. of CABIN Lake plus extension of main haul road (1600) to N.W. Further Follow-up in 2000/2001 under O.G.D.P.

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*.

CADWIN PROJECT

N.T.S. 93M/W 99-05

SCALE 1:50000 P9.11

ROADS TO G.B.'S PROSPECTS 1999

608T026

001

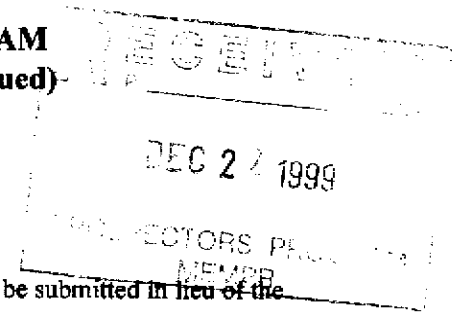


608T02

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**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 Ralph R. Keefe Reference Number P7 1999/2000

LOCATION/COMMODITIES

Project Area (as listed in Part A) BAR MINFILE No. if applicable N/A

Location of Project Area NTS 93 L 8/W Lat 54 30 Long 120 25

Description of Location and Access 4 x 4 Access along Hydro Line in addition to walking for approx. 3 km.

Main Commodities Searched For Barite

Known Mineral Occurrences in Project Area Cu, AG & Barite in volcanics

WORK PERFORMED

1. Conventional Prospecting (area) Prospecting for Economic Barite in Volcanics *— poor target*
2. Geological Mapping (hectares/scale) As above
3. Geochemical (type and no. of samples) Nil required
4. Geophysical (type and line km) Nil required
5. Physical Work (type and amount) Nil required
6. Drilling (no. holes, size, depth in m, total m) Nil required
7. Other (specify) Nil required

SIGNIFICANT RESULTS Nil

Commodities _____ Claim Name _____

Location (show on map) Lat _____ Long _____ Elevation _____

Best assay/sample type _____

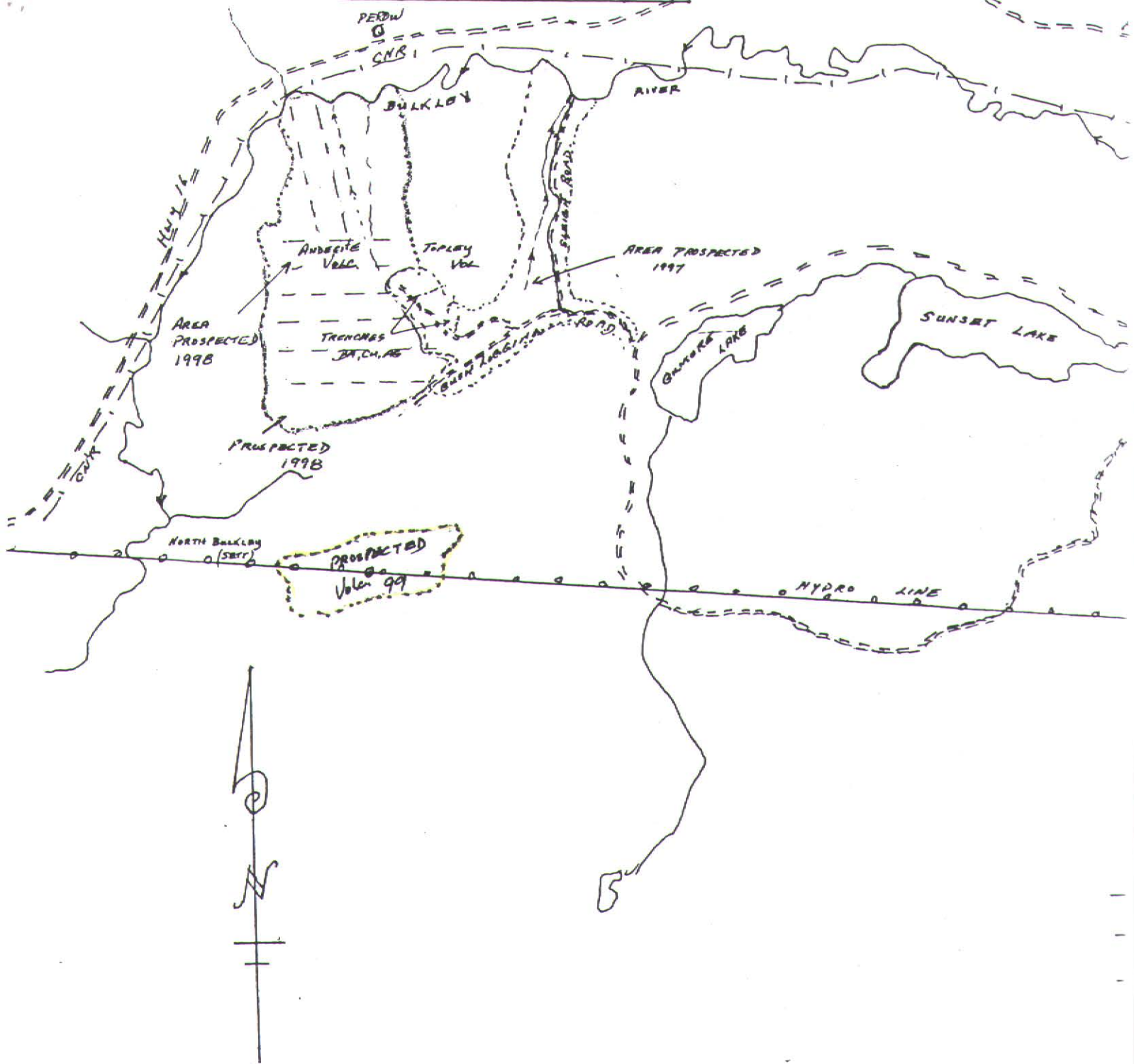
Description of mineralization, host rocks, anomalies _____

Have been unable to locate potential economic Barite veins in volcanics - this area. Further prospecting in area in 2000/2001 under O.G.D.P.

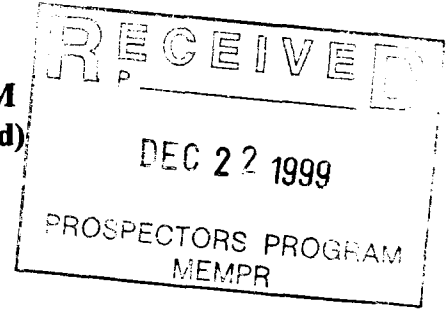
Supporting data must be submitted with this TECHNICAL REPORT

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

BAR PROJECT



**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 Ralph R. Keefe Reference Number P7 1999/2000

LOCATION/COMMODITIES

Project Area (as listed in Part A) PAM MINFILE No. if applicable 093E-088

Location of Project Area NTS 93 E/14/E Lat 53 51 Long 127 01

Description of Location and Access Approx. 104 km S. of Houston - Old Thatsa Rd. S. of Nadina Lake

Main Commodities Searched For Cu, Ag, Mo & Au Porphyry

Known Mineral Occurrences in Project Area Porphyry Cu, Mo & Au

WORK PERFORMED

1. Conventional Prospecting (area) Staked PAM M.C.'s #1 to 12 inclusive (Prospecting)
2. Geological Mapping (hectares/scale) As submitted
3. Geochemical (type and no. of samples) Total of 92 samples taken as follows - 19 rock & 73 soils
4. Geophysical (type and line km) Nil
5. Physical Work (type and amount) Nil
6. Drilling (no. holes, size, depth in m, total m) Nil
7. Other (specify) Nil

SIGNIFICANT RESULTS

Commodities Cu, Mo, Ag & Au Claim Name PAM #1 to 12 inclusive

Location (show on map) Lat 53 51 Long 127 01 Elevation _____

Best assay/sample type #64873 - 3.7 Mo, 153 Cu, 94Zn, 1161 AG & 2772 Au. #64871 - 4.32 Mo, 4060 Cu, 132 Zn, 3705 AG & 252 Au. # 64899 - 2.86 Mo, 350 Cu, 9166 Zn & 827 Au.

Description of mineralization, host rocks, anomalies (1) Mineralization - Porphyry Cu, Mo, Ag & Au

- (2) Host Rocks - Granodiorite stock plus intrusion into Andesitic Volcanics
 - (3) Anomalies - extent of the mineralization within the Potassic Zone has yet to be tested by DDH.
 - Several outcrops within the Phyllic Zone has turned up significant precious metals - not Ag
 - One float sample in the outer prophyllitic zone assayed 1161 AG & 2772 Au.
 - (4) Geo-Chemistry (Soils) - Two lines of soils spaced at approx 31 metres apart were taken. Results were disappointing. However on review of previous percussion drilling done in 1974 - overburden averaged between 55 to 60 ft. This could very well tell the story. Expect main potassic & phyllic zones to be logged this winter.
- **Request a confidentiality period for a minimum period of 2 years. Further project work contemplated for 2000/2001

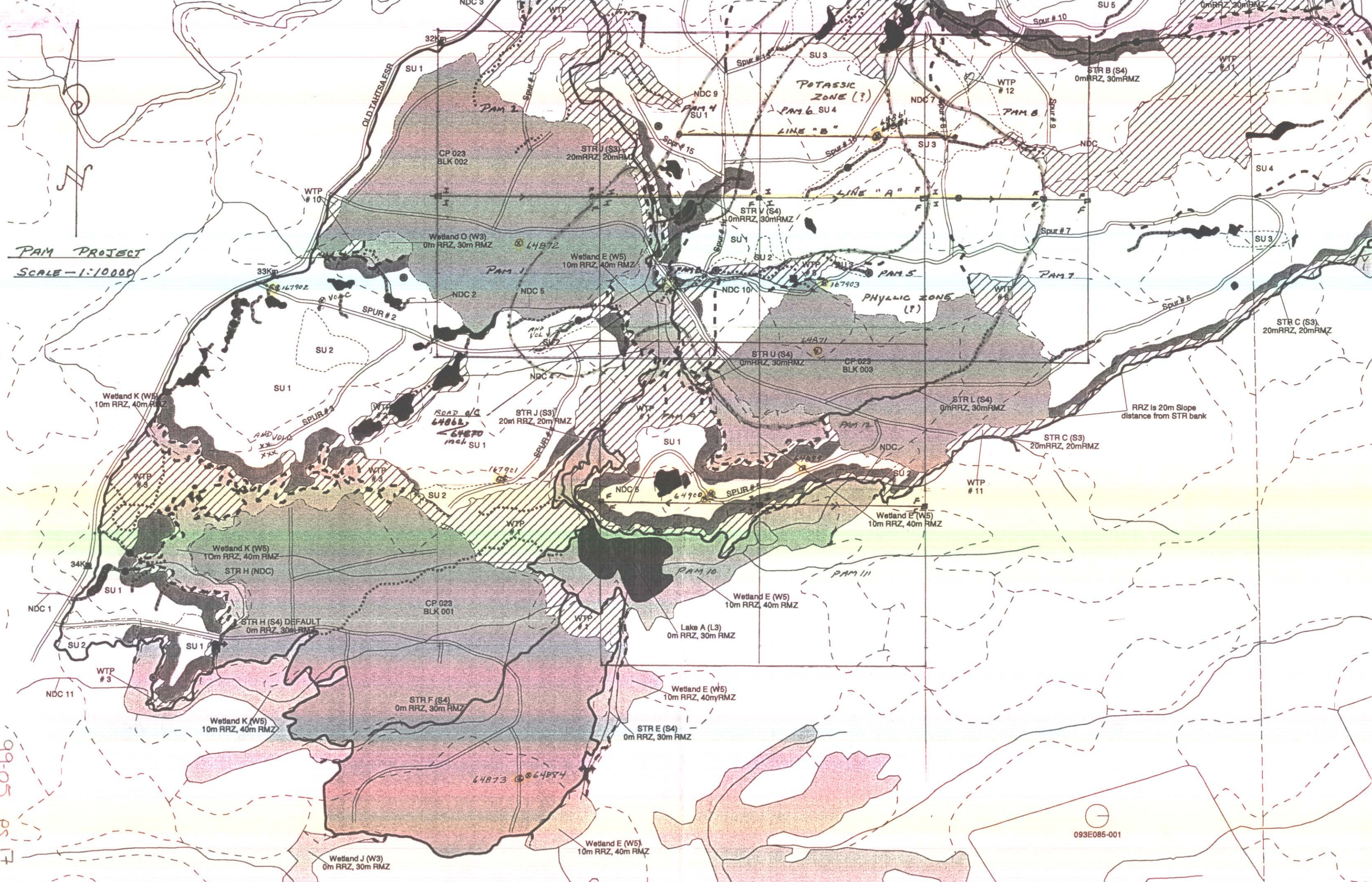
← good values in Au, Cu, Zn (anomalies)

Should have looked at perc dd his prior to soil sampling

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*.

PAM PROJECT
SCALE - 1:10000



99-05
PS 17

093E085-001



GEOCHEMICAL ANALYSIS CERTIFICATE



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT PAM File # 9902550 (a)
405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: R. Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti % ppm	B %	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
54861	4.84	10.21	2.36	48.4	59	6.9	4.8	310	9.11	5.2	<.1	38.3	2.2	650.5	.02	1.15	2.30	97	.07	.059	1.6	24.8	1.18	87.0	.037	1	1.70	.031	.31	1.4	.14	<5	1.1	1.40	7.0
54862	33.81	2877.28	3.11	57.1	720	22.2	38.3	278	5.43	6.0	.4	84.0	2.3	8.8	.29	.16	.29	46	.38	.047	11.9	14.8	.21	73.2	.008	4	.73	.036	.27	3.9	.14	7	2.5	.13	2.3
54863	37.33	1783.80	5.07	61.8	555	20.5	25.4	229	5.86	101.2	.4	59.0	2.6	11.9	.27	.62	.23	51	1.08	.051	4.8	19.9	.59	51.6	.026	4	.79	.032	.42	3.4	.20	71	3.8	.14	3.4
54864	41.08	1655.20	2.95	43.0	483	15.5	29.2	238	5.36	12.2	.3	78.7	3.0	13.7	.19	.20	.27	48	1.37	.044	6.6	17.2	.64	62.1	.035	2	.68	.037	.40	4.2	.16	15	2.4	.26	2.9
54865	31.29	1781.82	2.85	62.2	517	20.8	26.4	242	4.95	2.1	.4	86.2	3.4	10.0	.31	.11	.21	64	.86	.056	8.5	29.4	.75	80.1	.080	2	1.03	.055	.57	3.9	.23	14	2.7	.13	5.4
54866	72.17	1949.26	4.79	37.9	922	12.7	22.9	95	5.57	13.6	.3	109.7	2.7	4.6	.18	.33	.53	23	.16	.045	5.0	15.8	.15	46.4	.007	2	.58	.027	.29	6.3	.14	16	4.0	.21	1.6
54867	26.07	1470.81	4.79	47.1	632	20.0	31.4	121	6.72	41.6	.3	74.5	2.3	10.3	.13	.51	.41	32	1.01	.044	3.5	20.0	.37	33.0	.012	4	.56	.026	.34	4.8	.15	34	4.1	.26	2.0
54868	1126.35	87.40	7.67	29.3	93	7.4	6.6	267	2.89	12.8	.7	11.1	1.1	23.1	1.40	1.88	.11	7	1.09	.151	40.0	31.4	.05	124.6	.001	1	.12	.006	.06	21.2	.07	72	1.2	.10	4.4
54869	77.93	2604.46	3.57	46.9	972	18.1	24.5	160	5.02	15.6	.4	184.6	2.9	6.7	.24	.39	.63	33	.57	.042	5.1	21.8	.27	71.2	.005	4	.65	.036	.31	5.5	.19	15	3.4	.27	2.2
54870	48.55	1562.33	3.13	62.6	444	18.2	24.0	254	4.60	3.4	.4	96.5	3.1	13.3	.31	.31	.23	61	1.26	.057	6.9	25.1	.68	66.4	.087	2	1.00	.044	.60	5.1	.27	13	2.4	.12	5.0
RE 64870	48.56	1553.96	3.25	62.2	449	18.5	24.7	254	4.59	3.6	.4	105.7	3.2	15.4	.33	.32	.23	62	1.25	.057	7.6	28.3	.71	86.7	.093	2	1.07	.048	.61	5.4	.27	15	2.5	.12	5.2
54871	4.32	4060.05	5.04	132.0	3705	19.5	21.7	905	3.32	21.2	.6	251.8	2.6	12.7	.67	.32	21.09	36	1.30	.073	9.8	20.0	.13	181.5	.003	2	.67	.054	.23	4.0	.09	6	.6	11.92	2.3
54872	3.66	41.60	11.42	55.3	81	5.8	15.5	826	4.40	26.2	.1	3.5	.7	70.3	.11	1.42	1.00	38	2.12	.061	1.4	17.7	1.10	99.2	.105	2	3.94	.322	.35	6.3	.21	<5	.6	.26	8.9
54873	3.70	152.74	2.70	93.7	1161	22.4	19.5	1358	14.83	24.9	.3	2772.0	.7	9.3	.06	1.13	220.04	168	.33	.073	4.1	37.8	2.23	39.7	.115	1	3.00	.042	.06	1.3	.04	7	1.3	114.70	16.1
54874	2.96	158.20	4.56	58.4	117	2.6	3.8	252	3.43	6.2	.4	31.7	4.0	11.0	.45	1.80	1.68	11	.70	.121	19.6	15.3	.39	105.9	.005	1	.47	.032	.25	5.5	.11	8	.2	1.07	1.9
STANDARD	13.95	132.10	29.87	160.3	249	36.9	12.5	835	3.36	59.9	19.2	187.4	3.4	30.6	11.30	9.76	10.40	75	.58	.087	13.2	152.2	.52	131.8	.107	2	1.64	.037	.16	7.1	1.90	235	2.4	1.77	5.9

Standard is STANDARD DS2.

15 GRAM SAMPLE IS DIGESTED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 27 1999 DATE REPORT MAILED: *Aug 10/99* SIGNED BY: *C. Leong* TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT PAM File # 9902550

(b)

405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: R. Keefe



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
64861	1.87	.1	.02	13.1	6.6	1.1	.75	.6	2.43	4.2	.10	<1	6.8
64862	5.32	<.1	.05	12.6	6.2	.3	1.91	1.7	15.06	25.6	.07	24	4.8
64863	6.32	.1	.07	21.4	7.1	.5	2.74	1.8	6.51	10.5	.04	53	6.6
64864	3.41	.1	.07	18.9	5.8	.4	2.46	2.0	6.32	15.5	.03	74	2.4
64865	4.47	.1	.09	29.7	6.8	.6	2.20	2.1	7.56	18.4	.03	55	4.2
64866	3.03	<.1	.02	12.1	4.0	.3	2.86	2.0	3.16	11.1	.11	67	1.6
64867	3.57	.1	.04	15.6	4.1	.5	3.96	1.4	3.49	8.2	.04	41	1.9
64868	.40	<.1	.02	2.2	.9	.3	1.02	1.6	10.51	78.0	<.02	579	.5
64869	4.09	.1	.09	13.5	6.0	.4	2.66	1.5	3.99	11.5	.08	82	1.8
64870	4.44	.1	.10	30.4	6.9	.6	2.00	2.1	5.81	15.4	.04	43	3.4
RE 64870	4.87	.1	.12	33.6	7.5	.6	2.06	2.2	6.61	16.4	.04	47	3.4
64871	2.38	<.1	<.02	7.5	5.2	.4	1.15	2.6	13.42	20.1	.35	1	1.8
64872	3.16	.1	.10	15.1	3.9	.3	2.50	1.9	2.89	3.9	.02	<1	17.7
64873	.44	.6	.08	4.6	16.0	5.3	4.97	5.1	5.10	8.2	2.92	<1	10.0
64874	1.24	<.1	.02	9.7	2.5	.4	1.75	3.4	9.74	43.2	.03	<1	2.5
STANDARD DS2	3.06	<.1	1.91	14.8	2.9	23.4	.02	3.4	5.17	30.0	5.11	<1	13.5

15 GRAM SAMPLE IS DIGESTED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 27 1999

DATE REPORT MAILED: Aug 10/99

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD.
(ISO 9002 Accredited Co.)

852 E. HASTINGS ST. VANCOUVER BC V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716



Rock

GEOCHEMICAL ANALYSIS CERTIFICATE



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT PAM File # 9902879 (a)

405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: R. Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
64899	2.86	349.56	7.85	9165.7	468	13.8	19.1	787	6.34	318.6	<1	826.7	.5	9.4	55.46	4.09	2.40	45	.64	.040	5.4	34.6	.42	45.2	.004	<1	.75	.065	13	5.7	.37	80	8	.31	4.7
64900	6.01	85.49	10.56	231.0	465	13.1	12.5	2657	4.10	78.7	.1	23.5	.7	47.5	.62	1.22	2.48	84	4.01	.064	6.8	15.4	1.16	62.2	.001	3	.69	.037	20	1.8	.12	9	.2	.04	3.4
167901	3.27	16.93	11.23	75.8	146	14.3	18.6	687	4.93	7.3	.4	28.2	1.5	18.5	.23	1.14	1.44	58	1.42	.059	4.4	7.8	.41	96.1	.002	1	.85	.031	31	1.5	.07	19	1.2	.59	2.4
167902	2.38	22.32	9.64	79.2	332	11.9	13.0	570	3.74	35.4	.8	62.4	2.0	23.7	.29	.30	1.69	52	1.06	.089	13.1	12.5	.34	71.3	.003	1	.86	.027	27	1.1	.14	34	.2	1.22	2.8
167903	4.00	6.51	3.83	15.0	52	3.4	1.6	100	90	6.3	.2	5.0	.4	26.3	.04	2.73	2.61	16	.04	.010	1.1	9.4	.07	42.4	.008	<1	.87	.007	04	1.1	.04	156	4	.72	2.1
RE 167903	4.31	7.28	4.16	15.2	55	3.7	1.9	116	89	6.9	.3	3.2	.3	25.9	.05	2.98	2.82	16	.04	.010	1.1	9.4	.07	44.6	.007	1	.90	.009	04	1.0	.04	175	5	.77	2.1
STANDARD DS2	14.40	135.08	31.49	171.5	254	38.7	13.3	847	3.31	65.5	22.0	206.8	3.1	32.2	11.48	9.98	11.63	84	.57	.086	14.3	181.7	.64	151.6	.120	2	1.89	.040	.17	7.1	1.98	259	2.6	1.95	6.3

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.

- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 13 1999 DATE REPORT MAILED: *Aug 30/99* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT PAM File # 9902879 (b)

405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: R. Keefe

SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
64899	.94	.1	.03	5.6	7.0	1.5	3.31	2.0	5.34	12.0	5.38	<1	5.8
64900	4.84	<.1	<.02	6.9	9.9	.3	.34	1.0	10.36	14.7	.07	<1	5.2
167901	1.89	<.1	<.02	8.8	6.1	.2	2.14	3.1	5.52	9.5	.03	3	8.8
167902	.79	<.1	<.02	9.7	4.4	.4	1.82	6.8	12.83	23.2	.05	1	5.6
167903	.22	<.1	.02	1.4	.9	.2	.05	2.9	.83	2.5	<.02	<1	3.4
RE 167903	.23	<.1	<.02	1.4	1.0	.3	.05	2.9	.91	2.5	<.02	<1	3.3
STANDARD DS2	2.81	<.1	2.01	14.3	3.2	23.6	.02	4.2	5.71	31.9	5.97	<1	13.9

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER FOLLOWED BY ANALYSIS BY ICP/ES & MS. THIS LEACH IS PARTIAL FOR ALL ELEMENTS.

- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 13 1999 DATE REPORT MAILED: *Aug 30/99* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE



Soils

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT PAM File # 9902549
405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: R. Keefe

Page 1 (a)



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
L-A ON-0E	1.73	22.63	11.78	114.5	202.13	13.0	7.0	275.2	9.4	15.6	.3	9.3	.9	12.1	.19	.74	.47	57	.11	.065	4.6	17.3	.36	121.9	.032	1.2	.05	.011	.03	.3	.07	35	.4	.06	6.1
L-A ON-31E	2.20	45.62	10.57	138.2	243.15	15.3	8.9	328.3	27	16.7	.3	4.7	1.2	13.9	.23	.81	.28	61	.15	.094	5.2	22.0	.40	146.6	.025	1.2	.29	.010	.04	.2	.09	45	.4	.09	6.6
L-A ON-62E	2.19	26.83	11.58	121.9	218.11	11.2	8.7	523.3	96	24.0	.2	30.6	1.0	6.3	.25	.98	.29	78	.08	.168	2.9	22.9	.31	58.5	.039	1.2	.68	.009	.03	.2	.06	78	.4	.13	6.8
L-A ON-93E	2.32	22.10	14.36	128.6	305.14	14.0	7.3	288.2	95	11.1	.3	1.7	1.2	9.9	.12	.53	.20	60	.14	.064	3.1	22.0	.35	90.5	.051	1.2	.30	.011	.03	<.2	.07	31	.3	.05	6.4
L-A ON-124E	1.73	36.49	10.60	113.4	324.22	11.2	11.2	350.3	49	21.2	.4	8.1	1.3	12.2	.23	.92	.37	67	.15	.096	4.3	30.2	.61	108.6	.054	1.2	.40	.015	.05	<.2	.07	58	.4	.12	5.8
L-A ON-155E	2.58	45.76	13.51	162.4	456.18	10.7	10.7	376.4	30	29.6	.3	22.2	1.3	10.1	.23	1.05	.41	80	.12	.131	4.0	27.3	.49	93.5	.044	1.2	.70	.010	.05	.2	.09	61	.4	.14	7.3
L-A ON-186E	1.96	72.54	11.92	105.9	125.15	16.0	10.0	393.3	40	22.6	.4	7.8	1.7	7.3	.20	1.04	.22	64	.10	.100	4.0	22.3	.54	64.5	.050	1.2	.21	.011	.04	<.2	.08	56	.4	.10	4.7
L-A ON-217E	43.65	254.25	24.76	189.7	326.11	16.0	15.0	655.5	72	81.2	.3	29.8	1.2	7.6	.66	4.83	.49	90	.08	.180	4.0	23.5	.44	158.2	.039	1.2	.93	.010	.07	<.2	.18	165	1.0	.16	6.9
L-A ON-248E	29.14	240.69	12.04	172.5	409.16	10.4	14.9	244.4	68	42.8	.3	33.2	1.4	6.7	.41	2.30	.43	81	.07	.144	3.8	25.7	.43	121.1	.038	1.2	.57	.012	.04	<.2	.13	116	.7	.16	5.9
L-A ON-279E	1.36	21.42	8.28	102.2	191.10	10.4	4.7	163.1	96	10.9	.3	15.6	.7	22.5	.18	.45	.30	41	.27	.023	4.5	17.4	.35	101.2	.021	<1	1.31	.012	.03	<.2	.07	22	.2	.06	4.7
L-A ON-310E	1.44	19.38	10.52	143.0	344.9	6.0	6.0	183.2	95	14.2	.3	11.4	1.0	8.5	.28	.60	.27	60	.10	.109	4.0	21.9	.27	88.2	.029	1.2	.16	.013	.03	<.2	.08	58	.3	.07	6.1
L-A ON-340E	1.54	17.60	12.62	72.6	267.6	8.3	3.8	145.2	59	13.0	.2	12.3	.7	18.6	.29	.61	.37	55	.24	.117	3.9	17.0	.20	89.0	.022	1.1	.29	.010	.04	.2	.07	48	.3	.08	6.0
L-A ON-372E	2.24	32.60	13.28	131.2	522.10	10.2	6.6	211.4	23	26.9	.3	28.2	1.1	10.2	.35	.97	.38	77	.11	.196	4.2	24.0	.27	68.4	.026	1.2	.27	.010	.03	<.2	.07	97	.4	.15	7.0
L-A ON-403E	1.71	16.48	13.44	67.8	278.5	4.3	3.6	254.2	08	8.1	.2	33.1	.9	16.7	.25	.51	.25	51	.19	.061	6.3	15.3	.16	125.2	.025	1.1	.18	.013	.04	<.2	.08	40	.2	.06	6.0
L-A ON-434E	.68	15.78	4.83	66.0	68.8	5.4	4.7	253.1	67	3.6	.3	7.7	.6	17.1	.14	.35	.14	37	.23	.016	4.4	16.9	.46	73.6	.038	1.1	.16	.015	.03	<.2	.06	16	.2	.02	3.9
L-A ON-465E	1.99	53.63	11.52	173.9	171.16	16.6	9.1	391.2	79	24.7	.5	56.9	.6	28.5	.28	.77	.44	56	.36	.050	8.1	21.2	.47	207.1	.026	1.2	.00	.016	.05	<.2	.11	44	.5	.09	5.9
L-A ON-496E	2.82	47.08	19.37	178.2	280.18	10.8	10.8	1574.3	18	18.0	.6	17.7	.5	41.9	.67	.73	.37	63	.62	.056	7.9	26.0	.63	173.4	.022	1.1	.98	.016	.05	<.2	.14	42	.5	.11	6.3
L-A ON-527E	4.85	144.30	17.85	207.0	1244.33	9.15	15.1	1243.4	72	36.7	1.5	11.0	.9	98.7	1.47	1.64	.95	73	1.46	.131	17.4	33.6	.75	346.9	.014	2.3	.05	.016	.10	.4	.21	140	.7	.28	8.7
L-A ON-558E	2.98	63.72	12.95	188.5	271.24	16.0	12.5	627.3	88	33.2	.6	31.4	.7	44.6	.44	.96	.61	70	.64	.052	8.7	31.5	.71	176.4	.022	1.2	.19	.014	.07	<.2	.13	38	.3	.23	7.2
L-A ON-589E	2.47	45.38	13.60	147.2	325.20	10.3	8.6	240.3	63	36.8	.4	48.2	.9	23.1	.27	1.07	.55	65	.28	.061	5.1	30.7	.50	139.2	.030	1.2	.08	.013	.04	<.2	.10	42	.4	.19	6.7
L-A ON-620E	2.31	60.36	12.75	170.6	210.18	10.9	13.5	500.3	25	20.6	.5	46.8	.5	31.7	.25	.86	.53	63	.42	.062	7.0	26.5	.65	150.5	.025	1.2	.18	.015	.05	<.2	.12	34	.5	.15	6.5
RE L-A ON-186E	1.95	70.63	12.15	104.3	118.15	15.6	9.8	386.3	32	21.7	.4	28.5	1.7	7.7	.20	1.03	.23	63	.10	.095	4.0	25.3	.58	69.5	.053	1.2	.35	.011	.03	<.2	.08	52	.4	.09	4.7
L-A ON-651E	4.07	81.20	17.56	149.0	314.22	17.4	17.4	958.3	56	31.3	.6	25.9	.6	53.8	.61	1.08	.67	66	.82	.064	9.8	24.3	.55	185.2	.026	1.2	.22	.015	.06	<.2	.11	60	.4	.19	7.2
L-A ON-682E	3.51	37.09	13.46	144.6	638.17	10.3	9.3	262.4	42	28.6	.3	33.3	.8	15.5	.48	1.14	.47	77	.26	.129	4.3	28.7	.45	104.5	.047	1.2	.36	.011	.05	<.2	.09	72	.5	.19	7.2
L-A ON-713E	7.07	120.86	13.48	150.2	428.23	14.1	14.1	1010.3	91	23.8	.9	294.7	.8	36.1	.43	1.00	.55	75	.56	.057	12.5	30.1	.74	197.1	.026	1.2	.61	.019	.08	<.2	.18	56	.4	.16	8.1
L-A ON-744E	8.04	124.40	12.99	168.1	435.23	12.1	12.1	949.3	68	23.9	1.0	16.3	.9	36.3	.47	.89	.55	66	.52	.056	12.9	29.6	.68	202.2	.024	1.2	.53	.016	.07	<.2	.16	54	.4	.16	7.1
L-A ON-775E	5.17	58.47	7.41	91.9	244.14	14.4	7.0	431.2	54	12.8	.5	31.2	.6	20.8	.18	.65	.37	55	.29	.031	6.8	24.5	.63	116.3	.028	1.1	.79	.018	.05	<.2	.14	30	.3	.09	5.9
L-A ON-806E	11.77	220.98	19.53	216.6	877.41	17.3	23.1	2818.4	99	27.5	1.4	12.6	1.4	46.7	.90	1.08	.54	77	.85	.131	14.4	43.8	.97	359.9	.009	1.4	.24	.015	.14	<.2	.32	137	.8	.19	11.3
L-A ON-837E	2.36	32.86	11.13	45.6	192.7	2.3	3.8	119.2	41	35.4	.3	28.3	.4	14.6	.24	.78	.44	63	.15	.035	5.2	17.9	.20	108.4	.037	1.1	.04	.011	.06	<.2	.07	33	.2	.15	5.7
L-A ON-868E	8.46	83.30	11.84	92.1	277.13	13.7	8.4	495.2	65	12.2	.5	7.8	.8	18.5	.24	.58	.28	55	.29	.031	5.9	23.2	.52	106.0	.018	1.1	.73	.016	.04	<.2	.10	31	.3	.08	5.6
L-A ON-899E	16.13	76.41	9.48	126.1	172.12	12.4	8.8	658.3	08	15.2	.3	20.4	.5	23.0	.50	.82	.30	68	.37	.044	4.7	24.1	.46	141.9	.026	1.1	.47	.015	.05	<.2	.08	27	.3	.10	6.1
L-A ON-930E	6.39	105.89	15.24	117.8	253.15	15.0	10.1	516.3	29	21.5	1.0	10.8	.9	32.0	.49	.82	.37	65	.36	.052	15.4	21.7	.43	179.2	.017	1.2	.04	.014	.05	<.2	.09	52	.3	.13	6.4
L-A ON-961E	1.94	28.02	9.78	123.8	175.10	10.8	5.8	294.3	07	12.9	.3	69.5	.7	16.8	.39	.67	.27	57	.29	.095	3.6	20.6	.33	88.7	.020	1.1	.72	.011	.06	<.2	.06	65	.3	.09	6.4
L-A ON-992E	1.99	38.31	12.27	81.8	141.14	14.2	8.9	520.3	33	20.2	.2	85.8	1.1	8.9	.28	1.15	.31	67	.11	.035	3.8	21.9	.44	83.3	.038	1.1	.53	.014	.03	<.2	.08	25	.3	.13	4.8
STANDARD DS2	14.40	130.68	28.86	158.6	250.36	12.2	12.2	821.3	24	61.4	20.8	189.3	3.5	33.2	11.39	9.86	10.83	76	.57	.086	13.7	163.3	.57	140.7	.111	2.1	.77	.039	.16	7.3	1.92	242	2.5	1.82	6.0

15 GRAM SAMPLE IS DIGESTED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 27 1999 DATE REPORT MAILED: *Aug 10/99* SIGNED BY: *C. Long* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
L-A ON-1023E	2.13	48.32	11.84	180.1	303	21.6	11.2	1109	3.83	17.4	.7	8.0	.8	36.7	.44	.99	.41	70	.47	.064	11.7	28.6	.65	197.3	.021	2	2.42	.016	.06	<.2	.15	46	.3	.12	8.1
L-A ON-1054E	1.99	33.55	10.46	98.4	194	15.3	8.0	498	2.72	12.4	.5	15.4	.7	24.4	.27	.72	.28	56	.29	.038	7.6	22.4	.57	129.1	.035	1	1.68	.022	.05	<.2	.10	38	.4	.08	5.5
L-A ON-1085E	1.72	30.54	13.51	104.2	220	12.9	8.2	385	3.09	15.7	.3	8.9	.8	21.1	.32	.85	.29	65	.23	.046	7.6	23.4	.37	157.2	.020	1	1.98	.016	.05	<.2	.09	49	.4	.09	6.7
L-A ON-1116E	1.36	27.66	13.93	150.0	151	16.2	10.9	348	3.53	18.2	.3	14.6	.9	14.2	.42	.96	.22	70	.20	.086	3.8	27.9	.51	146.2	.033	1	2.06	.014	.05	<.2	.08	54	.2	.09	5.9
L-A ON-1147E	1.79	39.63	16.12	136.1	273	16.4	10.8	762	3.28	21.9	.8	21.1	.9	30.7	.30	.64	.35	74	.34	.042	11.1	26.2	.56	168.8	.032	1	2.13	.018	.06	<.2	.12	44	.3	.09	6.9
L-A ON-1178E	1.81	29.52	16.76	109.0	206	13.8	9.0	563	3.56	24.1	.2	13.1	.8	9.9	.36	1.12	.28	74	.12	.075	3.8	26.9	.48	66.2	.031	1	1.52	.015	.05	<.2	.07	20	.1	.11	5.8
L-A ON-1209E	1.55	28.44	11.50	87.6	182	12.5	7.5	612	2.59	10.5	.4	9.2	.5	21.0	.26	.61	.25	56	.24	.037	8.4	22.5	.48	123.4	.022	1	1.69	.016	.04	<.2	.09	28	.2	.07	5.5
L-A ON-1240E	2.03	28.10	17.65	90.5	188	11.6	7.8	362	3.28	21.2	.3	18.7	.4	32.6	.31	1.09	.29	75	.27	.042	4.6	22.5	.31	140.6	.032	1	1.25	.015	.06	<.2	.09	35	.2	.12	6.0
L-A ON-1271E	1.90	22.55	16.76	119.0	192	13.9	10.8	769	3.87	18.7	.2	9.8	.6	9.8	.42	.97	.36	79	.14	.142	3.9	26.3	.43	101.0	.030	1	1.75	.013	.04	.2	.10	30	.2	.11	6.4
L-A ON-1302E	2.09	52.89	23.04	162.7	618	24.9	15.2	405	3.88	38.1	.3	19.0	.8	13.1	.59	1.34	.34	70	.18	.085	4.4	31.4	.64	106.9	.032	2	2.60	.014	.05	<.2	.09	76	.4	.14	5.7
L-A ON-1333E	1.80	29.67	14.84	126.3	232	16.7	10.0	554	3.75	20.6	.3	5.9	.8	14.3	.33	1.12	.31	79	.16	.056	5.0	27.9	.51	96.2	.028	1	1.90	.015	.05	<.2	.08	38	.2	.12	6.7
L-A ON-1364E	1.49	23.71	15.02	114.9	335	13.9	8.9	595	3.64	18.3	.3	39.8	.4	11.2	.59	.87	.36	78	.15	.090	4.5	27.1	.39	102.4	.033	1	1.65	.014	.04	<.2	.08	45	.2	.13	6.6
L-A ON-1395E	1.59	154.87	28.02	535.7	1095	45.6	22.0	1769	5.15	40.2	1.8	101.9	1.0	62.6	2.39	1.68	1.69	90	1.07	.082	14.3	61.3	1.07	269.7	.037	1	3.02	.016	.16	<.2	.25	95	.6	.69	8.2
L-B 190N-217E	1.73	29.69	19.12	300.0	245	17.2	13.0	470	4.49	28.5	.3	7.5	1.4	16.4	.46	1.22	.56	79	.22	.164	5.0	34.1	.50	118.3	.038	1	2.86	.012	.06	.4	.14	62	.2	.17	9.2
L-B 190N-248E	1.79	17.88	13.49	146.0	220	12.0	7.0	246	4.55	20.8	.2	21.3	1.0	12.0	.22	1.05	.45	108	.14	.066	4.4	27.3	.38	85.8	.057	1	1.73	.013	.05	.2	.09	55	.1	.17	10.1
L-B 190N-279E	1.38	29.96	9.60	136.3	160	21.5	9.5	325	3.59	13.1	.3	8.2	.7	18.8	.22	.89	.40	73	.23	.050	5.1	55.7	.90	133.9	.058	1	2.22	.014	.07	<.2	.10	32	.1	.11	7.3
L-B 190N-309E	1.48	30.85	14.07	182.7	108	23.1	10.2	272	3.99	20.6	.3	8.4	1.2	14.0	.20	.89	.41	77	.17	.101	4.3	29.8	.49	113.9	.032	1	2.90	.013	.05	<.2	.10	50	.1	.12	8.3
L-B 190N-340E	.57	13.66	7.28	78.7	164	7.1	4.5	241	1.52	3.0	.2	26.4	.7	13.4	.10	.36	.25	35	.17	.030	5.2	12.3	.29	70.2	.039	1	1.18	.015	.04	<.2	.08	33	.1	.03	4.2
L-B 190N-372E	.94	19.14	10.67	134.8	123	12.6	8.7	319	2.63	9.4	.3	12.6	.7	15.4	.24	.59	.32	55	.19	.044	5.4	20.3	.41	104.8	.034	1	1.61	.017	.04	<.2	.08	23	.1	.06	5.4
L-B 190N-403E	.97	11.14	7.77	57.6	106	5.3	2.9	116	1.80	5.0	.2	24.5	.7	12.1	.13	.42	.19	46	.15	.025	4.0	11.3	.18	63.0	.041	1	.82	.013	.03	<.2	.05	18	<.1	.04	4.3
L-B 190N-434E	1.54	32.50	13.22	150.1	251	18.9	10.9	396	3.02	14.8	.4	40.5	1.3	15.5	.23	.81	.28	59	.21	.067	6.0	22.5	.46	128.8	.033	1	2.48	.014	.05	<.2	.10	52	.2	.08	5.9
RE L-B 190N-434E	1.54	31.71	13.29	146.8	252	18.2	10.5	375	2.88	14.6	.4	10.9	1.3	16.1	.22	.80	.28	57	.21	.063	6.0	23.0	.46	129.7	.042	1	2.52	.015	.05	<.2	.10	54	.2	.07	6.0
L-B 190N-465E	2.24	43.25	17.28	164.2	328	16.1	14.1	1153	2.95	14.6	.6	11.5	.7	37.0	.27	.60	.49	65	.42	.064	10.0	22.5	.52	193.4	.024	1	2.45	.017	.06	<.2	.13	36	.1	.11	7.3
L-B 190N-496E	3.03	81.29	22.07	209.7	606	28.1	17.4	1017	4.25	27.5	1.7	6.3	1.6	56.9	.70	.70	.68	87	1.02	.075	18.4	40.1	.72	329.5	.018	1	3.30	.016	.08	<.2	.15	73	.3	.16	10.1
L-B 190N-527E	5.09	149.11	26.92	269.8	1226	45.2	18.8	1597	5.38	34.9	3.7	9.6	2.3	95.3	1.22	.85	.70	92	1.12	.097	36.6	46.6	.92	454.3	.012	1	4.35	.017	.12	.3	.22	114	1.8	.20	11.8
L-B 190N-558E	1.15	26.04	10.83	114.7	246	14.6	7.4	350	2.47	9.9	.3	17.3	.4	22.8	.22	.59	.33	50	.27	.048	6.8	20.4	.52	120.0	.029	1	1.84	.018	.05	<.2	.10	26	.2	.06	5.7
L-B 190N-589E	1.54	21.24	10.01	94.8	362	12.0	6.1	270	2.38	10.4	.2	763.2	.9	17.5	.28	.60	.30	51	.22	.059	5.0	22.3	.52	88.1	.039	1	1.49	.016	.05	<.2	.08	29	.1	.08	6.1
L-B 190N-620E	2.05	30.10	9.26	109.5	140	14.3	8.8	454	2.58	11.1	.3	20.8	.9	17.5	.18	.59	.33	57	.20	.037	5.7	24.2	.62	96.0	.044	1	1.74	.019	.05	<.2	.10	18	.1	.09	6.0
L-B 190N-651E	2.09	44.11	10.07	119.3	276	18.1	7.7	324	2.66	13.8	.4	577.4	1.1	21.6	.22	.72	.49	54	.24	.040	6.1	26.0	.61	127.9	.029	1	2.20	.017	.06	<.2	.12	45	.2	.11	6.7
L-B 190N-682E	1.10	21.37	8.13	82.0	81	11.3	5.4	225	1.87	5.9	.3	17.2	.7	15.4	.16	.41	.33	43	.16	.026	5.1	19.4	.50	68.7	.036	1	1.43	.015	.03	<.2	.08	20	<.1	.05	5.8
L-B 190N-713E	.81	13.19	8.77	65.0	66	10.8	4.8	229	1.77	6.8	.3	23.3	.8	18.8	.07	.39	.24	44	.24	.033	5.1	19.1	.49	70.1	.050	1	1.25	.020	.03	<.2	.07	21	.1	.03	4.6
L-B 190N-744E	5.72	78.32	22.83	159.5	309	25.6	12.1	750	5.81	35.6	1.9	7.4	1.8	84.3	.28	.75	.55	104	.78	.074	21.3	36.9	.64	297.4	.015	<1	3.08	.015	.09	<.2	.15	81	.4	.16	9.7
L-B 190N-775E	2.27	29.40	13.39	88.6	299	13.1	12.1	663	2.41	11.0	.5	10.4	.9	37.4	.26	.50	.44	57	.41	.038	8.8	18.6	.46	176.6	.021	<1	2.01	.016	.05	<.2	.13	43	.3	.07	7.0
L-B 190N-806E	1.79	47.98	17.08	120.8	322	15.2	11.3	1345	4.78	26.2	.2	32.9	1.2	7.6	.24	1.03	.96	77	.08	.173	3.5	25.4	.40	95.8	.030	1	2.30	.009	.06	<.2	.11	114	.3	.35	7.3
STANDARD DS2	13.95	128.18	29.14	158.1	250	35.8	12.2	816	3.22	61.2	19.7	189.8	3.4	33.2	11.10	9.54	10.80	74	.57	.085	13.5	154.4	.54	135.0	.110	2	1.69	.038	.16	7.2	1.97	237	2.4	1.82	6.1

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
L-B 190N-837E	1.11	20.95	7.16	72.7	50	9.5	6.3	251	2.03	5.6	.3	12.4	9	17.3	.13	.50	.18	44	.17	.016	5.5	15.7	.44	116.0	.049	1	1.61	.023	.03	<.2	.08	21	.2	.04	5.2
L-B 190N-868E	1.35	25.08	10.76	88.9	253	14.7	6.6	205	2.26	10.5	.4	7.3	1.0	14.1	.11	.56	.26	48	.12	.045	6.1	23.0	.40	124.5	.022	1	2.55	.013	.04	<.2	.09	71	.5	.05	7.3
L-B 190N-930E	1.09	12.72	10.81	63.6	197	7.9	4.9	230	2.58	11.0	.3	14.9	5	10.4	.16	.65	.22	58	.09	.027	4.1	15.9	.23	76.4	.028	1	1.20	.014	.04	<.2	.07	35	.2	.07	4.8
L-B 190N-961E	2.30	26.57	12.86	108.6	248	11.8	5.5	162	3.25	17.6	.4	8.6	4	20.0	.27	.71	.31	70	.19	.043	4.3	20.9	.37	176.5	.021	2	1.83	.011	.05	<.2	.07	59	.3	.10	7.0
L-B 190N-992E	3.53	16.56	15.03	111.6	164	9.6	6.0	206	3.91	26.5	.2	75.9	5	8.8	.26	1.27	.47	106	.11	.062	3.1	25.7	.28	80.1	.063	1	1.20	.013	.03	<.2	.08	36	.2	.18	7.8
L-B 190N-1023E	1.95	31.71	15.22	184.5	213	19.8	9.9	343	4.46	36.6	.2	14.4	9	8.8	.41	1.19	.33	84	.13	.085	3.4	28.4	.58	105.1	.037	1	2.12	.012	.04	<.2	.10	32	.2	.14	6.7
L-B 190N-1054E	2.06	13.54	18.43	90.4	249	10.3	6.9	251	3.78	26.9	.2	42.2	7	12.2	.40	1.19	.40	104	.13	.049	4.1	30.8	.30	79.5	.057	1	1.13	.014	.04	<.2	.07	21	.2	.14	8.3
RE L-B 190N-1054E	1.95	13.14	17.84	83.8	234	10.7	6.7	246	3.75	25.6	.2	14.2	6	11.6	.42	1.20	.41	99	.13	.048	3.9	30.3	.30	80.4	.081	1	1.18	.018	.05	.3	.08	29	.2	.12	7.6
STANDARD DS2	13.61	128.39	29.50	158.7	261	35.5	12.6	821	3.25	61.1	20.4	194.0	3.3	33.2	11.83	9.82	10.65	74	.57	.086	13.5	159.0	.55	137.3	.111	2	1.72	.037	.16	7.3	1.99	233	2.6	1.83	6.0

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
L-A ON-0E	2.21	<.1	1.33	7.4	2.7	.6	.01	2.3	3.45	9.7	.05	<1	12.1
L-A ON-31E	2.38	<.1	1.07	8.0	3.5	.5	.01	2.2	3.99	13.5	.05	<1	15.4
L-A ON-62E	2.12	<.1	1.48	7.5	2.9	.5	<.01	2.3	1.28	6.7	.06	<1	14.1
L-A ON-93E	1.95	<.1	1.88	5.6	3.2	.7	<.01	6.1	1.92	7.4	.04	<1	11.2
L-A ON-124E	2.41	<.1	.98	9.5	3.9	.4	<.01	4.2	2.80	12.8	.05	<1	10.8
L-A ON-155E	3.06	<.1	1.21	11.5	3.7	.6	.01	2.4	1.96	10.2	.08	<1	15.8
L-A ON-186E	2.19	<.1	.35	6.4	4.8	.3	<.01	6.2	2.57	18.7	.05	<1	8.7
L-A ON-217E	6.77	<.1	1.53	12.3	6.7	.8	.04	4.2	1.52	10.5	.07	<1	23.5
L-A ON-248E	6.75	<.1	.53	12.1	5.5	.4	<.01	2.9	1.54	9.5	.06	<1	18.6
L-A ON-279E	1.81	<.1	.80	6.8	2.3	.4	<.01	.7	2.45	9.2	.04	<1	10.3
L-A ON-310E	2.15	<.1	.84	7.9	2.8	.4	<.01	2.5	1.37	9.1	.05	<1	11.3
L-A ON-340E	1.60	<.1	.69	6.2	1.9	.5	.02	.7	1.38	8.8	.03	<1	8.6
L-A ON-372E	2.19	<.1	.83	6.3	3.2	.5	<.01	1.9	2.54	9.4	.10	<1	13.1
L-A ON-403E	2.60	<.1	.75	9.3	1.9	.6	<.01	.4	2.21	13.6	.03	<1	7.3
L-A ON-434E	1.98	<.1	.37	6.5	2.6	.3	<.01	.5	2.24	9.8	.03	<1	8.3
L-A ON-465E	3.20	<.1	1.03	8.1	4.1	.5	.01	.4	6.00	18.9	.05	<1	13.3
L-A ON-496E	3.53	<.1	1.14	10.2	3.8	.4	.02	.6	6.06	19.7	.06	<1	16.2
L-A ON-527E	4.49	<.1	2.12	17.4	8.1	1.0	.09	2.6	17.28	29.3	.14	8	13.8
L-A ON-558E	3.79	<.1	1.16	18.6	4.7	.6	.03	.8	7.04	17.0	.08	<1	17.5
L-A ON-589E	2.36	<.1	.81	9.8	3.4	.5	.01	.6	2.86	12.5	.07	<1	13.6
L-A ON-620E	3.70	<.1	.63	13.9	4.1	.5	<.01	.3	4.42	16.3	.06	<1	14.9
RE L-A ON-186E	2.10	<.1	.39	6.4	4.9	.3	<.01	6.7	2.57	19.4	.06	<1	8.6
L-A ON-651E	2.96	<.1	1.10	13.2	4.7	.5	.05	1.6	8.93	19.3	.08	<1	12.5
L-A ON-682E	2.27	<.1	1.78	11.1	3.4	.5	.02	1.3	2.14	9.9	.07	<1	16.0
L-A ON-713E	4.77	<.1	.99	16.3	6.2	.6	.02	.7	9.17	23.4	.07	<1	16.6
L-A ON-744E	4.43	<.1	1.10	14.9	6.1	.6	.01	.8	10.11	24.9	.06	<1	15.6
L-A ON-775E	3.32	<.1	.44	13.6	4.0	.4	.02	.3	3.52	14.7	.04	<1	14.1
L-A ON-806E	6.14	<.1	1.04	19.3	10.3	.7	.07	3.9	12.54	35.7	.10	<1	23.4
L-A ON-837E	1.03	<.1	.56	12.4	2.0	.5	.02	.3	1.85	11.3	.03	<1	3.5
L-A ON-868E	3.20	<.1	.55	11.1	3.4	.4	.01	.6	3.53	12.4	.04	<1	14.1
L-A ON-899E	2.32	<.1	.48	12.8	3.0	.4	.01	.2	2.36	10.9	.04	<1	12.9
L-A ON-930E	2.69	<.1	.68	10.6	5.3	.5	.01	.6	10.41	29.0	.05	<1	11.9
L-A ON-961E	2.13	<.1	1.42	8.7	2.7	.5	.02	.7	1.12	10.0	.05	<1	15.6
L-A ON-992E	1.68	<.1	.50	7.0	3.1	.3	<.01	1.8	1.53	12.5	.04	<1	9.9
STANDARD DS2	3.40	<.1	1.78	14.4	3.2	22.9	.01	3.4	5.18	29.6	5.50	<1	12.6

15 GRAM SAMPLE IS DIGESTED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
 - SAMPLE TYPE: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 27 1999 DATE REPORT MAILED: *Aug 10/99* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only. Data *h* FA



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
L-A ON-1023E	4.84	<.1	1.14	10.8	5.9	.8	.05	1.1	8.99	32.8	.07	<1	19.5
L-A ON-1054E	3.22	<.1	.65	8.6	4.0	.5	.02	.6	4.33	17.9	.04	<1	13.1
L-A ON-1085E	2.98	<.1	.59	10.9	3.5	.5	.03	.8	4.23	18.1	.05	<1	12.0
L-A ON-1116E	2.81	<.1	.70	7.2	3.2	.4	.03	1.5	1.45	10.5	.05	<1	15.6
L-A ON-1147E	3.72	<.1	.98	9.5	5.1	.6	.03	.6	7.75	22.7	.05	<1	16.4
L-A ON-1178E	1.98	<.1	.40	8.8	3.1	.4	.01	.8	1.12	9.4	.04	<1	10.9
L-A ON-1209E	3.37	<.1	.63	10.0	3.3	.4	.02	.4	4.63	18.4	.04	<1	11.5
L-A ON-1240E	2.41	<.1	.52	19.1	2.8	.4	.03	.4	1.38	11.2	.04	<1	7.1
L-A ON-1271E	2.93	<.1	.55	9.6	3.0	.3	.01	.6	1.26	9.3	.05	<1	15.0
L-A ON-1302E	3.80	<.1	.79	9.7	3.5	.4	.02	1.4	1.91	12.3	.06	<1	13.8
L-A ON-1333E	2.97	<.1	.58	9.8	3.5	.5	.01	2.4	1.66	12.4	.05	<1	16.3
L-A ON-1364E	3.34	<.1	.77	10.4	2.5	.4	.02	.3	1.25	10.6	.05	<1	12.9
L-A ON-1395E	8.83	<.1	1.03	27.6	12.2	.6	.05	2.0	16.59	25.9	.20	2	26.1
L-B 190N-217E	4.29	<.1	2.35	12.8	4.1	.6	.01	2.6	1.47	10.7	.08	<1	25.7
L-B 190N-248E	4.89	<.1	1.39	10.7	2.8	.8	.01	1.6	.93	10.1	.05	<1	17.5
L-B 190N-279E	4.15	<.1	.86	11.0	5.2	.6	.03	.6	2.13	11.5	.04	<1	17.0
L-B 190N-309E	3.33	<.1	1.32	11.3	4.0	.6	.02	3.0	1.83	11.1	.08	<1	20.9
L-B 190N-340E	2.85	<.1	.62	11.9	2.1	.4	<.01	.4	1.69	12.8	.03	<1	9.2
L-B 190N-372E	3.02	<.1	.57	12.2	2.7	.5	<.01	.5	2.09	12.7	.04	<1	14.3
L-B 190N-403E	1.87	<.1	.81	8.4	1.8	.5	<.01	.9	.85	8.8	.02	<1	6.9
L-B 190N-434E	3.02	<.1	.92	12.8	3.6	.4	<.01	2.8	3.24	15.2	.05	<1	13.0
RE L-B 190N-434E	3.08	<.1	.99	13.4	3.5	.5	<.01	2.6	3.29	15.4	.05	<1	12.4
L-B 190N-465E	4.22	<.1	.71	12.9	3.7	.5	.01	2.5	5.79	26.9	.06	<1	17.2
L-B 190N-496E	5.38	<.1	1.47	16.8	7.6	1.0	.03	2.5	11.63	30.7	.10	2	18.1
L-B 190N-527E	6.94	<.1	1.72	20.2	12.6	1.0	.05	6.5	24.22	80.2	.13	13	22.9
L-B 190N-558E	3.34	<.1	.58	12.3	2.8	.4	.01	.4	3.81	16.1	.04	<1	12.7
L-B 190N-589E	2.95	<.1	.81	11.5	3.0	.4	.02	1.1	1.47	11.3	.03	<1	12.2
L-B 190N-620E	3.65	<.1	.66	12.1	3.4	.5	.01	.9	2.15	13.1	.04	<1	12.5
L-B 190N-651E	3.82	<.1	.86	10.0	3.9	.6	.02	1.3	2.87	13.9	.05	<1	14.6
L-B 190N-682E	2.72	<.1	.76	9.1	2.6	.5	.02	.6	1.48	11.8	.02	<1	10.9
L-B 190N-713E	2.82	<.1	.56	9.4	2.4	.4	.01	.9	1.84	12.0	.03	<1	10.3
L-B 190N-744E	4.74	<.1	1.55	16.8	7.1	.8	.06	2.5	11.35	42.9	.10	3	20.5
L-B 190N-775E	3.90	<.1	.88	13.4	3.4	.6	.03	2.6	3.81	20.1	.05	<1	11.3
L-B 190N-806E	3.71	<.1	1.00	10.3	3.5	.5	.02	2.1	.93	8.4	.08	<1	17.4
STANDARD DS2	3.30	<.1	1.82	13.4	3.2	22.2	.04	3.3	5.03	30.0	5.45	<1	12.8

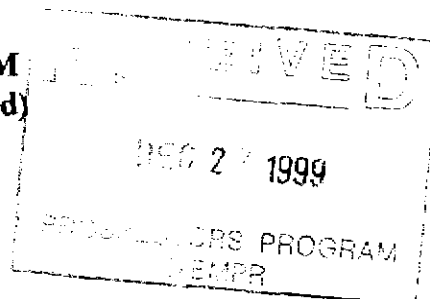
Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
L-B 190N-837E	2.39	<.1	.84	7.7	2.8	.5	<.01	1.7	2.27	12.6	.03	<1	10.3
L-B 190N-868E	2.27	<.1	1.19	5.0	3.2	.5	<.01	1.8	2.65	15.2	.04	<1	16.6
L-B 190N-930E	1.06	<.1	.46	4.1	1.9	.4	<.01	.5	1.02	9.8	.03	<1	6.1
L-B 190N-961E	1.36	<.1	.98	4.1	3.0	.5	<.01	.4	1.92	9.6	.05	<1	11.4
L-B 190N-992E	1.36	<.1	.95	6.2	2.3	.6	<.01	.6	.72	7.3	.04	<1	6.8
L-B 190N-1023E	2.76	<.1	.76	9.5	3.6	.5	<.01	2.1	1.35	7.9	.07	<1	18.3
L-B 190N-1054E	2.13	<.1	1.28	16.5	2.4	.7	<.01	1.0	.80	9.4	.04	<1	7.9
RE L-B 190N-1054E	2.49	<.1	1.46	18.9	2.5	.8	<.01	.8	.65	9.6	.04	<1	7.6
STANDARD DS2	3.21	<.1	1.77	14.0	3.1	23.7	.03	3.6	5.18	30.4	5.70	<1	13.2

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

**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 Ralph R. Keefe Reference Number P7 1999/2000

LOCATION/COMMODITIES NAD Numerous

Project Area (as listed in Part A) NAD MINFILE No. if applicable _____

Location of Project Area NTS 93 E/14/E Lat 55 50 Long 127 00 Locality _____

Description of Location and Access Approx. 101 km S. of Houston - Old Thatsa Rd. - New Rd construction & log blocks new & old S.W. & N.E. of PAM M.C.'s (Glacier Main, Smoke Mtn. Main & Sibola Main - Haul Roads)

Main Commodities Searched For Cu, Mo & Au Porphyry & Epithermal

Known Mineral Occurrences in Project Area Smoke Mtn, Tara, Sylvia, CQ & PAM - predominately porphyry

WORK PERFORMED

1. Conventional Prospecting (area) Prospecting areas as listed above
2. Geological Mapping (hectares/scale) On going during prospecting
3. Geochemical (type and no. of samples) Total of 24 samples taken as follows - 12 rock & 12 silts
4. Geophysical (type and line km) Nil
5. Physical Work (type and amount) Nil
6. Drilling (no. holes, size, depth in m, total m) Nil
7. Other (specify) Nil

SIGNIFICANT RESULTS Nil

Commodities _____ Claim Name _____

Location (show on map) Lat _____ Long _____ Elevation _____

Best assay/sample type _____

Description of mineralization, host rocks, anomalies _____

Mineralization - Review of old Tara property. Could not locate the CQ showing. Prospected all new Rd Const. plus log blks. from last winter & old blocks S.W. & N.E. of the PAM M.C.'s. Entire area S. of Nadina & Newcomb Lakes being developed at moment

* Further follow-up required in 2000/2001

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*.

NAD PROJECT
SCALE 1:50 000
PROJECTED - 1999

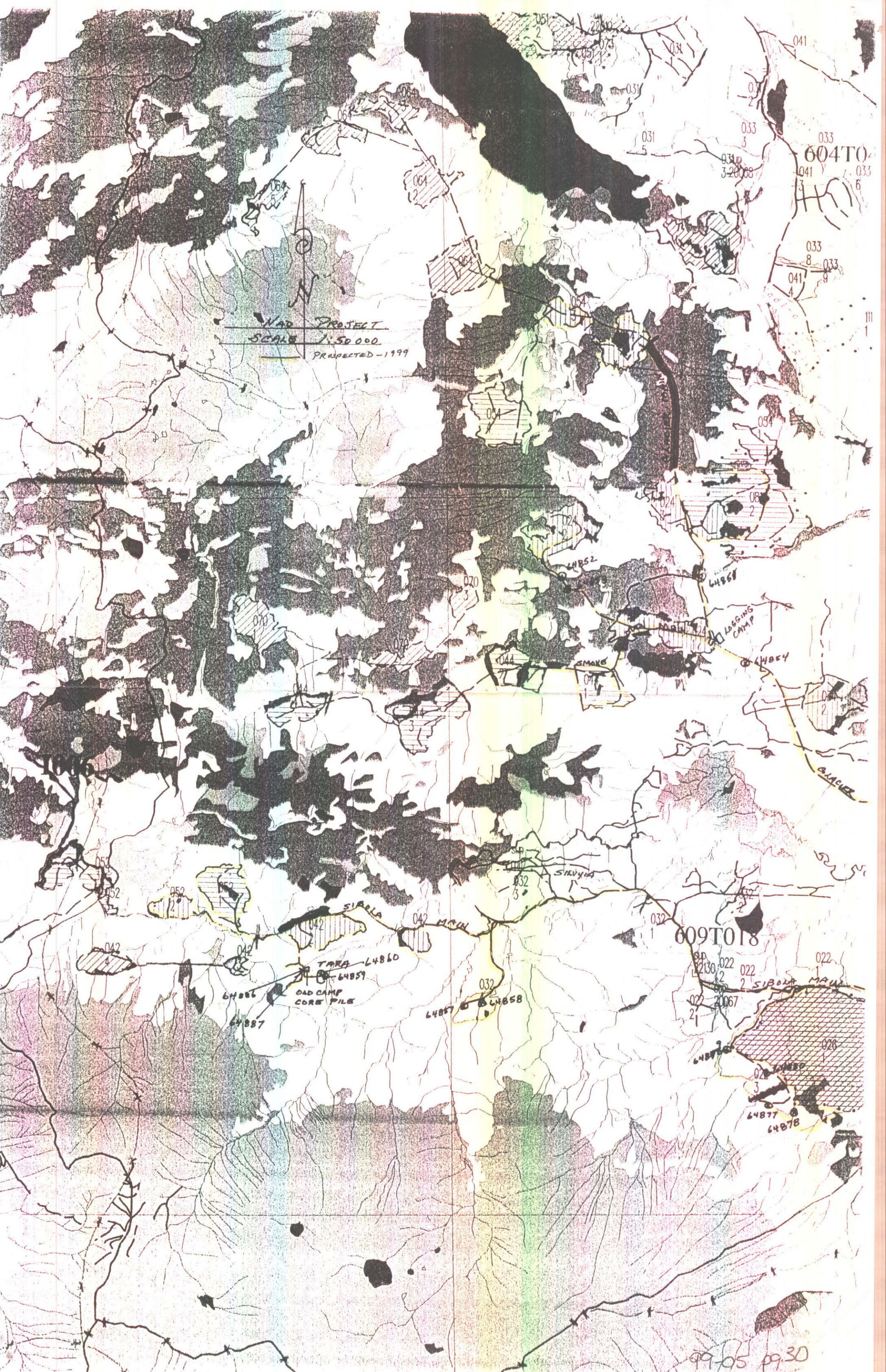
604T0

609T018

TARA L4860
L4859
OLD CAMP
CORE FILE

SIBOLA MAUS

99-05 99-30



GEOCHEMICAL ANALYSIS CERTIFICATE

SILTS



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT NAD File # 9902552 (a)

405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: R. Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
64851	.71	17.12	7.67	69.5	56	20.1	12.6	772	2.71	15.3	.5	8.5	1.0	28.1	.20	.56	.18	55	.37	.064	6.2	23.3	.52	104.5	.039	1	1.10	.020	.05	<.2	.05	23	.3	.10	3.6
64852	1.11	21.21	8.67	77.7	114	23.5	12.8	573	2.92	21.5	.5	5.3	1.1	33.8	.21	.64	.22	56	.41	.065	6.5	23.4	.58	111.4	.034	1	1.16	.021	.05	<.2	.05	20	.3	.16	3.9
64853	.94	21.77	9.22	82.0	79	25.1	13.1	602	3.07	24.2	.6	7.9	1.1	36.8	.21	.59	.20	56	.43	.066	6.8	24.8	.62	127.2	.031	1	1.26	.023	.05	<.2	.05	22	.4	.16	4.2
64854	1.47	35.58	13.42	122.2	632	13.4	11.8	1130	2.81	6.0	1.1	13.5	.3	41.2	.42	.53	.49	64	.56	.095	10.7	16.8	.49	215.1	.025	1	2.51	.015	.09	.2	.13	63	.3	.07	8.1
64855	.92	33.77	8.14	82.3	171	23.9	9.6	583	2.77	8.4	.9	11.7	.5	58.8	.40	.73	.27	57	.81	.089	11.9	25.1	.54	185.6	.030	1	2.43	.016	.09	.3	.11	70	.3	.07	5.5
64856	1.80	38.44	50.81	151.8	1631	13.2	10.7	845	2.59	7.8	1.1	5.3	1.7	29.4	1.08	6.89	.59	49	.34	.061	6.0	14.6	.54	93.1	.060	1	1.28	.020	.07	.5	.08	23	.4	.11	4.1
64857	2.52	18.74	9.16	69.8	224	18.8	17.5	6210	3.43	4.4	.9	24.7	.4	49.8	.38	.39	.32	60	.78	.123	11.8	22.7	.39	266.6	.014	1	2.13	.011	.05	.4	.27	105	.6	.05	5.5
64858	1.84	33.34	10.03	83.1	134	12.1	9.5	1004	2.72	8.8	.8	22.0	.8	44.4	.67	1.07	.27	60	.68	.084	9.6	18.6	.49	187.2	.034	2	1.82	.019	.11	.4	.11	67	.5	.09	4.6
RE 64858	1.82	35.90	10.00	87.1	139	12.9	9.8	1043	2.87	8.9	.8	53.9	.8	46.7	.68	1.06	.27	63	.72	.088	9.9	19.8	.50	189.7	.037	2	1.87	.020	.11	.3	.11	68	.5	.08	4.9
64878 ✓	.92	32.79	9.45	76.0	55	12.6	12.2	779	3.71	7.5	.5	3.6	1.6	22.0	.29	1.51	.27	95	.39	.063	5.7	26.7	.56	127.4	.066	1	1.36	.021	.06	.2	.06	33	.4	.14	4.4
64879	1.98	29.61	12.06	161.3	118	10.0	8.0	1825	2.84	8.3	1.5	26.6	.4	50.7	1.42	1.43	.46	40	.84	.136	15.9	13.1	.32	386.8	.015	2	1.75	.012	.14	.5	.11	129	.5	.09	3.8
64880	1.63	35.01	8.02	59.5	81	10.6	11.3	750	3.04	7.9	.5	87.7	1.6	24.8	.27	2.82	.20	74	.39	.057	5.3	17.0	.54	102.5	.065	1	1.15	.025	.06	<.2	.05	48	.3	.09	3.8
70550	2.60	17.45	13.31	54.3	405	10.0	13.5	2125	3.43	10.4	.7	11.4	.1	86.7	.41	.22	.28	117	.70	.161	6.7	15.3	.22	255.8	.015	1	1.84	.014	.05	<.2	.11	104	.5	.04	7.5
STANDARD DS2	13.61	128.39	29.50	158.7	261	35.5	12.6	821	3.25	61.1	20.4	194.0	3.3	33.2	11.83	9.82	10.65	74	.57	.086	13.5	159.0	.55	137.3	.111	2	1.72	.037	.16	7.3	1.99	233	2.6	1.83	6.0

15 GRAM SAMPLE IS DIGESTED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML WITH WATER, ANALYSIS BY ICP/ES & MS. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.

- SAMPLE TYPE: SILT Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 27 1999 DATE REPORT MAILED: Aug 10/99 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT NAD File # 9902552 (b)
405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: R. Keefe

SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
64851	1.38	<.1	.31	4.8	3.2	.6	.04	1.2	4.05	15.4	.03	<1	9.1
64852	1.51	<.1	.24	5.1	3.6	.4	.03	1.4	4.58	15.6	.03	<1	10.0
64853	1.58	<.1	.28	5.5	3.9	.3	.02	1.3	4.95	16.5	.03	<1	10.3
64854	4.05	<.1	.66	11.6	2.3	.5	.05	.2	7.62	18.7	.05	<1	17.6
64855	2.51	<.1	1.23	9.3	5.0	.3	.08	1.2	11.71	27.8	.04	2	12.0
64856	2.05	<.1	.28	6.1	3.0	.3	.02	1.1	3.99	14.9	.03	<1	10.9
64857	2.93	<.1	.76	4.7	3.1	.2	.13	.9	9.85	34.9	.02	6	11.2
64858	2.98	<.1	.49	8.3	3.5	.4	.04	.6	8.14	19.6	.04	<1	12.3
RE 64858	3.05	<.1	.48	8.8	3.8	.3	.04	.5	8.28	20.5	.04	<1	13.5
64878	2.57	<.1	.19	4.9	4.4	.4	.02	.8	4.95	15.1	.03	<1	11.0
64879	6.73	<.1	.49	9.7	3.1	.4	.10	.5	18.12	25.7	.05	<1	11.8
64880	1.48	.1	.12	3.5	3.2	.3	.04	1.8	4.30	14.3	.02	<1	8.8
70550	2.47	<.1	.67	7.3	1.3	.5	.13	.2	4.57	18.5	.04	<1	9.5
STANDARD DS2	3.21	<.1	1.77	14.0	3.1	23.7	.03	3.6	5.18	30.4	5.70	<1	13.2

15 GRAM SAMPLE IS DIGESTED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: SILT Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 27 1999 DATE REPORT MAILED: *Aug 10/99* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

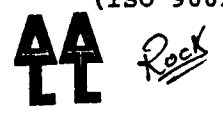
Received - Aug 29/99

3 - COPIES

ACME ANALYTICAL LABORATORIES LTD.
(ISO 9002 Accredited Co.)

852 E. HASTINGS ST. VANCOUVER BC V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716



GEOCHEMICAL ANALYSIS CERTIFICATE *Rock*



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT NAD File # 9902551 (a)
405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: R. Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm		
64859 ✓	3.57	669.27	11.53	140.6	2504	1.6	3.9	51	2.38	568.8	.3	778.2	3.9	5.5	.86	917.46	.62	6	.07	.064	2.6	12.2	.03	127.6	.001	1	.46	.062	23	7.7	.14	231	2.2	.24	1.4		
64860 ✓	5.64	510.32	9.18	59.1	231	4.5	4.9	533	1.74	21.3	.3	59.4	2.9	13.6	.95	25.73	.46	8	.24	.041	1.5	12.7	.08	198.6	.001	2	.69	.056	23	5.1	.10	12	.6	.13	1.6		
64875	1.97	149.40	12.13	88.4	251	20.8	33.9	870	6.11	46.1	<.1	2.7	.3	20.7	.28	2.85	.38	124	1.33	.058	1.0	39.8	1.68	78.7	.211	<1	2.65	.056	.03	3	5	.03	10	1.5	.36	8.2	
64876	2.74	45.58	2.39	83.9	68	4.9	20.9	1331	5.11	6.6	<.1	.4	.3	21.7	.08	.38	.13	74	2.57	.069	1.1	10.6	1.34	13.3	.141	1	3.12	.032	.01	3	8	<.02	<5	5	.15	7.8	
64877	4.00	14.39	5.92	37.7	82	5.7	7.7	444	2.52	3.4	.3	1.3	1.8	21.6	.10	.49	.29	21	.59	.079	3.9	20.6	.56	42.8	.124	1	.95	.088	13	8	.1	.04	<5	.7	.12	4.8	
64881	.87	21.64	1.54	25.4	44	12.5	9.7	407	2.12	.8	.8	<2	4.3	47.2	.03	.33	.03	55	.62	.143	15.1	36.4	.19	48.8	.072	1	.74	.131	.09	1	0	.03	14	<.1	<.02	2	9
64882	1.52	34.19	5.25	79.4	61	23.9	19.1	835	1.80	11.0	1.8	<2	5	70.2	.09	.35	.06	62	.82	.129	15.4	27.1	.64	102.6	.137	<1	1.28	.111	.15	.6	.09	1048	<.1	<.02	3	9	
64883	.70	29.05	3.53	59.9	42	19.7	10.7	349	1.36	5.6	1.1	<2	3.3	42.8	.08	.28	.04	42	.57	.137	12.6	36.4	.31	94.6	.071	1	.61	.110	.37	.3	.04	170	<.1	<.02	2	1	
RE 64883	.71	29.03	3.74	60.9	43	19.0	10.4	349	1.35	5.7	1.1	<2	3.4	42.1	.10	.29	.04	42	.57	.136	13.0	38.4	.32	96.3	.072	1	.61	.112	.40	.3	.04	189	<.1	<.02	2	2	
64884	1.94	28.67	4.11	40.2	54	19.5	10.1	260	1.77	80.6	1.1	<2	3.1	53.6	.07	.40	.04	39	.68	.137	11.5	40.5	.42	97.8	.050	1	.73	.156	.22	.6	.27	599	.3	<.02	2	3	
64885	1.89	27.73	3.95	74.9	25	17.5	6.6	359	2.53	66.9	1.4	4.0	2.8	60.1	.04	.16	.03	46	.53	.093	8.7	30.0	.26	1587.9	.065	<1	1.28	.219	.26	.2	.07	40	.2	<.02	3	8	
64886	4.87	742.41	5.96	44.7	676	6.6	10.6	525	3.01	4.2	.6	82.3	3	66.1	.21	1.50	.36	53	1.61	.058	4.7	16.7	.44	79.3	.061	2	.68	.075	.17	6.4	.06	6	.5	.19	3	0	
64887	8.91	19.42	56.85	187.7	285	2.7	8.1	402	2.15	6.6	1.3	7.3	2.5	70.1	1.40	1.52	.63	3	1.54	.034	3.2	9.4	.16	82.8	.001	2	.50	.039	.30	6.0	.10	50	.9	.32	1	2	
STANDARD DS2	13.95	132.10	29.87	160.3	249	36.9	12.5	835	3.36	59.9	19.2	187.4	3.4	30.6	11.30	9.76	10.40	75	.58	.087	13.2	152.2	.52	131.8	.107	2	1.64	.037	.16	7.1	1.90	235	2.4	1.77	5	9	

15 GRAM SAMPLE IS DIGESTED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
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DATE RECEIVED: JUL 27 1999 DATE REPORT MAILED: *Aug 10/99* SIGNED BY: *C. Toy* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE



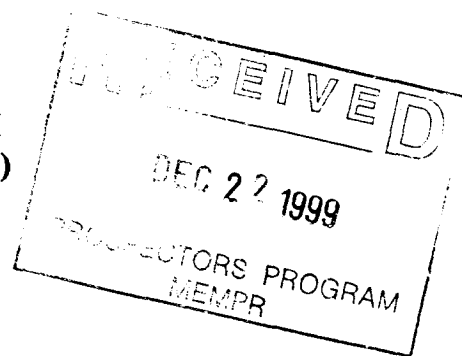
Hudson Bay Expl. & Dev. Co. Ltd. PROJECT NAD File # 9902551 (b)
405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: R. Keefe

SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
64859	2.83	<.1	<.02	8.2	.7	.2	.46	2.1	2.64	8.3	.24	4	.4
64860	4.34	<.1	<.02	9.6	1.0	.2	.49	2.6	2.82	4.2	.08	17	2.0
64875	.64	.1	.02	.8	10.0	.9	1.03	3.8	3.99	3.0	.04	<1	18.1
64876	.51	.1	.03	.4	5.0	.4	.68	6.8	5.45	3.5	.02	1	14.1
64877	.23	.1	.19	5.1	3.1	.4	.90	1.8	9.66	10.0	<.02	2	7.1
64881	4.79	<.1	<.02	6.9	5.4	.3	<.01	7.1	7.61	37.8	.03	<1	1.0
64882	2.38	<.1	.02	10.1	3.2	.8	.26	3.2	9.19	36.7	.02	<1	2.6
64883	1.87	<.1	.04	28.0	3.1	.5	.08	7.4	8.46	31.2	.02	<1	3.5
RE 64883	1.90	.1	<.02	28.4	3.1	.5	.08	7.5	8.59	32.1	.02	<1	3.7
64884	.94	<.1	.04	16.0	2.8	.5	.89	9.2	5.38	28.2	.02	1	4.0
64885	4.89	<.1	<.02	27.3	2.6	.4	.10	4.0	4.40	20.9	.02	2	1.4
64886	1.99	.1	.14	8.2	2.9	.7	.55	3.4	4.55	11.5	.08	12	3.5
64887	3.45	<.1	<.02	13.1	.5	.3	2.08	5.1	4.42	7.7	.03	19	1.1
STANDARD DS2	3.06	<.1	1.91	14.8	2.9	23.4	.02	3.4	5.17	30.0	5.11	<1	13.5

15 GRAM SAMPLE IS DIGESTED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
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**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 Ralph R. Keefe Reference Number P7 1999/2000

LOCATION/COMMODITIES

Project Area (as listed in Part A) O.G.D.P. New Project "Ches" MINFILE No. if applicable A/R #17679
 Location of Project Area NTS 93 F 5/E Lat 53 25 Long 125 42
 Description of Location and Access 32 km South of the East Ootsa Barge (Fraser Lake Sawmills)

Main Commodities Searched For Cu, Zn, Mo, Co, Ag & Au

Known Mineral Occurrences in Project Area Skarn - with (3) structural zones of Massive Sulphides plus sulphides visible in between. In addition, there is stockwork mineralization exposed in Road Cuts.

WORK PERFORMED

1. Conventional Prospecting (area) Mainly on area. Intrusive rock & sediments
2. Geological Mapping (hectares/scale) Limited to date - due to overburden
3. Geochemical (type and no. of samples) Silts & soils in between lines taken from Leask Bros. - Exo M.C.
4. Geophysical (type and line km) Nil to date - previous VLF-EM & MAG taken previous
5. Physical Work (type and amount) On going - rock quarry
6. Drilling (no. holes, size, depth in m, total m) Nil to date
7. Other (specify) N/A - other than enlarging a present large rock quarry for road construction(90x20 metres) (Fraser Lk Sawmill)

SIGNIFICANT RESULTS

Commodities Cu, Zn, Co, Mo, Ag & Au Claim Name CHES #1 to 6 inclusive
 Location (show on map) Lat 53 25 Long 125 42 Elevation _____
 Best assay/sample type _____

Description of mineralization, host rocks, anomalies (1) Mineralization - Skarn type of structural massive sulphides within intruded sediments with visible mineralization between (Open Pit (Quarry)) under development - Present Size (90m x 20m) plus stockwork porphyry type mineralization within limey siltstones & limestones to east.

Host Rocks - Main showing to date lies within intruded limey sediments.
 Anomalies - Several significant geological soil, MAG & EM anomalies have yet to be tested.
 N.B. - Note - Small Cretaceous Granite Intrusion on E. side of M.C. 's is the age class between (76-79)MA. This is "Bulkley"
 Ass. Report to Follow

****Request a confidentiality period for a minimum period of 2 years. Further project work contemplated for 2000/2001**

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*.

No mention of Shawn Turford (40%) On Jan 15/12 or 13 Ralph said this is his report

MAP OF
CHES. M.C.S #17 1936 incl

SCALE
1:20,000
Ref. Pit - Rock Quarry - SWAMP -

8+50N
7+50N

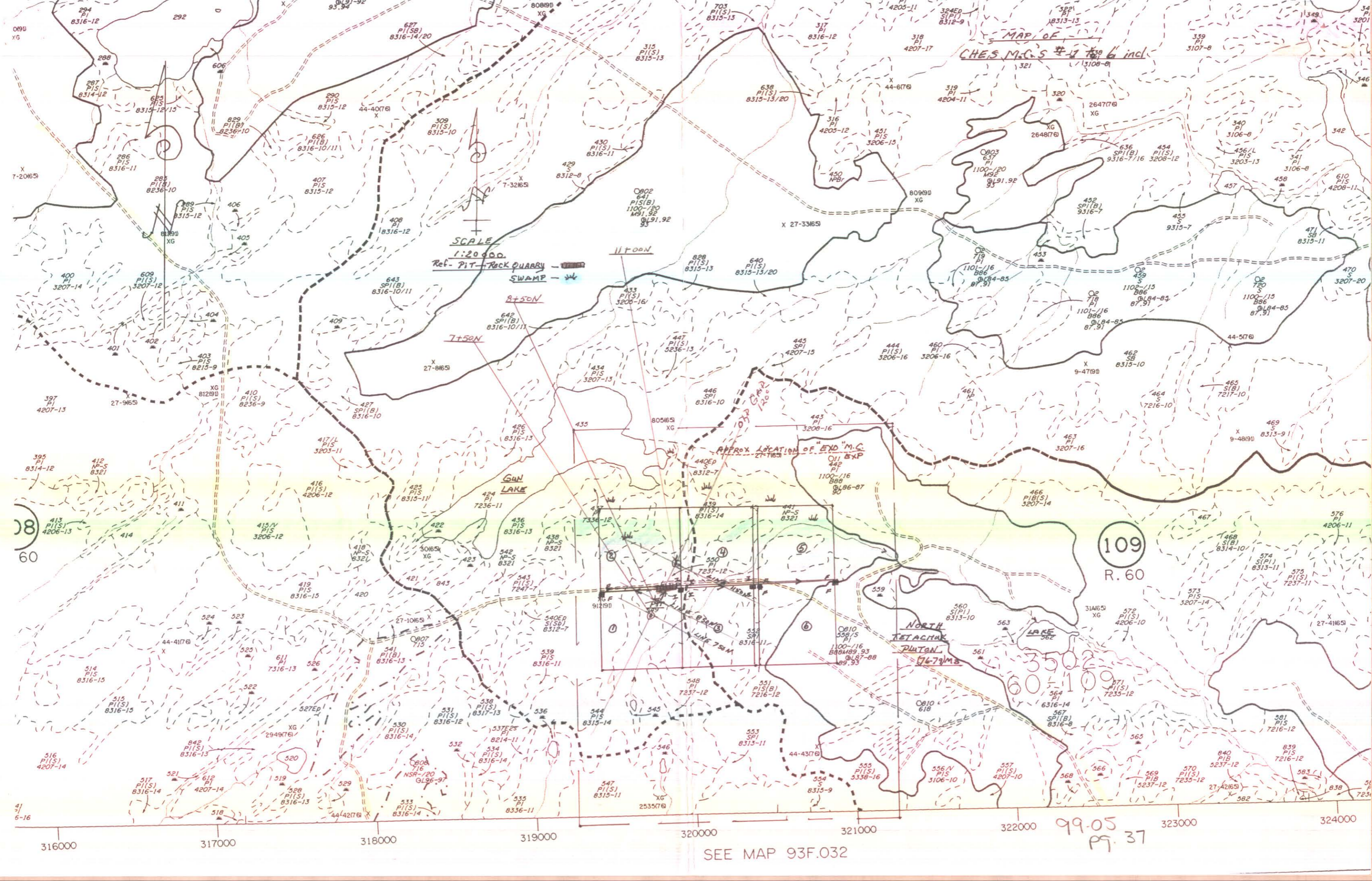
APPROX LOCATION OF "EYE" M.C.

NORTH
TETACHUK
PLUTON
[7679]M2

109
R. 60

SEE MAP 93F.032

99.05
Pg. 37



ROUGH SKETCH MAP OF ROCK QUARRY (PIT)
ON CHES M.C.'s - CHES PROJECT

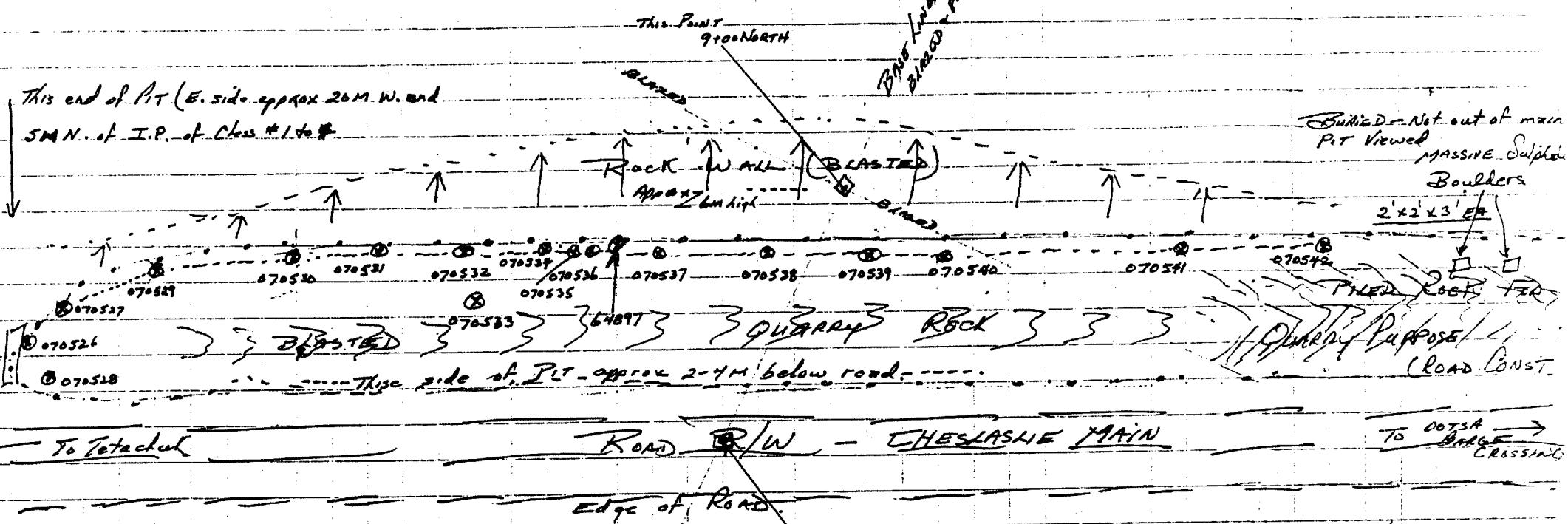
SAMPLES "CHES PROJECT" - (Rock Quarry)

070526 - Please refer to CLAIM MAP for LOCATION

Rock Quarry (Pit) on CHES M.C.'s - 3.2 KM S. of E. Ootsa Bridge Crossing
approx height of land between CHESIASHE ARM & TETACHUK LAKE.

- 27 - West end.
- 28
- 29 - Approx 10M - W.
- 30 - " 10M - further W.
- 31 - " 8M. S.P. [32]
- 32 - " 6M W.P. [32]
- 33 - " 6M W.P. [32]
- 34 - " 4M W.P. [33]
- 35 - " 5M W.P. [34]
- 36 - " 2M W.P. [35]
- 37 - " 6M W.P. [34]
- 38 - " 8M W.P. [37]
- 39 - " 7M W.P. [38]
- 40 - " 5M W.P. [39]
- 41 - " Near W. end of Pit
- 42 - " W. end of Pit

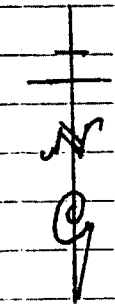
This end of Pit (E. side approx 20M. W. and
5M N. of I.P. of Class #1 to #



64897 " Centre of Pit
Additional 19.5. further to W.
not sampled to date
Nov 16/99

N.B. (No Scale) Size Approx (90M x 20M)

ORIGINAL MAP OF PIT HAS BEEN MISPLACED OR LOST. (This is best I could do without proper mapping)





GEOCHEMICAL ANALYSIS CERTIFICATE



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT CHES File # 9901986
405 - 470 Granville St., Vancouver BC V6C 1V5

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Hg ppb
070526 DR	20	635	11	564	.9	2	5	569	2.99	<2	<8	<2	2	6	6.3	3	6	6	.27	.018	4	15	.45	18	.04	<3	.63	.09	.02	24	5	<10
070527 DR	4	148	7	539	<.3	4	3	197	1.53	5	<8	<2	2	6	6.3	<3	3	4	.25	.031	5	11	.16	42	.04	<3	.39	.09	.07	8	1	<10
070528 DR	12	149	84	197	.7	2	1	1006	.55	17	11	<2	<2	28	1.4	<3	4	3	3.27	.006	8	2	.10	39	<.01	<3	.58	.02	.23	2	1	<10
070529 DR	17	1178	6	118	1.6	4	4	265	2.10	13	<8	<2	<2	9	1.2	<3	<3	4	.37	.027	3	11	.22	14	.02	<3	.45	.07	.04	10	8	<10
070530 DR	6	134	6	47	<.3	6	3	309	1.58	4	10	<2	<2	6	.2	<3	<3	7	.36	.011	2	13	.32	22	.04	<3	.59	.10	.07	10	1	<10
070531 DR	3	95	3	27	<.3	4	3	274	2.02	6	8	<2	<2	8	<.2	<3	<3	6	.52	.014	4	12	.31	26	.04	<3	.60	.10	.08	11	1	<10
070532 DR	5	271	6	53	.6	5	3	322	2.57	<2	<8	<2	2	8	<.2	<3	<3	3	.47	.013	2	5	.22	21	.04	3	.45	.10	.04	9	1	<10
070533 DR	2	453	10	454	1.0	7	3	420	2.17	<2	11	<2	2	8	4.6	<3	8	14	.58	.029	3	22	.18	9	.06	<3	.44	.11	.05	24	2	<10
070534 DR	3	689	23	347	1.3	7	5	459	2.63	4	<8	<2	<2	12	2.5	<3	<3	23	.82	.038	4	9	.25	25	.08	5	.64	.10	.12	105	3	<10
070535 DR	13	243	11	613	.4	3	3	281	2.20	3	16	<2	2	13	6.5	<3	<3	8	.69	.039	3	8	.08	38	.07	6	.56	.10	.09	12	2	<10
070536 DR	6	12049	29	592	23.0	57	199	3774	13.41	82	<8	<2	3	22	9.6	<3	6	38	2.96	.135	4	25	.76	18	.09	9	1.99	.11	.09	1014	37	<10
RE 070536 DR	5	11973	26	589	22.9	60	198	3767	13.42	77	<8	<2	3	23	9.5	<3	<3	38	2.95	.135	4	24	.76	22	.09	<3	2.00	.11	.09	1026	41	<10
070537 DR	1	150	16	1617	.4	9	7	2929	.87	7	21	<2	4	39	14.4	<3	12	13	16.66	.060	3	3	.01	26	.06	3	.61	.12	.04	6	2	15
070538 DR	3	76	10	549	<.3	5	3	223	1.84	2	<8	<2	<2	10	7.3	<3	<3	8	.68	.024	3	13	.33	16	.06	<3	.73	.07	.08	13	2	10
070539 DR	9	1200	3	161	1.8	18	11	2000	4.49	<2	<8	<2	<2	9	<.2	5	<3	17	2.79	.070	4	12	.12	12	.05	10	1.05	.04	.01	1368	6	<10
070540 DR	8	803	14	103	2.0	48	104	1355	25.97	26	<8	<2	5	10	1.8	<3	4	13	1.02	.048	2	23	.13	17	.03	<3	.85	.06	<.01	2449	5	15
070541 DR	18	46	17	10256	<.3	8	8	1582	1.25	2	9	<2	<2	13	110.3	<3	<3	13	2.60	.047	3	19	.10	12	.09	<3	1.00	.08	.05	32	1	20
070542 DR	11	6277	<3	564	8.2	33	45	2652	17.05	24	<8	<2	3	5	8.8	<3	<3	40	2.55	.089	3	23	.17	3	.04	<3	.94	.03	.01	1709	29	<10
STANDARD C3/AU-R	26	67	36	164	5.5	36	11	781	3.29	54	26	2	21	28	23.5	19	21	79	.56	.085	19	164	.60	152	.08	20	1.81	.04	.15	20	553	920
STANDARD G-2	2	5	7	45	<.3	7	4	572	2.11	<2	11	<2	7	77	<.2	<3	<3	43	.68	.096	9	76	.62	238	.13	<3	1.02	.09	.48	2	<1	<10

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm) HG ANALYSIS BY FLAMELESS AA.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 2 1999 DATE REPORT MAILED: *July 8/99* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD.
(ISO 9002 Accredited Co.)

852 E. HASTINGS ST. VANCOUVER BC V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716



Rock

GEOCHEMICAL ANALYSIS CERTIFICATE



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT CHES File # 9902878 (a)
405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: R. Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Ti ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
64897	10.76	9109.07	6.88	1443.4	12511.38	2.31	9.24	95.17	50.27	4.4	17.1	2.2	1.13	32.35	2.89	33.2	54.038	1.2	22.2	.06	4.6	.038	<1	.89	.009	<0.1	.368	3	<0.2	226	21.8	55	4.7		
STANDARD DS2	14.40	135.08	31.49	171.5	254.38	7.13	3.84	7.31	65.5	22.0	206.8	3.1	32.2	11.48	9.98	11.63	84.57	0.66	14.3	181.7	64	151.6	120	2.1	.89	.040	.17	7.1	1.98	259	2.5	1.95	5.3		

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: ROCK

DATE RECEIVED: AUG 13 1999 DATE REPORT MAILED: *Aug 30/99* SIGNED BY: *C. Leong* TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT CHES File # 9902878 (b)
405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: R. Keefe

SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
64897	.04	.8	.09	.1	1.4	4.6	5.23	5.4	4.01	3.3	.67	4	1.0
STANDARD DS2	2.81	<.1	2.01	14.3	3.2	23.6	.02	4.2	5.71	31.9	5.97	<1	13.9

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER FOLLOWED BY ANALYSIS BY ICP/ES & MS. THIS LEACH IS PARTIAL FOR ALL ELEMENTS.
- SAMPLE TYPE: ROCK

DATE RECEIVED: AUG 13 1999 DATE REPORT MAILED: *Aug 30/99* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

- 5 Copies -

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GEOCHEMICAL ANALYSIS CERTIFICATE



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT CHES File # 9904243 (a)

405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: Ralph Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti ppm	B %	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
167907	1.71	35.92	10.19	86.9	321	10.8	8.9	615	2.68	19.7	.6	1.8	.8	29.6	.53	.52	.50	65	.72	.047	10.3	15.7	.45	90.3	.112	<1	1.46	.016	.07	.4	.15	73	.3	.04	4.5

GROUP 1F30 - 30.00 GM SAMPLE, 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML, ANALYSIS BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT

DATE RECEIVED: NOV 2 1999 DATE REPORT MAILED: Nov 12/99 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT CHES File # 9904243 (b)

405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: Ralph Keefe

SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
167907	2.65	<.1	1.54	8.4	4.4	.4	.04	1.8	12.71	18.0	.03	2	10.6

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN - 100 PPM; MO, CO, CD, SB, BI, TH, U, B - 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR - 10,000 PPM.
- SAMPLE TYPE: SILT

DATE RECEIVED: NOV 2 1999

DATE REPORT MAILED: Nov 12/99

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT 2318 File # 9904106 Page 1 (a)

405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: Jason K. Dunning

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti % ppm	B %	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
99RLS008851+100E	1.53	12.12	9.48	140.5	123	13.9	7.8	229	3.17	13.5	.3	1.0	1.4	12.1	.27	.56	.51	80	.12	.038	5.4	19.3	.27	90.4	.162	1.2	1.4	.008	.02	.4	.06	45	.3	.07	5.5
99RLS008852+025E	1.72	16.94	9.24	160.4	116	11.6	6.2	259	2.51	8.1	.3	1.3	1.1	10.6	.33	.39	.49	68	.11	.035	5.1	17.6	.25	95.2	.146	1.2	2.01	.006	.02	.5	.06	48	.3	.04	5.5
99RLS008853+050E	2.38	227.43	10.27	472.7	91	14.3	6.6	307	2.40	7.5	.7	2.7	1.3	30.5	1.43	.51	.75	61	.39	.026	14.0	17.2	.33	72.5	.156	1.1	1.59	.012	.03	.3	.10	45	.1	.11	5.0
99RLS008854+075E	1.12	9.69	7.21	132.1	80	13.6	8.8	261	2.80	4.9	.4	.6	1.5	14.4	.28	.30	.22	75	.15	.067	7.2	19.7	.28	88.2	.148	1.2	2.07	.007	.04	.2	.05	38	.3	.04	5.4
99RLS008855+100E	1.45	7.68	9.53	200.0	190	9.9	6.2	225	3.22	5.0	.4	.5	1.6	12.3	.83	.25	.21	85	.13	.110	6.2	23.2	.18	60.2	.156	1.2	2.61	.007	.03	.3	.05	53	.4	.04	7.2
99RLS008856+125E	1.05	10.61	7.36	236.0	235	7.6	6.9	237	2.67	3.9	.3	58.6	1.3	13.0	1.18	.27	.19	74	.14	.089	6.1	15.5	.23	51.6	.127	1.1	1.70	.009	.04	.2	.04	39	.2	.02	5.3
99RLS008857+150E	1.21	9.51	6.49	139.2	208	9.0	5.9	225	2.54	4.3	.4	1.6	1.5	15.4	.37	.28	.14	71	.17	.035	7.0	17.4	.25	79.3	.142	1.1	1.84	.009	.03	.2	.03	27	.2	.02	4.4
99RLS008858+175E	1.34	10.15	7.02	165.6	61	8.1	6.8	511	2.30	3.3	.4	.5	1.4	27.0	.34	.36	.25	74	.51	.015	7.4	20.3	.47	49.4	.217	<1	1.18	.013	.04	<.2	.05	15	.2	.03	4.5
99RLS008859+200E	1.64	58.30	7.27	241.6	360	12.4	6.4	506	2.52	5.6	.6	1.0	.6	66.3	2.49	.63	.38	61	1.70	.053	24.4	20.1	.27	105.1	.092	1.1	1.84	.011	.05	.2	.12	75	1.0	.06	5.1
99RLS008860+225E	.85	6.67	6.77	134.5	178	7.0	4.6	205	2.52	3.7	.3	.4	1.3	12.7	.37	.27	.14	75	.15	.069	5.7	17.8	.21	53.3	.137	1.1	1.60	.007	.03	.2	.03	25	.2	.03	4.8
99RLS008862+250E	1.71	20.83	6.50	191.2	221	11.3	10.2	491	2.93	4.8	.3	3.1	1.3	10.8	.70	.32	.63	81	.12	.095	5.1	23.8	.20	52.5	.145	1.1	1.93	.007	.03	.5	.06	46	.2	.07	5.3
99RLS008863+300E	2.55	17.63	7.68	98.7	185	14.0	7.3	255	3.64	7.2	.4	.8	1.5	15.0	.35	.36	.22	106	.17	.047	6.6	26.0	.29	72.6	.175	1.2	2.02	.007	.03	.2	.04	57	.3	.05	5.8
99RLS008864+325E	4.65	69.84	6.40	336.8	136	14.5	9.0	323	2.58	3.7	.5	1.0	1.5	28.3	1.11	.33	.24	69	.39	.016	8.1	20.1	.31	65.9	.164	<1	1.36	.009	.03	1.0	.05	26	.5	.04	4.2
99RLS008865+350E	2.01	14.75	6.99	252.9	176	17.9	10.3	270	3.49	8.2	.4	.6	1.6	13.8	1.40	.37	.20	94	.14	.040	6.5	25.9	.28	77.1	.169	1.2	2.35	.007	.03	.2	.05	43	.3	.06	6.0
99RLS008867+400E	2.25	16.06	7.21	110.3	172	8.8	6.4	230	3.01	8.7	.3	1.9	1.1	10.4	.34	.39	.74	85	.11	.035	6.2	23.3	.27	52.1	.167	<1	1.79	.007	.02	.3	.07	37	.3	.09	5.4
99RLS008868+425E	16.05	330.10	9.75	172.0	294	14.9	13.6	384	3.32	21.2	.5	3.8	1.7	19.7	.37	1.04	1.00	81	.14	.032	8.0	24.9	.46	83.3	.162	1.2	2.00	.011	.04	12.3	.10	46	.7	.13	5.3
99RLS008869+450E	18.93	314.92	11.92	186.3	1147	9.8	14.5	653	5.83	34.2	.4	1.8	1.3	25.5	.78	2.36	1.89	88	.22	.142	4.3	16.6	.42	45.6	.122	1.2	2.16	.008	.04	6.4	.11	80	1.3	.39	7.3
RE 99RLS008877	1.73	37.15	8.97	153.0	198	9.8	5.1	244	2.21	8.7	.3	7.0	.8	23.7	.24	.56	.59	57	.46	.024	5.4	14.9	.26	45.4	.123	1.1	1.09	.014	.02	.9	.06	19	.2	.08	3.7
99KFFS008870+100E	1.42	10.76	8.65	116.9	83	7.7	6.6	429	2.07	6.4	.4	7.1	1.1	29.1	.37	.38	.29	58	.60	.016	7.0	16.9	.37	55.7	.172	1.1	1.14	.013	.03	.3	.07	27	.3	.03	4.2
99KFFS008871+025E	1.37	21.71	8.13	156.1	162	9.8	7.3	506	2.53	16.3	.8	9.2	.9	36.2	.76	.39	.36	62	.89	.041	9.8	19.8	.33	78.0	.113	1.1	1.32	.014	.04	.2	.07	44	.6	.03	4.2
99KFFS008872+050E	1.25	8.51	7.03	137.2	36	8.0	5.6	224	2.39	11.2	.3	10.4	1.0	19.7	.47	.31	.18	81	.34	.010	5.6	20.1	.22	48.9	.205	1.1	1.12	.009	.03	<.2	.05	16	.1	<.02	4.3
99KFFS008873+075E	1.89	29.22	8.53	325.1	211	10.2	8.1	660	2.62	32.8	.7	11.8	1.3	25.0	1.29	.63	.35	63	.53	.028	8.6	15.8	.37	60.4	.134	1.1	1.41	.012	.03	.2	.10	44	.7	.02	4.5
99KFFS008874+100E	.69	5.76	24.18	68.9	71	5.8	3.4	149	1.24	3.2	.3	13.6	.8	12.8	.19	.20	.60	44	.14	.010	5.1	11.4	.22	47.8	.140	1.1	1.09	.007	.02	<.2	.05	20	.1	.02	5.6
99KFFS008875+125E	1.45	11.87	8.83	100.0	112	10.8	5.4	200	3.36	11.3	.3	31.3	1.4	13.0	.22	.40	.33	85	.13	.039	6.1	22.8	.26	79.8	.146	<1	2.14	.006	.02	.2	.05	51	.2	.07	5.8
99KFFS008876+150E	1.36	10.44	7.41	59.4	76	10.9	5.3	187	2.91	9.8	.3	15.6	1.3	10.2	.16	.39	.21	78	.11	.058	5.0	25.7	.24	75.3	.149	<1	1.89	.006	.02	.3	.04	41	.2	.03	4.9
99KFFS008877+175E	1.82	37.92	9.51	156.8	204	9.7	5.3	252	2.33	8.9	.3	5.3	.9	24.9	.27	.57	.53	58	.48	.025	6.0	17.0	.27	46.7	.128	1.1	1.12	.014	.02	1.0	.07	28	.2	.07	3.7
99KFFS008878+200E	3.33	48.26	14.32	1010.2	576	16.7	10.3	1542	3.20	31.4	.8	4.1	1.9	36.4	6.29	1.54	.83	75	.84	.036	13.1	19.5	.35	77.0	.141	1.2	2.00	.014	.05	.3	.17	54	.9	.05	5.9
99KFFS008879+225E	1.85	43.31	14.80	383.4	234	10.2	13.5	961	3.41	13.1	.4	19.4	1.1	30.6	2.81	.60	1.34	92	.43	.031	8.6	18.0	.52	54.2	.167	1.1	1.49	.012	.04	.4	.08	26	.3	.10	6.4
99KFFS008880+250E	2.27	78.91	13.47	683.0	258	12.4	15.5	1532	3.24	11.9	.4	7.9	.9	34.3	6.45	.60	.72	81	.64	.043	9.7	23.5	.35	58.4	.155	1.1	1.43	.010	.04	.3	.12	33	.4	.07	6.0
99KFFS008882+275E	1.89	14.19	10.49	168.0	242	6.1	5.3	302	2.99	13.6	.2	8.9	.9	11.1	1.14	.47	1.63	91	.12	.039	4.9	18.6	.25	40.7	.193	1.1	1.15	.008	.03	.8	.06	23	.1	.12	7.0
99KFFS008883+300E	1.66	10.16	8.82	70.8	81	5.8	4.1	207	3.05	19.5	.2	9.4	.7	9.0	.35	.51	.80	102	.11	.028	3.8	16.5	.24	32.9	.191	<1	1.02	.006	.03	.6	.06	27	.2	.08	6.8
99KFFS008884+325E	1.65	18.07	10.82	96.8	142	7.3	6.0	238	3.11	21.5	.3	33.7	1.1	12.3	.44	.57	.75	88	.12	.041	5.5	18.6	.27	39.9	.176	<1	1.49	.007	.03	.5	.08	62	.2	.09	6.4
99KFFS008885+350E	3.73	96.51	15.24	4908.2	301	13.4	16.8	1559	4.48	90.6	.4	27.1	1.1	22.0	11.42	1.03	1.83	107	.35	.039	4.6	23.7	1.09	65.5	.254	1.2	2.45	.016	.06	1.3	.21	31	.4	.32	9.0
99KFFS008886+375E	1.43	8.96	6.88	81.8	51	5.0	6.3	294	3.27	5.9	.1	15.4	.5	7.2	.27	.42	.69	168	.09	.022	3.0	16.6	.68	75.8	.374	<1	1.22	.012	.15	.5	.20	16	.1	.10	11.7
STANDARD DS2	13.58	126.59	29.87	159.8	259	35.7	12.3																												



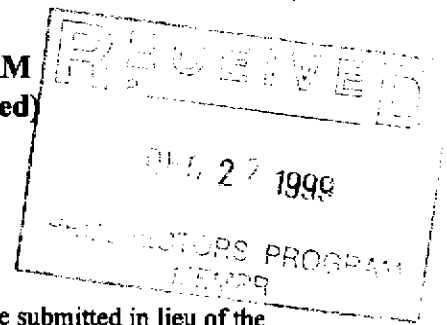
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
99KFFS008887+400E	2.56	20.29	11.32	113.3	149	7.1	8.2	359	3.84	51.9	.3	33.0	.8	15.3	.58	.85	.95	140	.20	.033	6.2	19.9	.32	59.0	.253	1	1.23	.009	.05	.6	.10	.27	.2	.12	9.6
99KFFS008888+00E	2.51	8.85	8.82	117.3	121	5.3	3.4	182	2.56	6.1	.2	10.2	.9	12.8	.46	.40	1.42	89	.12	.015	4.8	14.2	.19	52.6	.172	1	1.19	.006	.02	.4	.04	.28	.2	.16	6.7
99KFFS008889+75E	4.04	98.25	8.51	1156.2	191	13.2	9.0	1003	2.46	3.6	.6	45.0	1.3	35.7	7.43	.43	.42	72	.59	.021	8.1	21.4	.46	49.6	.249	<1	1.18	.015	.04	.2	.14	.41	.5	.03	5.5
99KFFS008890+100E	2.92	15.73	10.89	347.7	186	5.8	4.2	248	1.71	3.8	.3	13.0	.9	19.0	2.12	.23	.68	65	.24	.011	6.6	15.8	.23	47.4	.166	<1	.98	.009	.02	.9	.05	.12	.2	.03	5.0
99KFFS008891+125E	8.09	100.14	12.18	1808.5	196	11.3	9.9	962	2.92	7.9	.5	10.9	.9	39.2	11.32	.95	1.57	72	.72	.041	7.2	16.5	.53	37.2	.152	1	1.43	.019	.06	.9	.11	.38	1.0	.17	6.6
99KFFS008892+150E	2.28	16.79	8.85	108.7	165	10.1	6.4	247	2.77	8.1	.3	6.9	1.2	15.1	.82	.36	.53	93	.18	.026	6.4	22.1	.33	66.0	.192	<1	1.73	.008	.04	.4	.06	.35	.2	.06	7.1
RE 99KFFS008892	2.25	17.77	8.49	110.1	159	10.8	6.7	259	2.91	7.7	.3	6.9	1.2	16.1	.77	.32	.46	97	.19	.025	7.0	22.0	.35	69.1	.203	1	1.82	.008	.04	.4	.06	.25	.2	.05	7.0
STANDARD DS2	13.94	127.79	29.93	160.5	256	36.0	12.8	810	3.08	60.7	19.7	193.0	3.4	28.5	11.22	10.75	11.12	79	.53	.089	17.0	167.0	.59	140.8	.112	2	1.71	.030	.16	7.4	1.83	232	2.5	1.81	5.9

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

NOTE
SAMPLES MISSED

- LINE 850N-250E (SWAMP) - NO "B" HORIZON
- " " N-375E " " " "
- LINE 1150N-025E (SWAMP) - " " "
- " " N-050E " " " "

**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 Ralph R. Keefe Reference Number P7 1999/2000

LOCATION/COMMODITIES

Project Area (as listed in Part A) O.G.D.P. MINFILE No. if applicable N/A

Location of Project Area NTS Map Sheets 93E, KL Lat 53 58 Long 122 130

Description of Location and Access Mainly road access to numerous logging and industrial operations throughout plus previous winter log blocks in higher priority areas

Main Commodities Searched For Cu, Mo, Co, Zn, Pb, Ag & Au

Known Mineral Occurrences in Project Area Numerous porphyry, epithermal & M.S.

WORK PERFORMED

1. Conventional Prospecting (area) Hardrock prospecting, soil & silt sampling
2. Geological Mapping (hectares/scale) Outcrops noted
3. Geochemical (type and no. of samples) Silts & soils taken were deemed necessary - Total of 11 rock plus 5 seds = 16
4. Geophysical (type and line km) Nil
5. Physical Work (type and amount) Nil
6. Drilling (no. holes, size, depth in m, total m) Nil
7. Other (specify) Nil

SIGNIFICANT RESULTS - Staking of CHES Property

Commodities Cu, Mo, Co, Zn, Ag & Au Claim Name CHES #1 to 6 inclusive

Location (show on map) Lat 53 25 Long 125 42 Elevation _____

Best assay/sample type _____

Description of mineralization, host rocks, anomalies CHES Project - SKARN, MS & Porphyry

(1) Discovery of CHES Property during follow-up of the LASS Project with partner S. Turford, O.G.D.P. & follow up previous "Tet Project" - 1989

(2) Balance of O.G.D.P. confined to new development roads & 1998/99 winter log blocks - No new discoveries elsewhere at this time.

(3) A new M.S. discovery was found - but on an old existing M.C. Existence I do not believe known - to be followed.

(4) Follow - up of R. G. Anderson (1997) report of Amethyst - bearing amyddules in the basal andesite in maps 93 F11 - 14 do not indicate being jewelery quality. (5) Two rock samples were taken from a marble rock quarry 1km S.E. from

Osilinka Camp on main haul road leading to McKenzie (64895 & 64896)

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*.

OGDP - PROJECT
OOTSA LAKE-CHEVALITA
SCALE = 1:50000
PROSPECTED 1999

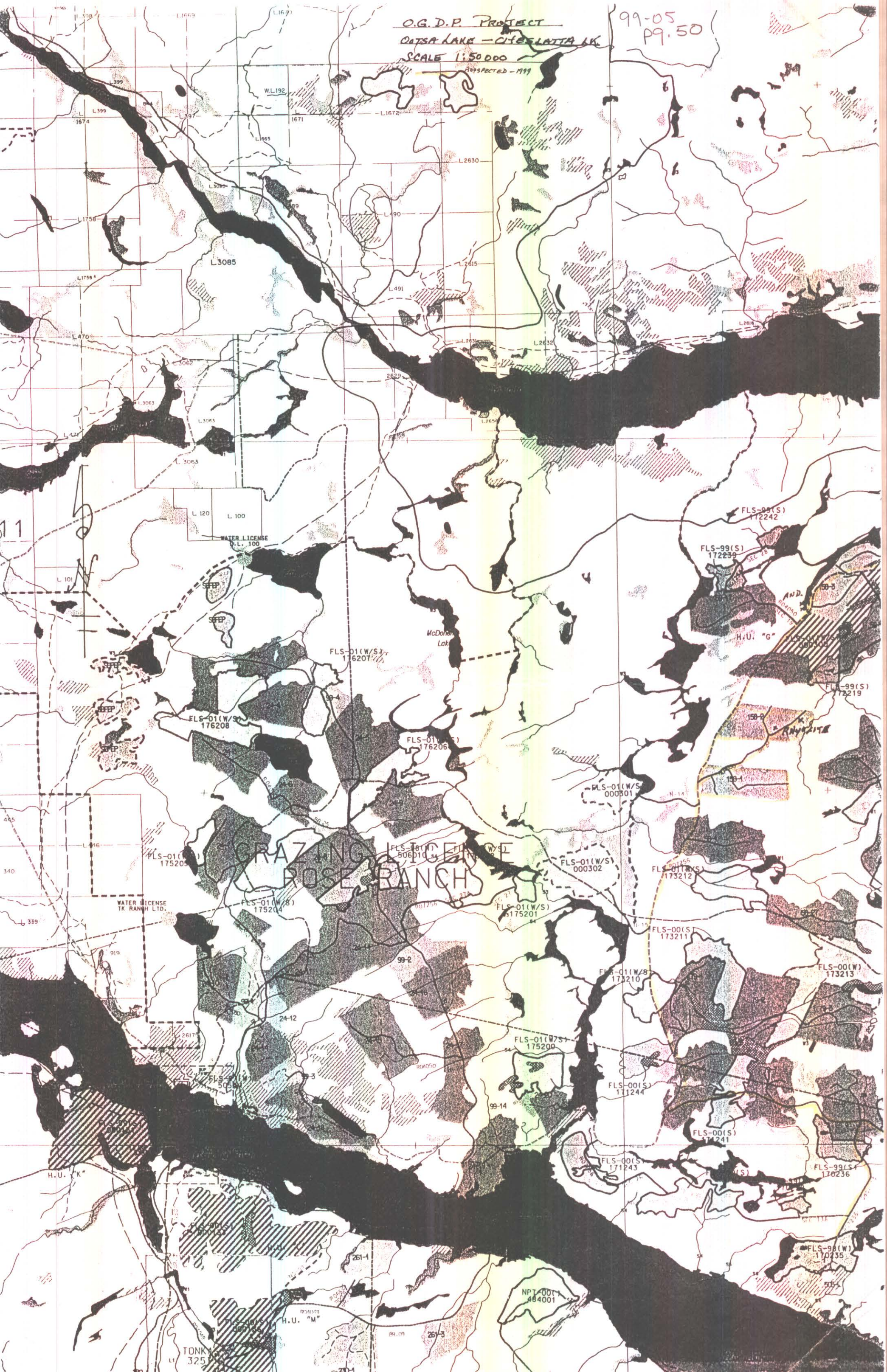
99-05
Pg. 49



O.G.D.P. PROJECT
OUTSA LAKE - CHELATA LAKE
SCALE 1:50,000

99-05
P9.50

Revised - 1999



CRAZING ROSE RANCH

McDonnell Lak

WATER LICENSE TK RANCH LTD.

TONK 325

NPT 001 484001

H.U. "M"

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FLS-99(S) 172239

FLS-99(S) 172219

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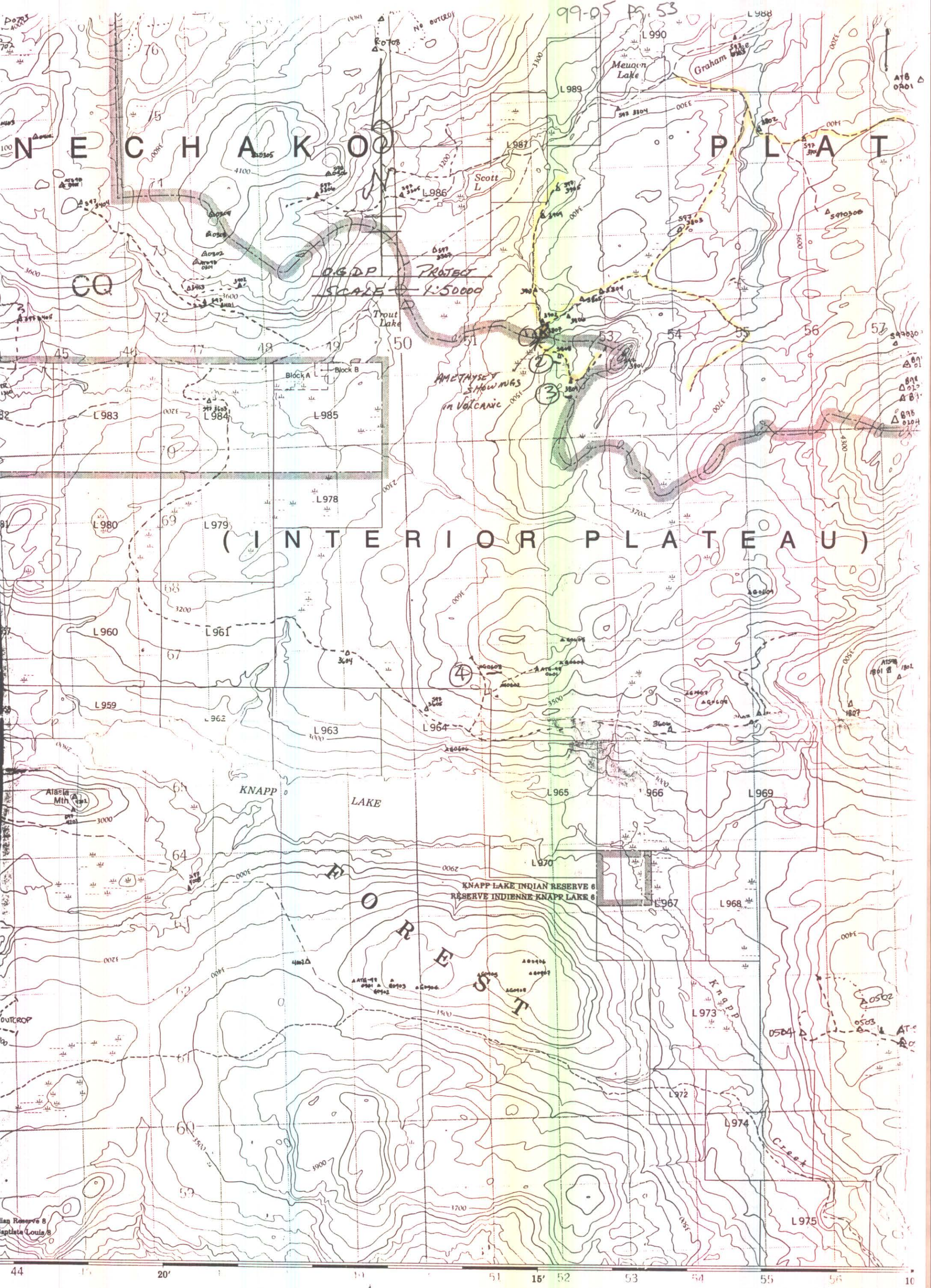


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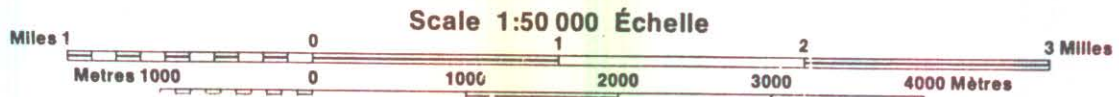


KNAPP LAKE
BRITISH COLUMBIA COLOMBIE-BRITANNIQUE

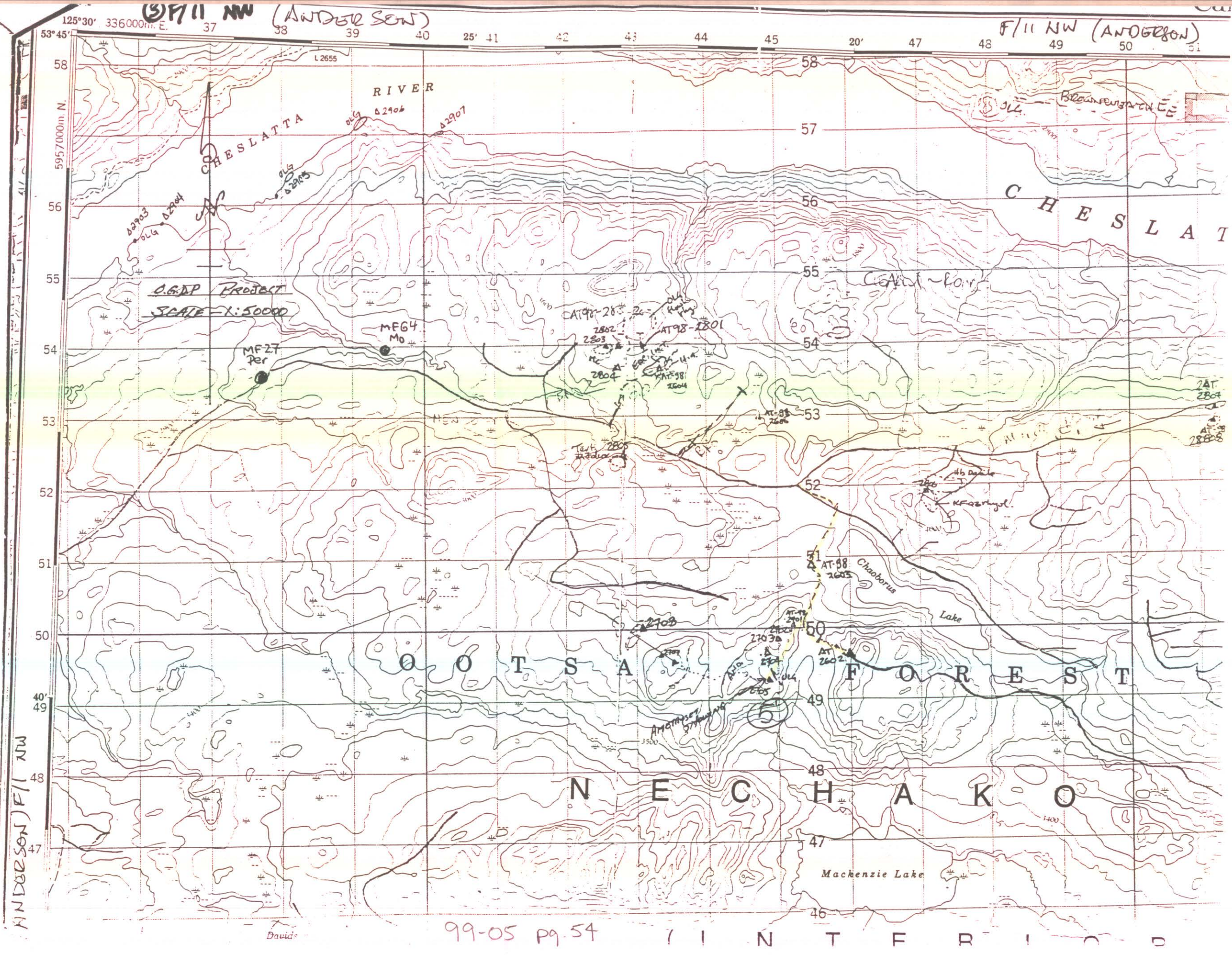
Information concerning bench marks
 be obtained from Geodetic Survey, Sur

CONVERSION
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 Feet 100 50 0

Routes:
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 2 voies ou plus moins de 2 voies
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 chaussée ou rue
 au portage
 une liste complète des signes, voir au verso



CONTOUR
 Elevations in
 North



ANDERSON) F/1 NW

ANDERSON SON

F/11 NW (ANDERSON)

O.G.D.P. Project
SCALE = 1:50000

99-05 Pp. 54

INTERIOR

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125° 3' 00"

N.T.S. 9425/WYE BESH1 MC'S #2,3,4

O.G.P.

335808

MINERAL & PLACER RESERVE
B.C. REG 245/96
1996 SEP 12
SUBJECT TO CONDITIONS

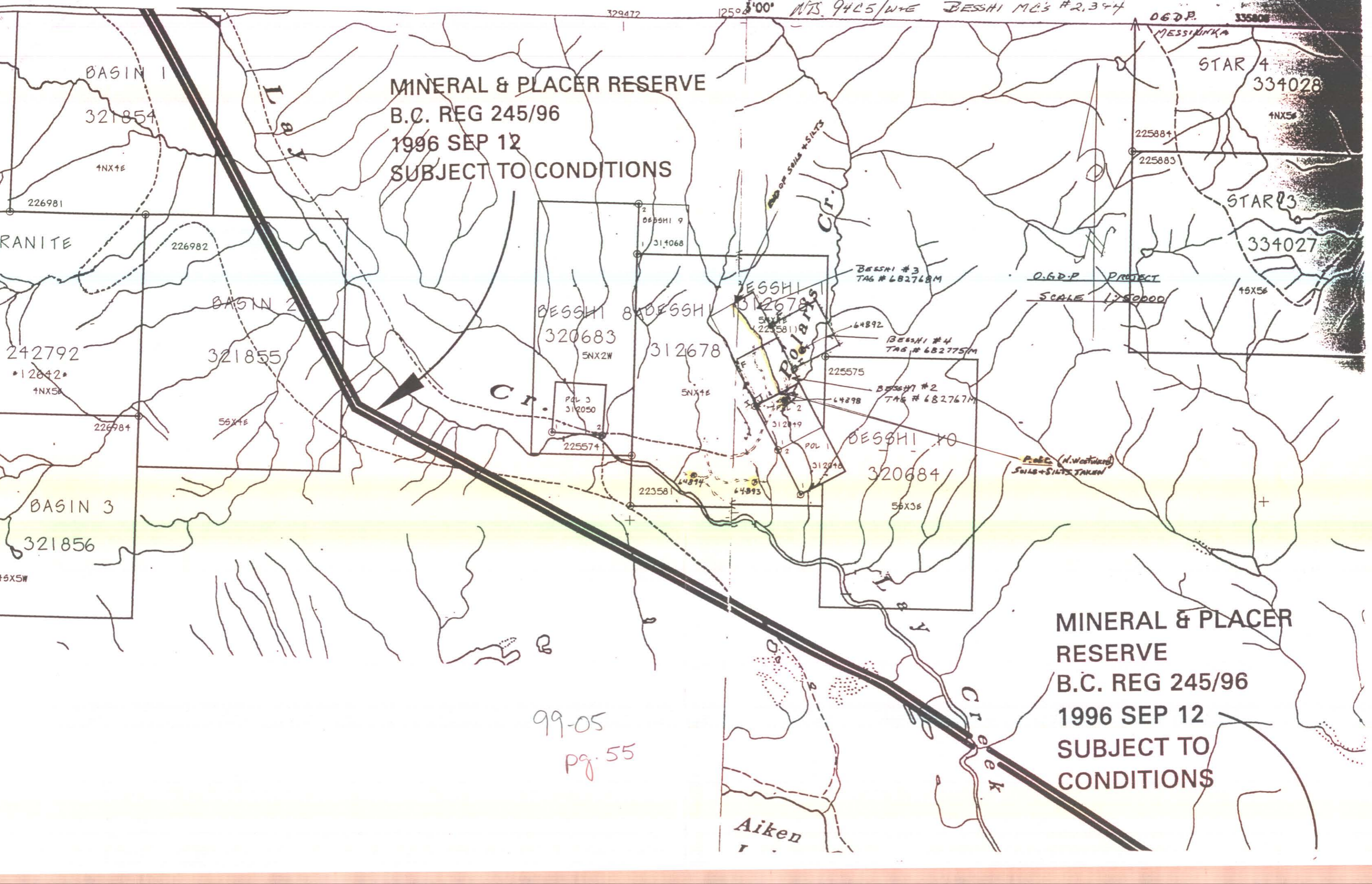
STAR 4
334028

STAR 3
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O.G.P. PROTECT
SCALE 1:50000

MINERAL & PLACER
RESERVE
B.C. REG 245/96
1996 SEP 12
SUBJECT TO CONDITIONS

99-05
Pg. 55



3-copies

ACME ANALYTICAL LABORATORIES LTD.
(ISO 9002 Accredited Co.)

852 E. HASTINGS ST. VANCOUVER BC V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716



GEOCHEMICAL ANALYSIS CERTIFICATE



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT ^{B.G.D.P.} ~~BESHI~~ File # 9902876 (a)

405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: R. Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	
64892	19.43	185.36	6.39	61.5	441	13.0	12.1	670	6.09	17.9	1.0	5.0	1.3	314.0	29.6	50	.21	181	.55	0.75	5.9	41.6	1.48	247.8	159	4.2	85	.218	16.2	1	24	141	3.4	.22	11.8	
64893	2.92	68.98	3.43	62.0	191	26.1	19.8	740	4.59	2.0	.3	3	4	55.8	.17	25	.14	54	.99	0.61	2.3	35.6	1.16	85.9	.347	1.1	65	.042	10.4	0	05	11	1.4	.07	3.8	
64894	2.20	61.06	2.75	75.0	365	13.2	9.0	692	4.60	2.1	.3	< 2	4	20.8	.02	1.59	.12	119	.76	.048	1.6	65.1	1.66	51.5	.358	< 1.2	04	.051	16	9	.07	15	5.3	11	7.6	
64898	20.81	58.66	3.31	89.3	165	21.4	15.0	705	4.19	11.1	3.5	< 2	1.5	104.5	.79	89	21	57	2.84	0.63	6.0	21.8	60	171.6	.412	1.1	25	.025	12.4	3	68	49	4.2	18	5.7	
RE 64895	19.23	59.30	3.32	90.1	173	21.9	14.9	708	4.18	10.9	3.6	< 2	1.4	106.5	.84	88	21	58	2.84	0.63	6.0	21.9	59	169.7	.410	1.1	24	.025	11.4	3	68	42	4.2	21	5.7	
STANDARD DS2	14.40	135.08	31.49	171.5	254	38.7	13.3	847	3.31	65.5	22.0	206	8.3	1	32.2	11.48	9.98	11.63	84	.57	0.86	14.3	181.7	64	151.6	.120	2.1	89	.040	17.7	1.1	98	259	2.6	1.95	6.3

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.

- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 13 1999 DATE REPORT MAILED: *Aug 30/99* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

3-CADRES

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GEOCHEMICAL ANALYSIS CERTIFICATE



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT ^{OGD-12} ~~BESHI~~ File # 9902876 (b)
405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: R. Keefe

SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
64892	1.14	.1	.10	5.2	14.3	.6	.97	3.9	9.08	14.1	.08	11	48.7
64893	.16	<.1	.24	3.3	4.0	.4	1.31	9.5	4.67	5.6	<.02	3	12.6
64894	.26	.1	.09	4.5	5.1	.5	.60	7.2	3.39	3.7	.02	6	13.1
64898	.14	.1	.40	3.4	5.6	1.0	1.12	13.5	8.65	13.8	.06	38	15.2
RE 64898	.14	.1	.46	3.3	5.7	1.0	1.10	13.6	8.89	14.0	.06	30	15.2
STANDARD DS2	2.81	<.1	2.01	14.3	3.2	23.6	.02	4.2	5.71	31.9	5.97	<1	13.9

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER FOLLOWED BY ANALYSIS BY ICP/ES & MS. THIS LEACH IS PARTIAL FOR ALL ELEMENTS.

SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 13 1999 DATE REPORT MAILED: *Aug 30/99* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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GEOCHEMICAL ANALYSIS CERTIFICATE



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT O.G.D.P. File # 9904244 (a)

405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: Ralph Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
167904 - <i>OSW</i>	9.37	80.65	10.65	72.4	139	65.7	22.8	151	4.62	3.3	2.8	2.8	12.3	19.5	.06	.14	1.15	35	.14	.060	40.0	33.1	1.28	103.4	.055	<1	2.08	.026	.70	1.9	.46	<5	1.1	.08	5.9
167905 - <i>Pat</i>	3.98	10.23	1.56	18.8	18	4.3	1.5	57	.65	7.6	.8	.9	7.1	6.9	.07	.13	.07	2	.05	.019	3.4	10.1	.04	100.2	.012	1	.51	.115	.24	2.9	.12	<5	<.1	<.02	1.1
167906 - <i>"</i>	2.47	5.60	.19	.9	4	7.3	.6	49	.32	2.1	<.1	.9	.1	.8	.01	.10	<.02	<2	.01	.002	<.5	23.3	.01	3.6	.006	<1	.02	.004	.01	9.8	<.02	<.1	<.02	.1	
167914 - <i>70.4</i>	.43	11.34	1.07	58.8	2	93.4	40.3	725	5.63	1.7	.6	.6	1.0	43.9	.02	.25	<.02	190	1.57	.122	7.0	158.4	3.85	23.1	.257	10	3.39	.721	.47	.5	.02	<.1	<.02	9.7	
RE 167914	.41	10.70	.97	57.0	2	91.0	39.3	701	5.43	1.7	.6	.3	1.0	41.3	.01	.23	<.02	181	1.48	.119	7.3	158.6	3.72	22.2	.232	9	3.29	.699	.45	.5	.02	<.1	<.02	9.3	
STANDARD DS2	14.28	134.59	28.16	161.1	256	36.9	12.2	818	3.23	61.3	21.4	211.1	3.7	29.6	11.29	10.73	11.36	80	.56	.072	16.9	170.7	.60	146.6	.115	1	1.74	.030	.15	8.0	1.89	255	2.3	1.82	5.9

GROUP 1F30 - 30.00 GM SAMPLE, 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML, ANALYSIS BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 2 1999 DATE REPORT MAILED: *Nov 12/99* SIGNED BY: *C. Leong* .D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT O.G.D.P. File # 9904244 (b)

405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: Ralph Keefe

SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
167904	3.65	<.1	.12	58.3	2.3	.6	2.67	1.6	12.46	73.2	.02	12	30.9
167905	.33	<.1	.08	5.4	.6	.4	.05	2.6	5.62	7.3	<.02	3	1.5
167906	.02	<.1	.08	.3	.1	.3	<.01	.3	.08	.2	<.02	<1	.3
167914	.78	.2	.05	21.0	4.4	.3	<.01	9.9	6.94	11.4	<.02	2	24.1
RE 167914	.76	.2	.05	20.2	4.2	.3	<.01	9.2	6.62	10.8	<.02	<1	23.1
STANDARD DS2	2.80	<.1	2.05	15.0	3.1	25.6	.03	3.0	7.93	31.1	5.18	<1	14.1

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 2 1999 DATE REPORT MAILED: Nov 15/99 SIGNED BY: *C. Leong* TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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852 E. HASTINGS ST. VANCOUVER BC V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716



*Rock Quarry
Osilanka*

GEOCHEMICAL ANALYSIS CERTIFICATE



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT O.G.D.P. File # 9902877 (a)

405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: R. Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
64895	.64	23.24	89.41	30.6	503	87.3	42.8	995	10.23	282.6	.3	24.9	3.4	423.9	.20	2.28	1.10	2	13.24	.014	2.1	6.3	4.08	103.9	<.001	<1	.21	.014	.10	2.9	.03	<5	1.1	.52	.9
64896	.23	1.23	5.48	2.8	17	2.4	1.2	385	.48	2.4	<.1	1.6	.7	327.3	.05	.09	.03	<2	33.36	.009	2.6	2.3	.21	31.8	<.001	<1	.02	.005	.02	1.2	<.02	<5	.4	.06	.1
RE 64896	.22	.77	5.59	2.1	16	2.9	1.2	384	.48	2.4	<.1	.6	.7	335.2	.05	.09	<.02	<2	33.40	.009	2.6	2.3	.21	32.0	<.001	<1	.02	.005	.02	1.2	<.02	<5	.3	.06	.1
STANDARD DS2	14.40	135.08	31.49	171.5	254	38.7	13.3	847	3.31	65.5	22.0	206.8	3.1	32.2	11.48	9.98	11.63	84	57	.086	14.3	181.7	.64	151.6	.120	2	1.89	.040	.17	7.1	1.98	259	2.6	1.95	6.3

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.

THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.

- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 13 1999

DATE REPORT MAILED: *Aug 30/99*

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT O.G.D.P. File # 9902877 (b)
405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: R. Keefe

SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
64895	.22	.1	.06	4.7	1.6	.2	7.29	.3	4.87	5.7	.03	1	2.3
64896	.03	<.1	.04	.6	.7	<.1	.02	.1	1.91	6.5	<.02	<1	.5
RE 64896	.03	<.1	.04	.7	.8	<.1	.04	.1	1.97	6.5	<.02	<1	.4
STANDARD DS2	2.81	<.1	2.01	14.3	3.2	23.6	.02	4.2	5.71	31.9	5.97	<1	13.9

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER FOLLOWED BY ANALYSIS BY ICP/ES & MS. THIS LEACH IS PARTIAL FOR ALL ELEMENTS.

- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 13 1999 DATE REPORT MAILED: *Aug 30/99* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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*N. of Pittmead
Rock*

GEOCHEMICAL ANALYSIS CERTIFICATE



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT OGD P File # 9901987
405 - 470 Granville St., Vancouver BC V6C 1V5

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*	Hg
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb	ppb
070543 DR	2	8	20	79	.6	2	1	533	2.43	31	<8	<2	3	12	<.2	3	5	6	.25	.076	24	<1	.38	134	<.01	<3	1.15	.05	.28	<2	3	10
070544 DR	2	28	16	20	<.3	2	<1	120	.87	63	<8	<2	9	12	.2	<3	<3	9	.35	.034	33	<1	.04	32	<.01	<3	.59	.03	.32	<2	2	30
070545 DR	1	25	7	54	<.3	3	1	103	.83	3	<8	<2	16	40	<.2	5	<3	12	.37	.022	29	2	.15	108	.01	<3	.78	.02	.15	3	1	20
070546 DR	4	4	11	17	<.3	4	<1	118	1.45	81	<8	<2	7	10	<.2	3	<3	12	.07	.012	18	3	.04	24	.01	<3	.43	.03	.23	4	1	185
070549 DR	2	3	14	41	<.3	2	<1	68	.62	32	<8	<2	7	1	.2	<3	5	5	.01	.004	27	6	.02	11	.02	<3	.25	.05	.19	4	1	125
RE 070549 DR	1	5	13	40	<.3	2	1	61	.60	30	<8	<2	7	<1	.2	<3	<3	5	.01	.003	26	6	.01	6	.02	<3	.24	.04	.18	3	1	115

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
 ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
 - SAMPLE TYPE: ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm) HG ANALYSIS BY FLAMELESS AA.
 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 2 1999 DATE REPORT MAILED: *July 8/99* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SILT

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT OGDG File # 9901988
405 - 470 Granville St., Vancouver BC V6C 1V5

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*	Hg
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm	ppb	ppb
070547 DR	1	13	19	54	1.4	8	6	1021	1.85	7	8	<2	2	76	.3	8	4	39	.58	.072	15	7	.28	179	.05	<3	1.48	.05	.13	<2	5	70
070548 DR	1	10	5	49	.3	8	6	630	2.19	9	<8	<2	3	48	<.2	<3	3	52	.49	.070	14	7	.29	113	.06	<3	1.00	.03	.09	<2	3	55
RE 070548 DR	1	13	11	53	.3	11	7	666	2.41	5	<8	<2	3	51	<.2	7	4	59	.53	.074	15	10	.31	126	.07	<3	1.08	.04	.10	<2	4	80
STANDARD C3/AU-S	27	67	37	171	5.5	37	13	789	3.41	58	13	2	19	29	23.5	20	23	81	.59	.087	19	170	.62	157	.10	17	1.90	.04	.16	15	53	925
STANDARD G-2	2	5	6	45	<.3	8	5	545	2.08	<2	<8	<2	4	74	<.2	<3	8	41	.67	.094	8	75	.61	221	.15	4	1.00	.09	.48	2	<1	10

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
- SAMPLE TYPE: SILT AU* - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm) HG ANALYSIS BY FLAMELESS AA.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 2 1999 DATE REPORT MAILED: July 8/99 SIGNED BY: C. Leong D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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GEOCHEMICAL ANALYSIS CERTIFICATE



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT O.G.D.P. File # 9904245 (a)

405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: Ralph Kasfe

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppb	ppm	ppm	ppm	
167915	1.51	38.51	4.47	74.9	94	15.2	10.6	3243	2.64	4.9	.7	9.9	.7	37.7	.25	.29	.06	56	.59	.093	12.2	25.1	.49	171.4	.055	6	1.36	.009	.04	<.2	.12	115	.8	<.02	4.2

GROUP 1F30 - 30.00 GM SAMPLE, 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML, ANALYSIS BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN - 100 PPM; MO, CO, CD, SB, BI, TH, U, B - 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR - 10,000 PPM.
- SAMPLE TYPE: SILT

DATE RECEIVED: NOV 2 1999 DATE REPORT MAILED: Nov 12/99 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE



Hudson Bay Expl. & Dev. Co. Ltd. PROJECT O.G.D.P. File # 9904245 (b)

405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: Ralph Keefe

SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
167915	.65	<.1	.63	4.2	3.7	.4	.08	.8	11.14	23.8	.02	<1	<.1

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT

DATE RECEIVED: NOV 2 1999 DATE REPORT MAILED: Nov 12/99 SIGNED BY: *C.L.* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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GEOCHEMICAL ANALYSIS CERTIFICATE



SILTS

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT O.G.D.P. File # 9902875 (a)



405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: R. Keefe

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
64888	1.45	33.64	6.17	76.1	192	21.5	11.4	1699	2.93	2.8	.9	7.8	.4	80.9	.63	.41	.10	64	1.40	.074	7.3	30.4	.48	192.5	.032	4	1.60	.015	.05	<.2	.07	110	2.1	.03	4.8
64889	1.41	18.93	4.72	75.6	113	19.2	10.8	3259	2.97	2.4	.7	44.1	.6	62.8	.61	.29	.07	58	.84	.066	7.6	26.2	.42	189.5	.035	3	1.45	.013	.04	<.2	.08	90	.9	.02	4.1
64890	1.27	29.70	8.11	114.1	108	19.8	11.8	846	3.25	8.2	.6	6.7	.9	54.6	.91	1.09	.09	95	.76	.076	8.9	30.1	.49	138.3	.058	3	1.29	.016	.05	<.2	.06	173	.8	.04	4.4
64891	.96	22.11	5.44	65.8	56	17.6	11.7	1222	2.76	3.1	.8	12.1	1.1	41.3	.23	.66	.07	78	.60	.066	6.7	28.9	.52	127.7	.056	4	1.26	.014	.05	<.2	.05	47	.8	.02	4.2
RE 64889	1.47	19.88	4.70	78.0	112	19.4	11.0	3396	3.03	4.5	.7	8.1	.5	63.2	.64	.32	.06	59	.86	.068	7.7	26.0	.42	193.2	.033	2	1.44	.013	.04	<.2	.08	87	.9	.03	4.2
STANDARD DS2	14.51	135.79	32.10	171.6	298	38.2	13.2	853	3.35	63.7	21.4	205.7	3.5	31.7	11.34	10.16	11.38	84	.58	.085	14.4	181.3	.63	150.6	.119	3	1.87	.042	.17	7.3	1.97	257	2.8	1.95	6.2

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: SILT Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 13 1999 DATE REPORT MAILED: Aug 30/99 SIGNED BY: C. Leong, D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT O.G.D.P. File # 9902875 (b)

405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: R. Keefe

SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
64888	.46	<.1	.74	6.0	4.9	.4	.08	1.6	7.31	13.5	.03	7	9.5
64889	.48	<.1	.42	5.2	4.5	.4	.05	1.0	6.76	16.6	.02	2	9.2
64890	.61	.1	.54	4.0	4.6	.4	.03	1.2	7.24	15.7	.03	2	9.0
64891	.59	.1	.42	4.0	4.3	.4	.03	1.3	5.41	14.9	.02	2	9.1
RE 64889	.47	.1	.46	5.2	4.4	.4	.04	1.1	6.84	16.6	.03	2	9.1
STANDARD DS2	2.52	.1	2.02	14.3	3.4	23.1	.03	3.8	5.49	29.3	5.74	<1	13.7

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: SILT Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 13 1999 DATE REPORT MAILED: *Aug 30/99* SIGNED BY: *C. Leong* TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS