1973 Geochemical Report

McCLAIR CREEK PROPERTY

Claims Dew 1-74 inclusive
Located 5 miles west of Toodoggone Lake
Latitude 57°25' Longitude 127°05'
~~Liard~~ Omineca Mining Division 94 E 6

By D.G. Allen, P.Eng. (B.C.)
For Amax Potash Limited

94E/6E

Work was carried out during July 14-17, 1972
and August 15, 1972

4497

4497

1973 Geochemical Report

TITLE	McClair Creek Property (Dew Claims)
AUTHOR	D.G. Allen, P.Eng. (B.C.)
DATE	July 1973
COMMODITY	Cu-Ag
LOCATION-Area	Toodoggone Lake
-Mining Division	Liard
-Coordinates	Latitude 57°25' Longitude 127°05'
-NTS	94 E 6

AMAX VANCOUVER

TABLE OF CONTENTS

ILLUSTRATIONS

INTRODUCTION

The McClair Creek Property consists of 74 claims (Dew 1-74, recorded on July 12, 1972) lying near the confluence of McClair Creek with the Toodoggone River. The property covers the site of a placer gold operation conducted in the mid 1930's. It was staked on the basis of multi-element drainage and soil anomalies and on the presence of pyrite-rich monzonites.

GEOLOGY

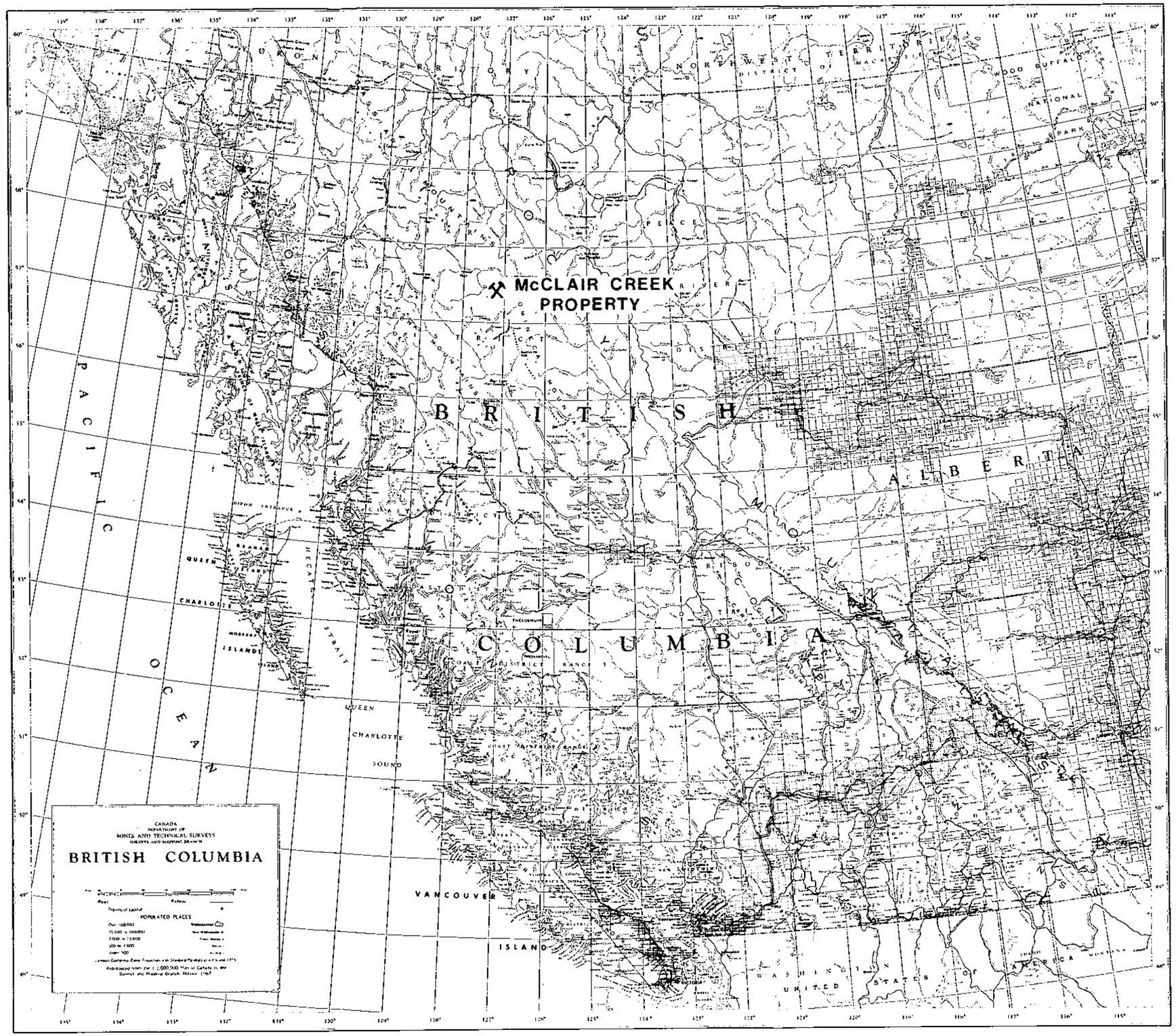
The claims cover an area of flat to gentle relief. Outcrop is limited to the canyon of McClair Creek, the area to the west of the canyon and the upper slopes of the northwest claims (Figure 5a).

The eastern part of the property is underlain mainly by pinkish orange porphyritic monzonite. Locally, up to 15% quartz is present. The rock contains phenocrysts of pink plagioclase up to 1 cm. in length in a fine grained pinkish-orange groundmass rich in K-feldspar. Biotite or chlorite pseduomorphs after biotite are disseminated throughout the groundmass. Where exposed in the McClair Creek canyon and to the west, the monzonite is rusty and weakly to intensely pyritized.

A heterogeneous assemblage of volcanic rocks, which consists of latite crystal tuff and hornblende feldspar porphyry phases of varied texture, is exposed on the northwest claims. Vague bedding at 109°/47°S was observed on the Dew 15 claim.

GEOCHEMISTRY

Soil sampling at a spacing of 400 feet on lines 700 to 1000 feet apart was conducted over most of the property (Figures 5b and c). A few copper, lead, and zinc anomalies



LOCATION MAP

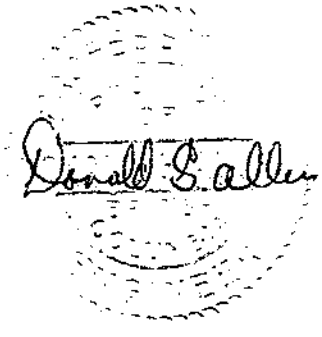
NTS File : 94 E 6
FIGURE 1

were found in two areas, the northwest claims, (presumably underlain by volcanic rocks) and along the west side of McClair Creek (underlain by monzonite). The rocks exposed in the anomalous area were carefully examined but only disseminated pyrite was found.

The best geochemical value on a rock chip was 1400 ppm zinc, although no zinc minerals were observed.

July 1973

D.G Allen, P.Eng. (B.C.)



McCLAIR CREEK PROPERTY - Amax Potash Limited

APPENDIX I — Statement of Costs

Claim Name	Record Number	Date Recorded
Dew 1-74 inclusive	112126-112198 inclusive	July 12, 1972

Period of Work - July 14-17, 1972 and August 15, 1972

Summary of Work - Geochemical Soil Survey- 15 line miles
Geologic Mapping - 2.1 square miles
Geochemical Analysis - 388 samples

Personnel Employed

D.G. Allen - 601-535 Thurlow Street, Vancouver 5, B.C.		
Geologist in Charge	1 day @ $70.00/day	70.00
D.K. Dubetz - 5143 Lansdown Drive, Edmonton, Alberta		
Senior Assistant	4 days @ $23.00/day	92.00
D.R. MacQuarrie - 1862 Westover Road, North Vancouver, B.C.		
Junior Assistant	4 days @ $17.00/day	68.00
J.T. Copper - #12 - 6320 E. Boulevard, Vancouver 13, B.C.		
Junior Assistant	4 days @ $17.00/day	68.00
Transportation - Helicopter access and return from Toodoggone Lake	1 hour @ $150.00/hour	150.00
Geochemical Sample Analyses - 388 samples for Cu, Mo, Zn, Pb, and Ag	@ $2.50/sample	970.00
Board	13 man days @ $10.00/man day	130.00
		$1,548.00

The work is to be applied for one year on Dew #33-38 and #59-64

Declared before me at the City of Vancouver, in the Province of British Columbia, this 23 day of July 1973, A.D.

Elizabeth K Boyd

Donald G Allen

A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.

SUB-MINING RECORDER

APPENDIX II - Analytical Results and Procedures

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AMAX EXPLORATION INC. ANALYTICAL REPORT

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

DATE July 27, 1972 TYPE SAMPLES SOIL & SILT

PROJECT 6495-A LOCATION STIKINE

REQUESTED BY D.G. ALLEN DISPOSITION OF REJECTS DISCARD

No.	Sample	pH ✓	Mo ✓	Cu ✓	Ni ✓		Co	Mn	Fe%	Ag	Zn	Pb		No.
16	2GDS 40		1	12	12		20	420	4.0	1.0	196	22		16
17	41		1	32	8		24	960	5.1	1.5	206	72		17
18	42	5.5	1	14	12		14	600	3.2	.5	62	20		18
19	43		1	62	16		22	1100	6.5	2.5	332	64		19
20	44		1	12	12		16	520	2.3	.5	76	20		20
21	45		1	6	12		12	260	2.3	.5	64	14		21
22	46	5.3	1	4	12		10	200	1.7	.5	40	8		22
23	47		1	2	12		12	260	2.2	1.0	62	12		23
24	48		1	6	14		14	360	2.9	1.0	80	16		24
25	49		1	4	10		16	420	3.5	1.0	122	20		25
26	50	5.1	1	2	12		20	620	3.7	.5	122	16		26
27	51		1	2	8		16	260	3.1	.5	72	12		27
28	52		1	6	8		12	400	3.1	.5	88	12		28
29	53		1	12	8		16	360	4.7	1.5	122	24		29
30	54	5.1	1	10	8		20	1160	4.0	1.0	124	24		30
31	55		1	16	12		12	1000	3.7	3.5	356	32		31
32	56		1	52	12		20	700	5.1	1.5	296	30		32
33	57		1	24	16		16	620	4.2	1.0	112	50		33
34	58	5.5	1	16	16		20	720	3.9	1.0	220	28		34
35	59		1	12	14		20	920	4.3	1.5	176	34		35
36	60		1	12	20		16	400	3.2	1.5	116	20		36
37	61		1	24	20		12	420	3.2	1.0	112	26		37
38	62	5.6	1	20	12		16	400	3.4	2.5	22	20		38
39	GDS-63		1	12	16		12	360	6.2	1.5	74	26		39
40	G10			[illegible]	12		12	[illegible]	2.2		[illegible]	[illegible]		40

COMMENT:

DATE SAMPLES RECEIVED

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AMAX EXPLORATION INC. ANALYTICAL REPORT

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

DATE July 27, 1972 TYPE SAMPLES SOIL & SILT

PROJECT 495 A LOCATION STIKINE

REQUESTED BY D. G. ALLEN DISPOSITION OF REJECTS DISCARD

No.	Sample	pH	Mo ppm	Cu ppm	Ni ppm	Co ppm	Mn ppm	Fe %	Ag ppm	Zn ppm	Pb ppm	No.
01	RGDS-64		4	20	12	20	320	4.1	1.0	96	36	01
02	65		1	2	12	16	220	3.1	2.5	94	24	02
03	66		3	16	20	16	360	3.3	1.0	60	24	03
04	67	5.2	1	2	24	16	360	2.9	.5	62	22	04
05	68		1	14	20	14	160	2.9	.5	20	20	05
06	69		1	12	22	16	320	3.6	.5	24	20	06
07	70		7	16	14	20	320	4.2	1.0	22	56	07
08	71	5.4	1	16	30	16	400	2.5	.5	56	16	08
09	72		1	10	24	24	620	3.1	.5	322	20	09
10	73		1	16	16	24	960	3.1	1.0	136	28	10
11	74		1	12	20	20	600	3.1	.1	100	20	11
12	L 75	5.0	1	16	24	20	560	2.5	.1	96	20	12
13	S 76	5.4	1	2	20	22	460	3.0	.1	192	16	13
14	77		1	20	22	12	600	3.1	.1	116	26	14
15	78		1	24	16	24	720	2.9	.1	112	28	15
16	79		1	24	14	36	2000	3.3	1.0	172	32	16
17	80	5.1	1	12	16	16	640	3.2	.1	120	24	17
18	81		1	10	14	20	320	2.9	.1	102	20	18
19	82		1	8	12	12	320	2.1	.1	64	20	19
20	83		1	12	16	14	240	2.9	.1	56	18	20
21	84	5.0	1	2	14	12	360	2.4	.1	60	16	21
22	85		1	6	14	14	260	2.5	.1	64	18	22
23	86		1	2	16	14	220	2.7	.1	56	16	23
24	87		1	16	12	16	440	3.1	.1	80	20	24
25	88	5.2	1	12	8	16	320	3.2	.1	72	20	25
26	89		1	10	12	16	360	2.5	.1	42	12	26
27	90		1	2	14	16	220	2.1	.1	74	22	27
28	91		1	2	16	12	360	2.1	.1	64	20	28
29	92	5.6	1	2	16	16	360	3.2	1.0	62	20	29
30	93		1	12	14	16	400	2.7	.1	72	22	30
31	94		1	2	16	16	220	2.2	.1	56	18	31
32	95		1	2	20	16	320	2.5	.1	24	20	32
33	96	5.4	1	2	16	16	220	2.6	.1	60	16	33
34	97		1	2	20	14	240	2.7	1.0	52	16	34
35	98		1	2	16	16	220	2.2	1.5	66	20	35
36	99		1	2	22	20	320	2.2	1.5	64	18	36
37	L 100	6.1	1	14	12	24	660	2.2	1.0	116	26	37
38	S 101	5.3	1	12	12	12	560	3.4	1.0	102	28	38
39	GDS-102		1	2	16	16	220	2.2	1.0	96	20	39
40	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	40

COMMENT:

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AMAX EXPLORATION INC. ANALYTICAL REPORT

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

DATE July 27, 1972 TYPE SAMPLES SOIL + SILT

PROJECT 495-A LOCATION STIKINE

REQUESTED BY D.G. ALLEN DISPOSITION OF REJECTS DISCARD

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	%Fe	Ag	Zn	Pb			No.
01	2GDS-103		1	12	16	14	320	2.2	.5	62	16			01
02	104		1	16	20	12	220	2.0	.5	62	16			02
03	105A		1	12	20	20	360	2.4	.5	96	16			03
04	105	5.4	1	2	20	14	220	2.2	.5	44	12			04
05	106		1	12	20	20	360	3.1	.5	72	18			05
06	107		1	8	16	16	400	2.9	.5	74	16			06
07	108		1	12	16	20	220	3.1	.5	242	22			07
08	109	5.0	1	12	18	16	220	2.0	.5	70	20			08
09	110		1	2	8	12	240	2.3	.5	60	12			09
10	111		1	2	16	12	240	2.4	.5	46	10			10
11	112		1	10	16	12	260	2.2	.5	67	14			11
12	113	5.0	1	16	22	24	520	4.4	2.5	122	24			12
13	114		1	8	20	16	320	2.6	.5	52	16			13
14	115		1	16	20	20	400	4.6	3.5	122	28			14
15	116		1	12	16	20	420	4.1	1.0	90	32			15
16	117	5.3	1	10	12	14	360	2.7	.5	62	14			16
17	118		1	6	8	16	220	2.0	.5	62	14			17
18	119		1	10	12	12	220	3.4	.5	100	18			18
19	120		3	8	12	16	320	2.2	1.5	96	18			19
20	121	5.1	4	62	24	32	2400	4.6	2.0	220	58			20
21	122		9	26	12	24	740	4.9	4.0	212	92			21
22	123		7	*620	32	60	*4000	5.4	4.5	*4100	66			22
23	125		7	96	16	32	1260	4.1	2.5	200	52			23
24	126	4.7	6	20	8	16	460	3.2	3.0	62	178			24
25	1-128	4.6	3	10	16	40	40	2.0.0	2.5	62	16			25
26	S 129		9	12	12	40	260	2.0.0	3.0	44	32			26
27	130		1	36	24	26	760	3.2	1.0	130	32			27
28	GDL 131		10	44	10	40	2000	5.3	1.5	*460	40			28
29	G 7		11	***	***	12	120	0.9	—	40				29
30														30
31														31
32														32
33														33
34														34
35														35
36														36
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38														38
39														39
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AMAX EXPLORATION INC. ANALYTICAL REPORT

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

DATE Aug 10/72 TYPE SAMPLES Soil & Silt

PROJECT 6-45 LOCATION Stikine Recon.

REQUESTED BY D. ALLEN DISPOSITION OF REJECTS Discard

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	As	Zn	Pb			No.
01	GDS 132		3	176	16	22	3360	7.2	1.0	1230	480			01
02	133		1	26	14	24	1220	4.2	.5	260	58			02

AMAX EXPLORATION INC. ANALYTICAL REPORT

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

DATE July 27, 1972 TYPE SAMPLES SOIL + SILT

PROJECT 145-A LOCATION STIKINE

REQUESTED BY D.G. ALLEN DISPOSITION OF REJECTS DISCARD

No.	Sample	pH	Mo ppm	Cu ppm	Ni ppm		Co ppm	Mn ppm	Fe%	Ag ppm	Zn ppm	Pb ppm		No.
06	S46		1	12	2		10	240	2.6	.5	142	20		06
07	47		1	2	4		2	240	2.9	.5	78	16		07
08	48		1	2	4		2	220	2.0	.5	46	12		08
09	49	5.5	1	12	12		2	240	2.6	.5	48	16		09
10	50		1	8	10		2	240	2.3	.5	42	14		10
11	51		1	14	20		12	320	2.2	.5	68	22		11
12	52		1	10	12		10	260	2.1	.5	64	20		12
13	53	5.5	1	20	24		12	400	2.5	1.0	106	32		13
14	54		1	4	2		6	120	2.2	.5	40	16		14
15	55		1	2	16		2	240	2.5	.5	58	16		15
16	56		1	6	12		6	240	2.4	.5	72	14		16
17	57	5.5	1	4	2		2	240	2.1	.5	52	16		17
18	58		1	2	12		2	240	2.2	.5	60	12		18
19	L60	5.5	1	2	2		12	420	2.6	.5	112	24		19
20	S61		1	92	40		20	1260	2.7	2.0	490	64		20
21	62		1	4	2		4	240	2.4	.5	28	14		21
22	63	5.5	1	4	12		6	220	2.5	.5	60	16		22
23	64		1	6	12		2	220	2.3	.5	50	16		23
24	65		1	4	12		2	240	2.6	.5	50	18		24
25	66		1	4	2		6	420	2.6	.5	52	14		25
26	67	5.1	1	2	20		2	360	2.2	.5	80	12		26
27	68		1	2	10		12	1120	2.6	.5	76	16		27
28	69		1	6	2		2	220	2.7	.5	74	14		28
29	70		1	4	1		6	240	2.0	.5	48	16		29
30	71	5.1	1	6	2		2	440	2.5	.5	68	16		30
31	72		1	2	4		2	360	2.4	.5	134	20		31
32	73		1	4	4		6	220	2.5	.5	48	16		32
33	74		1	6	2		2	360	2.3	.5	90	20		33
34	75	5.5	1	2	2		2	220	2.2	.5	116	16		34
35	76		1	20	10		2	660	2.9	1.0	132	32		35
36	77		5	40	10		12	440	6.2	2.0	186	76		36
37	78		4	20	4		12	400	5.4	2.0	156	22		37
38	79	5.2	4	16	2		12	540	6.4	1.0	136	72		38
39	80		6	40	12		12	440	6.2	1.5	136	120		39
40	G7													40

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AMAX EXPLORATION INC. ANNUAL REPORT

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

DATE July 27 1972 TYPE SAMPLES SOIL & SILT

PROJECT 495-A LOCATION STIKINE

REQUESTED BY D. G. ALLEN DISPOSITION OF REJECTS DISCARD

No.	Sample	pH	Mo	Cu	Ni		Co	Mn	Fe%	Ag	Zn	Pb		No.
01	2GCS-81		1	16	2		2	1040	3.6	.1	104	22		01
02	82		1	28	16		12	1160	3.6	.1	140	100		02
03	83		1	16	12		2	440	2.5	.1	470	92		03
04	84	5.3	1	16	16		12	760	3.1	.1	96	22		04
05	85		1	60	12		28	*4400	5.5	2.5	2620	*6000		05
06	86		1	16	2		4	320	2.2	.1	316	36		06
07	87		2	30	16		16	1720	3.6	.1	324	70		07
08	88	5.4	1	2	12		12	660	3.4	.1	188	60		08
09	89		1	12	16		12	400	3.7	.1	130	64		09
10	90		1	10	12		10	360	2.7	.1	168	32		10
11	91		1	12	4		2	320	3.2	.1	202	36		11
12	92	4.9	1	2	10		12	320	2.7	.1	120	20		12
13	93		1	2	2		2	320	3.5	.1	92	20		13
14	94		1	12	12		2	440	3.0	.1	176	34		14
15	95		1	30	2		10	400	3.6	.1	620	60		15
16	96	4.6	1	2	2		2	160	3.1	.1	260	60		16
17	97		3	12	14		10	660	6.5	.1	450	92		17
18	98		1	2	2		2	660	3.4	.1	200	62		18
19	99		1	52	6		6	660	2.5	.1	550	180		19
20	100	5.2	1	12	20		2	420	3.6	.1	124	60		20
21	101		2	2	2		2	440	3.5	.1	114	32		21
22	102		3	222	22		16	1260	3.6	4.5	2680	242		22
23	103		2	12	14		10	360	3.1	1.0	140	32		23
24	104	5.9	1	*700	20		12	1760	1.9	5.0	*2010	62		24
25	105		1	12	2		2	600	3.5	.1	188	42		25
26	106		1	2	2		2	620	4.1	.1	226	22		26
27	107		1	16	14		2	240	2.7	.1	300	32		27
28	108	4.6	1	42	12		12	260	2.7	.1	246	44		28
29	L110		1	22	2		12	1120	3.0	1.5	1400	112		29
30	S111		1	2	4		4	200	1.7	.1	60	20		30
31	112		1	4	4		4	320	2.4	.1	60	12		31
32	113	5.2	1	22	10		2	420	2.9	.1	90	20		32
33	114		1	2	2		2	600	2.4	.1	88	16		33
34	115		1	2	12		2	420	2.9	.1	152	12		34
35	116		1	20	32		14	1120	2.5	2.5	410	64		35
36	117	5.2	4	44	36		14	1220	2.6	2.0	156	42		36
37	118		3	122	26		12	1440	2.2	8.0	144	56		37
38	119		1	10	10		6	920	2.3	.5	94	22		38
39	GCS-120		1	4	16		4	320	2.0	.5	84	26		39
40	[illegible]		[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		40

COMMENT:

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AMAX EXPLORATION INC. ANALYTICAL REPORT

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

DATE July 27, 1972 TYPE SAMPLES SOIL

PROJECT 6495-A LOCATION STIKINE

REQUESTED BY D. G. ALLEN DISPOSITION OF REJECTS DISCARD

No.	Sample	pH	Mo	Cu	Ni		Co	Mn	Fe%	Ag	Zn	Pb		No.
01	2GCS-121		1	2	2		4	400	2.3	.5	105	22		01
02	122		1	4	6		6	200	2.4	.5	64	20		02
03	123		1	4	2		6	220	2.7	.5	68	16		03
04	124	6.7	1	2	12		2	220	2.4	.5	72	20		04
05	125		1	2	10		6	210	1.5	.5	86	32		05
06	126		1	24	20		12	1060	3.4	.5	80	40		06
07	127		1	12	2		4	360	2.1	.5	124	22		07
08	128	6.5	1	6	2		4	240	2.1	.5	56	12		08
09	129		1	4	2		6	360	2.7	.5	170	20		09
10	130		1	10	12		2	620	3.2	.5	138	22		10
11	131		1	12	10		10	460	2.2	.5	182	20		11
12	132	6.1	1	2	8		4	400	2.6	.5	130	24		12
13	133		1	4	10		2	240	2.0	.5	100	12		13
14	134		1	4	4		6	200	1.9	.5	52	16		14
15	135		1	2	10		2	220	2.0	.5	52	16		15
16	136	5.0	1	32	60		14	560	3.5	1.5	128	22		16
17	137		1	4	4		6	200	2.1	.5	84	16		17
18	138		1	2	14		2	460	2.2	.5	268	20		18
19	139		1	22	20		16	1120	2.3	1.5	310	96		19
20	140	6.1	1	2	12		2	300	2.4	.5	80	20		20
21	141		1	2	2		2	260	2.0	.5	56	16		21
22	142		1	12	6		6	320	2.9	2.5	270	40		22
23	143		1	2	4		4	120	2.1	.5	64	12		23
24	144	6.2	1	2	16		2	200	2.6	.5	66	16		24
25	145		1	10	20		2	320	3.4	.5	80	12		25
26	146		1	12	2		2	260	4.0	.5	188	20		26
27	147		1	12	20		12	320	3.7	.5	110	32		27
28	148	6.6	1	2	12		10	560	2.9	.5	80	16		28
29	149		1	2	4		2	220	2.5	.5	80	20		29
30	150		1	4	2		6	280	2.2	.5	60	16		30
31	151		1	2	10		2	220	2.0	.5	68	12		31
32	152	6.7	1	2	12		2	220	2.2	.5	72	12		32
33	153		1	6	2		2	220	2.9	.5	60	16		33
34	154		1	2	6		2	220	2.1	.5	134	16		34
35	155		1	24	24		16	620	4.0	1.0	270	32		35
36	156	6.7	3	22	24		16	620	6.2	1.0	202	32		36
37	157		2	12	16		16	660	2.2	.5	334	24		37
38	158		2	16	20		16	560	6.0	.5	146	20		38
39	159		2	16	16		12	520	6.0	.5	172	20		39
40	6.10		1	8	16		14	240	3.2	.5		20		40

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AMAX EXPLORATION INC. ANALYTICAL REPORT

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

DATE July 27, 1972 TYPE SAMPLES SOIL + SILT

PROJECT 495-A LOCATION STIKINE

REQUESTED BY D.G. ALLEN DISPOSITION OF REJECTS DISCARD

No.	Sample	pH	Mo	Cu	Ni		Co	Mn	Fe%	Ag	Zn	Pb		No.
01	2GCS-160		6	42	11		12	640	2.6	.5	98	30		01
02	161		2	22	20		14	560	4.1	.5	162	24		02
03	162		1	20	12		8	400	2.0	.5	130	14		03
04	163	6.0	8	42	24		12	700	2.2	.5	124	24		04
05	164		1	12	16		12	420	3.6	.5	148	20		05
06	165		1	12	16		12	520	2.6	.5	120	22		06
07	166		6	10	12		8	440	2.5	.5	142	20		07
08	167	5.7	1	12	10		10	620	2.2	.5	144	26		08
09	168		1	16	8		12	460	4.0	.5	122	40		09
10	169		1	12	12		8	520	2.2	.5	166	32		10
11	170		11	14	12		12	1420	2.3	.5	146	40		11
12	171	6.5	1	24	6		12	620	3.0	.5	94	22		12
13	172		1	20	12		12	660	3.6	.5	108	22		13
14	173		4	12	8		8	440	2.2	.5	84	22		14
15	174		1	12	8		12	660	3.0	.5	120	24		15
16	175	5.4	1	12	6		8	440	2.2	.5	152	22		16
17	176		1	10	8		8	440	2.2	.5	116	24		17
18	177		1	14	8		12	620	2.2	.5	176	22		18
19	178		1	10	12		8	460	3.4	.5	114	24		19
20	179	5.4	1	8	8		8	420	2.9	.5	100	26		20
21	180		1	12	12		12	1460	2.0	.5	330	24		21
22	181		1	12	14		8	520	2.2	.5	192	20		22
23	182		1	14	12		12	660	2.2	.5	234	24		23
24	183	5.9	1	14	12		14	1120	3.1	.5	186	22		24
25	184		1	12	10		12	460	3.2	.5	206	26		25

COMMENT:

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AMAX EXPLORATION INC. ANALYTICAL REPORT

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

DATE July 28, 1972 TYPE SAMPLES SOIL & SILT

PROJECT 8495-M LOCATION STIKINE

REQUESTED BY D.G. ALLEN DISPOSITION OF REJECTS DISCARD

No.	Sample	pH	Mo ppm	Cu ppm	Ni ppm		Co ppm	Mn ppm	Fe %	Ag ppm	Zn ppm	Pb ppm		No.
15	232	5.1	3	10	14		10	440	3.7	.5	124	26		15
16	233		3	4	8		4	240	1.4	.5	46	16		16
17	234		1	6	12		8	320	3.1	.5	72	22		17
18	235		2	4	12		2	220	2.3	.5	46	16		18
19	236	5.5	1	4	14		2	320	2.3	.5	68	16		19
20	237		1	6	12		8	300	1.8	.5	38	14		20
21	238		1	6	12		8	400	3.1	.5	94	16		21
22	239		1	6	12		7	260	2.2	.5	44	16		22
23	240	5.2	1	12	12		6	340	1.4	.5	52	12		23
24	241		1	2	16		10	360	3.6	.5	52	16		24
25	242		1	2	18		12	400	3.4	.5	72	20		25
26	243		1	2	16		12	600	3.6	.5	58	30		26
27	244	5.1	1	12	14		12	200	3.0	.5	90	24		27
28	245		1	12	14		12	640	2.9	.5	90	28		28
29	246		1	2	12		10	520	2.5	.5	100	20		29
30	247		1	12	24		10	560	2.7	.5	150	16		30
31	248	5.5	1	2	18		2	220	2.6	.5	50	18		31
32	249		1	12	24		12	160	2.7	.5	80	16		32
33	250		1	12	28		12	400	3.2	.5	52	20		33
34	251		1	2	18		2	220	2.2	.5	50	18		34
35	252	5.3	1	10	18		10	340	2.4	.5	60	16		35
36	253		1	16	14		4	20	0.7	.5	24	12		36
37	254		1	2	14		2	360	2.3	.5	48	16		37
38	255		1	6	16		2	300	2.3	.5	56	18		38
39	GMS-256	5.6	1	34	24		16	1160	3.1	.5	460	36		39
40	257		21	122	2		2	120	0.9	.5	70	14		40

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AMAX EXPLORATION INC. ANALYTICAL REPORT

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

DATE July 28, 1972 TYPE SAMPLES Soil & SILT

PROJECT 1495-P LOCATION STIKINE

REQUESTED BY D. G. ALLEN DISPOSITION OF REJECTS DISCARD

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb	No.
01	72GMS-257		1	8	12	10	300	3.3	.5	90	20	01
02	258		1	6	12	12	280	3.5	.5	98	22	02
03	259		1	6	16	10	320	3.1	.5	52	18	03
04	260	5.9	1	4	16	12	280	2.8	.5	50	18	04
05	261		1	8	14	12	420	3.4	.5	120	32	05
06	262		1	20	16	20	700	4.2	.5	120	48	06
07	263		6	920	20	24	1100	6.5	6.5	>1000	172	07
08	264	5.2	2	22	16	16	360	6.0	.5	104	64	08
09	265		1	32	20	20	3420	2.6	.5	70	42	09
10	266		1	12	16	16	420	3.6	.5	110	44	10
11	267		4	8	14	16	500	3.4	.5	900	38	11
12	268	4.9	7	10	14	12	320	3.4	.5	128	36	12
13	269		1	4	12	12	400	3.6	.5	58	28	13
14	270		1	6	12	12	600	2.8	.5	75	24	14
15	271		1	10	16	16	1080	3.6	.5	128	44	15
16	272	5.7	1	42	20	24	7000	2.4	1.5	296	42	16
17	273		1	70	20	20	1650	2.9	3.5	1190	48	17
18	274		1	16	12	12	1420	2.6	.5	70	34	18
19	275		1	22	14	16	360	2.5	.5	84	40	19
20	276	4.3	1	12	12	16	529	4.5	.5	90	28	20
21	277		1	8	12	16	360	3.7	.5	116	38	21
22	278		1	10	16	22	500	4.7	.5	104	30	22
23	279		1	10	12	22	380	3.1	.5	70	28	23
24	280	4.7	1	28	18	20	1300	4.2	.5	166	56	24
25	281		1	10	14	12	720	3.5	.5	96	32	25
26	282		1	12	8	20	300	2.8	.5	70	20	26
27	283		1	54	26	20	620	2.7	1.0	230	64	27
28	284	4.8	1	10	16	20	300	3.7	.5	112	26	28
29	285		1	12	16	24	400	4.4	.5	98	36	29
30	286		1	44	24	20	1120	3.6	1.5	180	50	30
31	287		1	8	16	20	240	3.1	.5	100	26	31
32	288	5.1	1	10	16	16	400	4.0	.5	96	32	32
33	289		1	16	8	16	200	0.7	.5	26	16	33
34	290		1	64	14	12	780	1.3	2.0	66	36	34
35	291		1	8	12	20	900	3.0	.5	64	24	35
36	292	4.9	1	36	14	20	1000	2.9	1.0	100	58	36
37	293		1	62	20	16	800	4.3	1.0	420	78	37
38	294		1	26	14	16	360	1.7	.5	50	28	38
39	GMS-295		1	10	14	16	220	2.6	.5	64	20	39
40			1	94		16	160	2.2	.5	90		40

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AMAX EXPLORATION INC. ANALYTICAL REPORT

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

DATE July 28, 1972 TYPE SAMPLES SOIL & SILT

PROJECT 495-17 LOCATION STIKINE

REQUESTED BY D.G. ALLEN DISPOSITION OF REJECTS DISCARD

No.	Sample	pH	Mo	Cu	Ni		Co	Mn	Fe %	Ag	Zn	Pb		No.
01	72GMS-296		1	2	12		12	600	3.5	.5	490	28		01
02	297		1	2	8		2	240	2.3	.5	76	20		02
03	298		1	2	12		12	400	3.5	.5	88	28		03
04	299	5.0	1	12	12		12	200	3.3	.5	88	44		04
05	300		1	4	8		2	200	2.9	.5	76	24		05
06	301		1	10	12		14	420	4.6	1.0	118	32		06
07	302		1	2	6		10	340	3.6	.5	100	28		07
08	303	4.7	1	6	8		2	220	2.5	.5	46	20		08
09	304		1	10	12		12	640	2.7	.5	88	44		09
10	305		1	20	20		12	440	2.7	.5	84	38		10
11	306		2	2	14		12	660	3.6	.5	84	28		11
12	307	5.0	1	2	12		2	320	2.9	.5	68	24		12
13	308		1	12	16		16	600	4.1	.5	184	30		13
14	309		1	2	20		12	440	3.6	.5	92	28		14
15	310		1	40	32		16	660	2.7	2.5	144	52		15
16	311	5.2	1	2	16		14	420	3.9	.5	94	24		16
17	312		1	2	12		14	660	4.5	.5	104	24		17
18	313		1	32	16		2	440	1.4	1.0	264	28		18
19	314		1	6	8		2	600	2.9	.5	96	20		19
20	315	5.3	1	2	14		12	400	3.6	.5	60	24		20
21	316		1	20	20		16	1120	2.8	.5	96	24		21
22	317		1	2	24		12	320	3.4	.5	68	26		22
23	318		1	2	24		12	320	2.7	.5	72	22		23
24	319	5.6	1	24	32		16	1040	2.7	.5	120	32		24
25	320		1	6	20		8	260	2.2	.5	50	16		25
26	321		1	6	20		10	300	2.5	.5	58	24		26
27	322		1	2	24		12	600	2.8	.5	56	20		27
28	323	5.5	1	6	8		2	220	2.1	.5	40	16		28
29	324		1	2	12		12	260	2.4	.5	216	20		29
30	325		1	60	20		14	1240	7.4	.5	1400	192		30
31	326		1	2	20		10	400	2.6	.5	72	28		31
32	327	5.2	2	12	18		12	440	2.8	.5	80	24		32
33	328		1	24	70		12	660	3.4	.5	204	28		33
34	329		2	6	12		12	360	3.0	.5	72	20		34
35	330		4	32	32		20	800	2.8	2.0	154	56		35
36	331	5.6	2	32	24		16	1020	2.9	1.0	116	44		36
37	332		1	10	16		16	620	4.4	.5	116	32		37
38	333		1	2	16		12	520	3.2	.5	52	20		38
39	GMS-334		1	2	12		12	240	3.5	.5	94	24		39
40	STD		4	40	18		8	700	2.1	1.0	180	20		40

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AMAX EXPLORATION INC. ANALYTICAL REPORT

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

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DATE July 28, 1972 TYPE SAMPLES Soil + SILT

PROJECT 495-A LOCATION STIKINE

REQUESTED BY D.G. ALLEN DISPOSITION OF REJECTS DISCARD

No.	Sample	pH	Mo	Cu	Ni		Co	Mn	Fe%	Ag	Zn	Pb		No.
01	72 GMS-335		1	2	8		2	320	3.2	.5	45	20		01
02	336		1	14	12		12	720	5.0	.5	74	40		02
03	337		2	20	10		12	720	2.7	.5	116	26		03
04	338	5.6	1	16	16		16	560	3.6	.5	300	32		04
05	339		2	22	29		20	930	3.4	.5	260	42		05
06	340		6	64	24		16	1400	3.3	.5	400	96		06
07	341		2	2	12		12	600	2.9	.5	210	26		07
08	342	5.0	2	20	16		12	420	3.3	.5	144	28		08
09	343		2	16	12		14	1260	2.6	.5	320	20		09
10	345		1	16	14		16	620	3.6	.5	120	24		10
11	346		9	12	10		12	760	2.4	.5	120	24		11
12	347	4.9	2	10	8		12	600	3.2	.5	60	20		12
13	348		4	14	12		10	600	4.1	.5	180	32		13
14	349		2	12	16		16	620	3.9	.5	960	36		14
15	350		4	16	18		16	620	4.9	.5	280	36		15
16	351	5.1	5	12	16		12	620	5.5	.5	140	40		16
17	352		2	10	12		12	620	2.9	.5	114	20		17
18	353		1	4	8		6	240	1.8	.5	42	20		18
19	354		1	8	10		2	420	2.7	.5	124	24		19
20	355	5.0	1	2	10		12	620	3.4	.5	120	28		20
21	356		2	14	8		2	460	2.8	.5	86	28		21
22	357		2	2	12		12	760	2.8	.5	156	20		22
23	358		2	2	12		12	720	2.2	.5	160	28		23
24	359	6.2	7	14	12		10	760	2.1	.5	120	26		24
25	L 360		4	12	8		2	160	2.1	.5	66	18		25
26	S-361		3	2	8		2	440	2.7	.5	146	20		26
27	362		2	2	12		12	700	3.3	.5	170	28		27
28	363	5.9	9	40	16		20	3160	3.4	.5	220	40		28
29	364		2	10	12		16	1160	3.6	.5	910	32		29
30	365		2	12	12		14	960	3.6	.5	134	28		30
31	366		2	10	12		14	560	3.4	.5	118	28		31
32	PH 5.5 367	5.8	2	20	16		12	640	2.7	.5	120	32		32
33	368		8	32	30		16	760	2.9	.5	280	44		33
34	369		3	16	16		16	620	3.6	.5	280	36		34
35	370		4	24	22		20	1360	3.3	.5	320	64		35

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AMAX EXPLORATION INC. ANALYTICAL REPORT

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

DATE July 18/72 TYPE SAMPLES soil, silt, rock

PROJECT 495-1A LOCATION Stikine East

REQUESTED BY D.G Allen DISPOSITION OF REJECTS discard

No.	Sample	pH	Mo ppm	Cu ppm	Ni ppm	Co	Mn	Fe %	Ag	Zn	Pb			No.
22	S-47		1	22	10	40	560	1.2	.5	144	50			22
23	42	5.5	1	34	12	40	1240	2.7	.5	760	66			23
24	43		1	16	12	28	400	1.0	.5	90	38			24
25	44		1	16	10	30	440	2.0	1.0	256	44			25
26	46		1	24	6	24	600	3.5	1.0	112	52			26
27	47	5.4	1	12	12	30	320	3.2	.5	92	20			27
28	L-49	6.1	1	36	14	40	1600	4.2	.5	260	36			28
29	S-50		1	8	8	20	400	2.8	.5	68	28			29
30	L-52		1	40	16	28	760	2.8	1.0	122	40			30
31	S-53		1	8	12	40	600	3.4	.5	114	30			31
32	L-55	6.2	1	18	12	30	600	3.4	.5	94	28			32
33	S-56		1	42	12	36	1280	3.0	.5	790	188			33
34	12W-58		1	390	28	76	2000	5.0	1.0	4120	52			34
35	G-10		1	540	14	24	320	2.8	.5	"	"			35
36														36
37														37
38														38
39														39
40														40

5 Needed

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AMAX EXPLORATION, INC. ANALYTICAL REPORT

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

DATE July 18/72 TYPE SAMPLES Soil

PROJECT 495 - A Stikine East LOCATION McClaw Creek

REQUESTED BY D.G. Allen DISPOSITION OF REJECTS discard

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe%	Ag	Zn	Pb			No.
01	12GMS-59		0	14	20	50	340	3.4	.5	84	24			01
02	60		0	20	14	48	600	3.4	.5	122	32			02
03	61		03	12	16	56	400	4.2	1.0	96	30			03
04	62	5.4	03	28	16	50	400	3.6	.5	76	26			04
05	63		0	16	16	48	560	3.2	.5	100	32			05
06	64		02	28	12	52	360	3.5	1.0	132	36			06
07	65		08	22	14	60	360	4.7	1.5	184	48			07
08	66	5.3	1	12	8	44	480	3.1	.5	120	24			08
09	67		12	282	12	90	1440	7.5	10.5	160	16			09
10	68		1	10	12	54	400	3.7	.5	96	24			10
11	69		4	12	12	40	360	2.4	.5	72	28			11
12	70	5.1	2	12	16	24	280	1.5	.5	68	20			12
13	71		2	12	16	36	260	3.0	.5	70	26			13
14	72		1	14	12	44	400	3.1	.5	120	38			14
15	73		1	10	16	40	280	2.8	.5	88	22			15
16	74	5.2	1	6	16	40	240	2.7	.5	64	20			16
17	75		1	4	18	40	300	2.4	.5	74	20			17
18	76		1	8	16	24	220	2.3	.5	48	16			18
19	78		1	6	12	28	400	2.2	.5	86	14			19
20	79	5.4	1	12	18	36	480	2.8	.5	88	20			20
21	80		4	8	14	30	480	2.2	.5	92	18			21
22	81		54	42	22	50	400	1.9	1.0	92	122			22
23	82		12	16	6	16	180	0.4	.5	144	10			23
24	83	5.1	2	20	18	50	1200	3.3	.5	110	40			24
25	84		5	14	18	70	600	4.9	1.0	172	56			25
26	85		4	28	20	50	440	3.4	2.0	236	42			26
27	86		4	18	16	58	840	3.5	1.0	152	36			27
28	87	5.5	2	18	16	60	520	4.1	.5	200	40			28
29	12GMS-88		2	24	16	50	400	2.9	.5	124	64			29
30	4/5		500	360			340		3.0					30
31														31
32														32
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COMMENT:

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ANALYST

37 1

AMAX EXPLORATION INC. ANALYTICAL REPORT

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

DATE July 12, 1972 TYPE SAMPLES SOIL + SILT

PROJECT 495 LOCATION STIKINE

REQUESTED BY D. ALLAN DISPOSITION OF REJECTS

No.	Sample	pH	Mo ppm	Cu ppm	Ni ppm	Co	Mn	Fe %	Ag	Zn ppm	Pb			No.
01	72 GAS-66	5.4	1	6	12	16	420	2.2	.5	72	18			01
02	67		6	18	12	12	800	3.2	.5	162	36			02
03	68		3	30	20	20	1100	3.0	.5	112	24			03
04	69	5.1	1	10	24	20	700	4.0	1.0	92	18			04
05	L 71	6.0	1	22	16	24	1040	4.2	1.0	120	30			05
06	S 72		1	14	12	24	1000	3.4	1.0	366	70			06
07	73		1	6	16	12	340	2.0	1.0	80	16			07
08	74		1	20	32	24	530	3.6	1.5	106	32			08
09	75	4.6	1	4	4	2	200	2.1	.5	12	12			09
10	76		1	10	18	16	400	2.2	.5	78	24			10
11	L 78		1	14	16	28	800	5.7	.5	144	28			11
12	S 79		1	6	12	12	320	2.5	.5	52	12			12
13	S 80		1	22	44	24	420	3.7	4.0	152	34			13
14	81	4.9	1	8	20	12	410	6.1	1.0	100	18			14
15	82		1	4	14	26	200	9.2	2.5%	28	38			15
16	83		12	16	12	32	640	6.2	2.0	80	40			16
17	85		1	20	20	40	31000	>10.0	2.5	134	40			17

No.	Sample	pH	Mo ppm	Cu ppm	Ni ppm	Co	Mn	Fe %	Ag	Zn ppm	Pb			No.
23	S-52		0	14	12	64	800	5.0	1.5	252	48			23
24	53		0	16	14	52	600	5.4	.5	320	50			24
25	54		43	236	16	44	1200	7.9	6.5	>2500	82			25
26	55	5.5	4	4	44	40	640	2.4	.5	136	18			26
27	56		2	6	12	30	300	2.5	.5	64	12			27
28	57		2	4	8	48	200	2.0	.5	40	10			28
29	58		2	12	10	40	1400	4.0	.5	188	12			29
30	59	5.5	0	6	12	52	240	2.8	.5	54	16			30
31	60		0	14	12	50	530	3.5	.5	96	24			31
32	61		2	12	8	64	360	3.8	.5	94	18			32
33	62		0	62	16	54	900	5.1	2.0	136	60			33
34	64	5.5	0	20	14	36	430	3.9	.5	118	32			34
35	12 GAS-65		0	84	12	26	1040	1.5	.5	52	20			35
36	47		30	204	2	30	20	.9	.5	80	4			36
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AMAX EXPLORATION INC. ANALYTICAL REPORT

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

DATE July 11, 1972 TYPE SAMPLES Water

PROJECT 495-A LOCATION Stikine East

REQUESTED BY D Allen DISPOSITION OF REJECTS

No.	Sample	pH	Mo	Cu	Ni					Zn				No.
01	72GAW 70	6.7	0	0						10				01
02	77	7.0	0	0						10				02
03	84	6.5	0	0						10				03
04	87	4.9	0	4						10				04
05	89	5.5	0	5						10				05
06	91	4.1	0	8						10				06
07	97	4.2	0	20						10				07
08	72GAW 102	6.8	0	0						10				08
09	72GAW 106	7.0	0	0						10				09
10														10
11														11
12														12
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AMAX EXPLORATION INC. ANALYTICAL REPORT

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

DATE July 12, 1972 — TYPE SAMPLES SOIL + SILT

PROJECT 495 — LOCATION STIKINE

REQUESTED BY D. ALLAN — DISPOSITION OF REJECTS

No.	Sample	pH	Mo ppm	Cu ppm	Ni ppm	Co	Mn	Fe%	Ag	Zn ppm	Pb			No.
01	72 GDS - 2	6.9	1	24	20	22	980	3.9	.5	320	34			01
02	3		1	16	22	22	700	4.5	1.0	>530	32			02
03	4		1	16	16	20	560	3.9	.5	118	26			03
04	GDL - 6	6.5	1	28	22	24	620	4.0	.5	110	25			04
05														05
06														06
07														07
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ANALYST

AMAX EXPLORATION INC. ANALYTICAL REPORT

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

DATE July 11, 1972 TYPE SAMPLES Water

PROJECT 495-A LOCATION Stikine East

REQUESTED BY Don Allen DISPOSITION OF REJECTS

No.	Sample	pH	Mo	Cu	Ni					Zn				No.
01	726-DW 5		0	0						10				01
02														02
03														03
04														04
05														05
06														06
07														07
08														08
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COMMENT:

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DATE REPORTS MAILED

ANALYST

AMAX EXPLORATION INC. ANALYTICAL REPORT

BURNABY LABORATORY - 2225 SPRINGER AVE. - BURNABY 2, B.C.

DATE July 18/72 TYPE SAMPLES Rock

PROJECT 495-A LOCATION Stekyne East

REQUESTED BY D. G. Allen DISPOSITION OF REJECTS discard

No.	Sample	XX	Mo ppm	Cu ppm	Ni ppm	Co	Mn	Fe%	Ag	Zn	Pb			No.
01	72GDT-7		6	80	34	24	8200	.55	.5	64	12			01
02	8		2	64	30	10	1360	5.3	.5	126	20			02
03	9		2	>3600	24	40	1240	5.8	4.5	76	24			03
04	10		1	202	20	20	620	4.9	.5	44	16			04
05	72GDT-11		2	6200	36	32	1400	5.3	1.0	132	24			05
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07														07
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ANALYST

Procedures for Collection and Processing of Geochemical Samples

Analytical Methods for Ag, Mo, Cu, Pb, Zn, Fe, Mn, Ni, Co and W in sediments and soils; Mo, Cu, Zn, Ni and SO_4^{--} in waters.

Amax Exploration, Inc.
Vancouver Office.

September 1970

R.F. Horsnail

SAMPLE COLLECTION

Soils

B horizon material is sampled and thus organic rich topsoil and leached upper subsoil are avoided. Occasionally organic rich samples have to be taken in swampy depressions.

Samples are taken by hand from a small excavation made with a cast iron mattock. Approximately 200 gms of finer grained material is taken and placed in a numbered, high wet-strength, Kraft paper bag. The bags are closed by folding and do not have metal tabs.

Observations as to the nature of the sample and the environment of the sample site are made in the field.

Drainage Sediments

Active sediments are taken by hand from tributary drainages which are generally of five square miles catchment or less. Composite samples are taken of the finest material available from as near as possible to the centre of the drainage channel thus avoiding collapsed banks. More than one sample is taken if marked mineralogical or textural segregation of the sediments is evident.

Some 200 gm of finer material is collected unless the sediment is unusually coarse in which case the weight is increased to 1 kg. Samples are placed in the same type of Kraft paper bag as are employed in soil sampling. Water samples are taken at all appropriate sites. Approximately 100 mls are sampled and placed in a clean, screw sealed, polythene bottle. Observations are made at each site regarding the environment and nature of the sample.

Rock Chips

Composite rock chip samples generally consist of some ten small fragments broken from unweathered outcrop with a steel hammer. Each fragment weighs some 50 gms. Samples are placed in strong polythene bags and sealed with non-contaminating wire tabs. Samples are restricted to a single rock type and obvious mineralization is avoided.

Soil, sediment and rock samples are packed securely in cardboard boxes or canvas sacks and dispatched by road or air to the AMAX geochemical laboratory in Vancouver.

SAMPLE PREPARATION

Packages of samples are opened as soon as they arrive at the laboratory and the bags placed in numerical sequence in an electrically heated sample drier (maximum temperature 70°C).

After drying soil and sediment samples they are lightly pounded with a wooden block to break up aggregates of fine particles and are then passed through a 35 mesh stainless steel sieve. The coarse material is discarded and the minus 35 mesh fraction replaced in the original bag providing that this is undamaged and not excessively dirty.

Rock samples are exposed to the air until the outside surfaces are dry; only if abnormally wet are rocks placed in the sample drier. Rock samples are processed in such manner that a fully representative $\frac{1}{2}$ g sample can be obtained for analysis. The entire amount of each sample is passed through a jaw crusher and thus reduced to fragments of 2 mm size or less. A minimum of 1 kg is then passed through a pulverized with plates set such that 95% of the product will pass through a 100 mesh

screen. Where samples are appreciably heavier than 2 kg the material is split after jaw crushing by means of a Jones splitter. After pulverizing the sample is mixed by rolling on paper and is then placed in a Kraft paper bag.

SAMPLE DIGESTION

Digestion tubes (100 x 16 mm) are marked at the 5 ml level with a diamond pencil. Tubes are cleaned with hot water and concentrated HCl. 0.5 g samples are weighed accurately, using a Fisher Dial-O-Gram balance, and placed in the appropriate tubes.

To each of the samples thus prepared are added 2 ml of an acid mixture comprising 15% nitric and 85% perchloric acids. Racks of tubes are then placed on an electrical hot plate, brought to a gentle boil ($\frac{1}{2}$ hour) and digested for $4\frac{1}{2}$ hours. Samples unusually rich in organic material are first burned in a porcelain crucible heated by a bunsen burner before the acid mixture is added. Digestion is performed in a stainless steel fume hood.

After digestion tubes are removed from the hot plate and the volume is brought up to 5 ml with deionized water. The tubes are shaken to mix the solution and then centrifuged for one minute. The resulting clear upper layer is used for Cu, Mo, Pb, Zn, Ag, Fe, Mn, Ni and Co determination by a Perkin-Elmer 290B atomic absorption spectrophotometer. Analytical procedures are given on the following pages.

ANALYTICAL PROCEDURES

Silver

1. Scope - This procedure covers a range of silver in the sample from less than .5 to 1000 ppm

2. Summary of Method - The sample is treated with nitric and perchloric acid mixture to oxidize organics and sulphides. The silver then is present as perchlorate in aqueous solution. The concentration is determined by atomic absorption spectrophotometer

3. Interferences - Silver below 1 gamma/ml is not very stable in solution. Maintaining the solution in 20% perchloric prevents silver being absorbed on the glass container. Determination must be completed on the same day as the digestion.

   Samples high in dissolved solids, especially calcium, cause high background absorbance. This background absorbance must be corrected using an adjacent Ag line.

Silver AA Settings P.E. 290

Lamp - Ag

Current 4 ma position 3

Slit 7 A

Wavelength 3281A Dial 287.4

Fuel - acetylene - flow - 14

Oxidant - air - flow - 14

Burner - techtron AB 51 in line

Maximum Conc. 3 to 4x

Calibration

1. Set 1 gamma/ml to read 40 equivalent to 20 gamma/gm

   Factor $\frac{1}{2}$ x meter reading

   Check standards

   4, 10, 20, 40 ppm Ag in sample

2. Set 15 gamma/ml to 100 equivalent to 100 ppm

   Check standards

   40, 100 ppm

   Factor directly in ppm Ag

3. Rotate burner to maximum angle

   Set 10.0 gamma/ml Ag to read 100

   Check standards

   100, 200, 400, 1000 ppm Ag

   Factor 10x scale reading

4. Samples higher than 1000 ppm should be re-analyzed by assay procedure

5. Background correction for sample reading between 1 to 5 ppm

   Calibrate AA in step 1

   Dial wavelength to 300 (peak)

   Read the samples again

   Subtract the background reading from the first reading

Standards

1. 1000 gamma/ml Ag - 0.720 gm Ag_2SO_4 dissolved in 20 mls $Hx10_3$ and dilute to 500 mls

2. 100 gamma/ml Ag - 10 mls of above + 20 mls $HClO_4$, dilute to 100 mls

3. Recovery spiked standard

5 gamma/ml Ag - 5 mls 100 gamma/ml dilute to 100 mls with "mixed" acid

Working AA Standards

Pipette .2, .5, 1, 2, 5, 10 mls of 100 gamma/ml and 2, 5 mls 1.000 gamma/ml dilute to 100 mls with 20% $HClO_4$. This equivalent to 4, 10, 20, 40, 100, 200, 400, and 1000 ppm Ag in the sample .50 gm diluted to 10 mls.

Recovery Standard

Pipette 2 mls of 5 gamma/ml Ag in mix acids into a sample and carry through the digestion. This should give a reading of 20 ppm Ag + original sample content.

Follow the general geochemical procedure for sample preparation and digestion.

For low assay Ag, the same procedure is used. Ag is then calculated in oz/ton.

1 ppm = .0292 oz/ton

conversion factor

oz/ton = .0292 x ppm Ag

Zn Geochemical AA Setting

Lamp Zn

Current 8 #3 Slit 20A

Wave length 2133 Dial 84.9

Fuel - Acetylene Flow 14

Oxidant - Air Flow 14

Burner - P.E. short path 90°

Range

0 - 20 gamma/ml Factor 4x - 0 to 400 ppm

0 - 50 gamma/ml Factor 10x -0 to 1000 ppm

For Waters - Burner AB- 51 in line 1 gamma/ml read 100 to give 0 to 1000 ppb

High Zn Burner Boling in line. Wavelength 3075. Dial 250 Slit 7A

Fuel 14 Air 14.5

0 to 1000 gamma/ml read 0 to 20 Factor 400 x

Pure Standard 10,000 gamma/ml

1 gm Zn dissolved, H_2O, HCl, HNO_3, $HClO_4$, fumed to $HClO_4$ - make up to 100 mls H_2O

1000, 100 gamma/ml and 100 ml by dilution in 20 % $HClO_4$

0 to 200 gamma/ml Zn use combined Cu, Ni, Co, Pb, Zn standards

Pipette

1, 2, 3, 5, 8, 10 mls of 10,000 gamma/ml - dilute to 100 mls with 20% $HClO_4$ to give

100, 200, 300, 500, 800, 1000 gamma/ml Zn for high standards

Co Geochemical AA Setting

Lamp - 5 multi element

Current 10 #4 Slit 2A

Wavelength 2407 Dial 133.1

Fuel - Acetylene Flow 14

Oxidant - Air Flow 14

Burner - AB 51 in line

Range

0 - 10 gamma/ml read 100 Factor 2 x reading to 200 ppm

0 - 20 gamma ml read 100 Factor 4 x reading to 400 ppm

Burner at maximum angle

0 - 100 gamma/ml read 100 Factor 20 x reading to 2000 ppm

0 - 200 gamma/ml read 100 Factor 40 x reading to 4000 ppm

Standards - 1000 gamma/ml

1.000 gm cobalt metal dissolved in HCl, HNO, and fumed into $HClO_4$, dilute to 1 liter

Pipette

1, 2, 10, 20 mls into 100 ml vol flasks diluted to mark with 20% $HClO_4$

This gives

10, 20, 100, 200 gamma/ml Co

Mixed - combination standards of Cu, Ni, Co, Pb, Zn

of

1, 2, 5, 10, 20, 30, 50, 80, 100, 150, 200 gamma/ml are used for calibration

Mn Geochemical AA Setting

Lamp Multi element Ca, Ni, Co, Mn Cr

Current 10 #4 Slit 7A

Wave length 4030.8 Dial 425.2

Fuel - Acetylene Flow 14.0

Oxidant - Air Flow 14.0

Burner - P.E. short path (or AB 50)

Range

0 - 100 gamma/ml Factor 20x - 0 to 2000 ppm

0 - 200 gamma/ml Factor 40x - 0 to 4000 ppm

Burner 90°

0 - 1000 gamma/ml Factor 200x - 0 to 20,000 ppm

0 - 2000 gamma/ml Factor 400x - 0 to 40,000 ppm

EDTA Extraction - use AB 51 in line

0 - 20 gamma/ml Factor 4x - 0 to 400 ppm

Standards

Fisher 10,000 gamma/ml (ml)

10x Dilution 1000 gamma/ml

Pippette

.5, 1, 2, 3, 5, 8, 10, ml of 1000 gamma/ml

2, 3, 5, 8, 10, 15, 20 ml of 10,000 gamma/ml dilute to 100 mls with 20% $HClO_4$. This gives

5, 10, 20, 30, 50, 80, 100, 200, 300, 500, 800, 1000, 1500, 2000 gamma/ml

Mo Geochemical AA Setting

Lamp ASL H/C Mo

Current 5 #5 Slit 7A

Wavelength 3133 Dial 260.2

Fuel - Acetylene Flow 12.0 to give 1" red feather

Oxidant - Nitrous oxide Flow 14.0

Burner - AB 50 in line

Caution read the operation using N_2O and acetylene flame at end of general AA procedure

Range

0 - 10 gamma/ml Factor 2x - 0 to 200 ppm

Rotate burner to max. angle

0 - 50 gamma/ml Factor 10 x 0 to 1000 ppm

0 - 100 gamma/ml Factor 20 x 0 to 2000 ppm

Standards 1000 gamma/ml

Dissolve .750 gms MoO_3 (acid molybdic) with 20 mls H_2O, 6 lumps NaCH, when all dissolved, add 20 mls HCl, dilute to 500 mls

100 gamma/ml - 10 x dilution

Pipette

.2, .5, 1, 2, 3, 5, 8, 10 mls of 100 gamma/ml

2, 3, 5, 8, 10 mls of 1000 gamma/ml add 5 mls 10% $AlCl_3$ and dilute to 100 mls with 20% $HClO_4$

This gives

.2, .5, 1, 2, 3, 5, 8, 10, 20, 30, 50, 80, 100 gamma/ml Mo

Fe Geochemical AA Setting

Lamp - Fe

- Do not use multi element Fe

Current 10 #4 Slit 2A

Wavelength 3440.6 Dial 317.5

Fuel - Acetylene Flow 14.0

Oxidant - Air Flow 14.0

Burner - PE Short Path 90°

Range

0 - 5000 gamma/ml 0.1 x % - 0 to 10.0%

0 - 10,000 gamma/ml 0.2 x % - 0 to 20.0%

Higher Fe - 10 x dilution

Standards 10,000 gamma/ml

Weigh 5.000 gms iron wires, into beaker, add H_2O, HCl, HNO_3, $HClO_4$, heat to $HClO_4$ fumes. Add $HClO_4$ to 100 mls + 100 mls H_2O, warm, dilute to 500 mls

Pipette

1, 5, 10, 20, 30, 50, 80 mls 10,000 gamma/ml dilute to 100 mls with 20% $HClO_4$ to give

100, 500, 1000, 2000, 3000, 5000, 8000 gamma/ml to be equivalent to .2, 1.0, 2.0, 4.0, 6.0, 10.0%, 16.0% Fe in geochem sample

Ni Geochemical AA Setting

Lamp P.E. H/C. Ni or multi element Cu, Ni, Co, Mn, Cr

Current 10 #4, Slit 2A

Wave length 3415 Dial 312.5

Fule - Acetylene Flow 14.0

Oxidant - Air Flow 14.0

Burner AB 51 in line

Range

0 - 20 gamma/ml Factor 4x - 0 - 400 ppm

0 - 100 gamma/ml Factor 20x - 0 - 2000 gamma

45° 0 - 200 gamma/ml Factor 40x - 0 - 4000 ppm

0 - 500 gamma/ml Factor 100x - 0 - 10,000 ppm

Ni in waters and very low ranges

Wave length 2320 Dial 113

Range 0 - 5 gamma/ml Factor 1x - 0 - 100 ppm

Standards 10,000 gamma/ml

1.000 gm pure Ni metal dissolved in HCl, HNO_3, $HClO_4$ to perchloric fumes, dilute to 100 ml H_2O

1000 gamma/ml and 100 gamma/ml Successive 10x dilutions in 20% HClO

1, 2, 5, 8, 10 mls of 100 gamma/ml

2, 5, 8, 10 mls 1000 gamma/ml

2, 5, 8, 10 mls 10,000 gamma/ml - dilute to 100 mls in 20% HClO4. This gives

1, 2, 5, 8, 10, 20, 50, 80, 100, 200, 500, 800, 1000 gamma/ml N

Combined Standards - Cu, Ni, Co, Pb, Zn is used as a working standard

Cu Geochemical AA Setting

Lamp Single Cu or

5 multi element

Current 10 for multi element #4 Slit 7A

4 for single #3 Slit 7A

Wavelength 3247 Dial 280

Burner Techtron AB 51 (For Cu in natural waters)

P.E. Short Path (For geochem)

Fuel Acetylene Flow 14

Oxidant Air Flow 14

Range

0 - 5 gamma/ml Factor 1x to 100 ppm (for low Cu)

0 - 20 gamma/ml Factor 4x to 400 ppm

Burner 90°

0 - 200 gamma/ml Factor 40x to 4000 ppm

Wavelength 2492 Dial 147

Burner in line

Range

0 - 1000 gamma/ml Factor 200x to 20,000 ppm

0 - 2000 gamma/ml Factor 400x to 40,000 ppm

Higher range than 40,000 ppm requires 10x dilution

Standards

10,000 gamma/ml

1.000 gm metal powder, H_2O, HCl, HNO_3 until dissolved, add $HClO_4$, fume dilute to 100 mls

1000 gamma/ml 10x dilution above in 20% $HClO_4$

2000 gamma/ml 20 mls 10,000 gamma/ml - dilute to 100 mls in 20% $HClO_4$

100 gamma/ml 10x dilution 1000 gamma/ml dilute to 100 mls in 20% $HClO_4$

200 gamma/ml 10x dilution 2000 gamma/ml dilute to 100 mls in 20% $HClO_4$

Pipette

1, 2, 3, 5, 8, 10 mls 100 gamma/ml - dilute to 100 mls with 20% $HClO_4$ to give 1, 2, 3, 5, 8, 10 gamma/ml

Combined standards Cu, Ni, Co, Pb, Zn

1, 2, 5, 10, 20, 30, 50, 80, 100, 150, 200 gamma/ml

Pb Geochemical AA Setting

Lamp ASL H/c Pb

Current 5 ma Slit 7A

Wave length 2833 Dial 203

Fuel - acetylene Flow 14

Oxidant - air Flow 14

Burner AB 51 in line

Range

0 - 20 gamma/ml to read 0 to 80. Factor 5x 0 to 500 ppm

0 - 200 gamma/ml to read 0 to 80. Factor 50x 0 to 5000 ppm

Standards - 10,000 gamma/ml

1.000 pure metal, dissolved in HNO_3, fumed to $HClO_4$ make up to 100 mls in 20% $HClO_4$

1000 gamma/ml and 100 gamma/ml Successive 10x dilutions in 20% $HClO_4$

Pipette

1, 2, 5, 8, 10 mls 100 gamma/ml

2, 5, 8, 10, 20 mls 1000 gamma/ml dilute to 100 mls in 20% $HClO_4$ this gives

1, 2, 5, 8, 10, 20, 50, 80, 100, 200 gamma/ml

Combined Standards Cu, Ni, Co, Pb, Zn, are used as working standards

W in Soils and Silts

Reagents and apparatus

Test tubes - pyrex disposable

Test tubes - screw cap

Bunsen Burner

Flux - 5 parts Na_2CO_3

4 parts NaCl

1 part KNO_3 pulverized to -80 mesh

7% $SnCl_2$ in 70% HCl

20% KSCN in H_2O

Extractant - 1 part tri-n-butyl phosphate

9 parts carbon tetrachloride

Standards

1000 gamma/ml W

.18 gms Na_2WO_4 $2H_2O$ dissolved in H_2O, make up to 100 mls

100 gamma/ml, 10 gamma/ml by dilution

Standardization

Pipette .5, 1, 2, 3, 5, 8, 10 ml of 10 gamma/ml

and 1.5, 2 mls of 100 gamma/ml - dilute to 10 mls

continue from step #4

Artificial colors - Nabob pure Lemon Extract, dilute with 1:1 ethanol and water to match. Tightly seal these for permanent standards

Procedure

1. Weigh 1.0 gram sample, add 2 gm flux, mix

2. Sinter in rotary for 2 to 3 minutes (Flux dull read for one minute)
3. Cool, add 10 mls H_2O, heat in sand bath to boiling, cool, let sit overnight
4. Stir, crush, and mix. Let settle
5. Take 2 ml aliquot into screw cap test tube
6. Add 7 mls $SnCl_2$, heat in hot water bath for 5 minutes (80°C)
7. Cool to less than 15°C
8. Add 1 ml 20% KSCN, mix (if lemmon yellow; compare color standard 10x)
9. Add $\frac{1}{2}$ ml extractant, cap, shake vigorously 1 minute
10. Compare color

Molybdenum in Water Samples

1. Transfer 50 mls to 125 separatory funnel
2. Add 5 ml .2% ferric chloride in conc HCl
3. Add 5 mls of mixed KSCN and $SnCl_2$
4. Add 1.2 mls isopropyl ether, shake for 1 minute, and allow phases to separate
5. Drain off water
6. Compare the color of extractant

Standardization

Pipette 0, .2, .5, 1, 2, 3, 4, 5, mls of 1 gamma/ml and 1, 1.5, 2, mls of 10 gamma/ml dilute to 50 mls with demineralized H_2O, and continue step #2.

This equivalent to -

1, 4, 10, 20, 40, 60, 80, 100, 200, 300, 400 ppb Mo

Artificial color - Nabob orange extract dilute with 1:1 H_2O to methanol to match. Seal tightly

$SnCl_2$ - 15% in 15% HCl

300 gm $SnCl_2 \cdot 2H_2O$ + 300 mls HCl, until $SnCl_2$ dissolved dilute to 2 liters

KSCN - 5% in H_2O

Mixed $SnCl_2$ - KSCN

3 parts $SnCl_2$ to 2 parts KSCN

Water Samples Run for AA

1. Cu - 2 gamma/ml reads 80 scale therefore 1 unit = 25 ppb

2. Zn - 1 gamma/ml reads full scale therefore 1 unit = 10 ppb

3. Ni - 2.5 gamma/ml reads 50 scale therefore 1 unit = 50 ppb

Burner: long slot techtron burner in line

Sulphate in Natural Waters

1. Pipette 0.5 ml sulphate reagent mix into a colorimetric tube
2. Add 5 ml water sample and mix
3. Read at 343 mμ against a demineralized water blank
4. Read again at 400 mμ and subtract from sulphate reading
5. Calculate ppm sulphate from the graph

Reagent

Dissolve 54 grams red mercuric oxide (J.T. Baker 2620- Can Lab) in 185 ml 70% perchloric acid and 20 ml H_2O, shake for one hour. Add 46.3 grams ferric perchlorate [$Fe(ClO_4)_3 \cdot 6H_2O$] (GFS 39) and 47 grams aluminum perchlorate [$Al(ClO_4)_3 \cdot 8H_2O$] (GFS 2) Add 400 ml water to dissolve, let settle overnight, decant into bottle and make to 1 liter

pH MEASUREMENTS

Soil and drainage sediment samples are dampened with water in a glass beaker to a pasty consistency. Demineralized water is used for this purpose as it has a low buffer capacity and thus does not influence the pH of the sample. Measurement is made with a Fisher Acumet pH meter. Electrodes are stored in buffer overnight. A 30 minute warm up time is allowed for the instrument each morning. A 10 ml aliquot is taken from water samples for pH measurement.

McCLAIR

CREEK

RIVER

TOODOGGONE

N

LEGEND

2 — Tertiary volcanic rocks; Porphyritic trachyte, Trachyandesite, Crystal Tuff.

1 — Syenite, Monzosyenite

Bedding

Stream

Claim post, Claim location line

Claim boundary

Geological Contact

AMAX POTASH LIMITED

McCLAIR CREEK PROSPECT

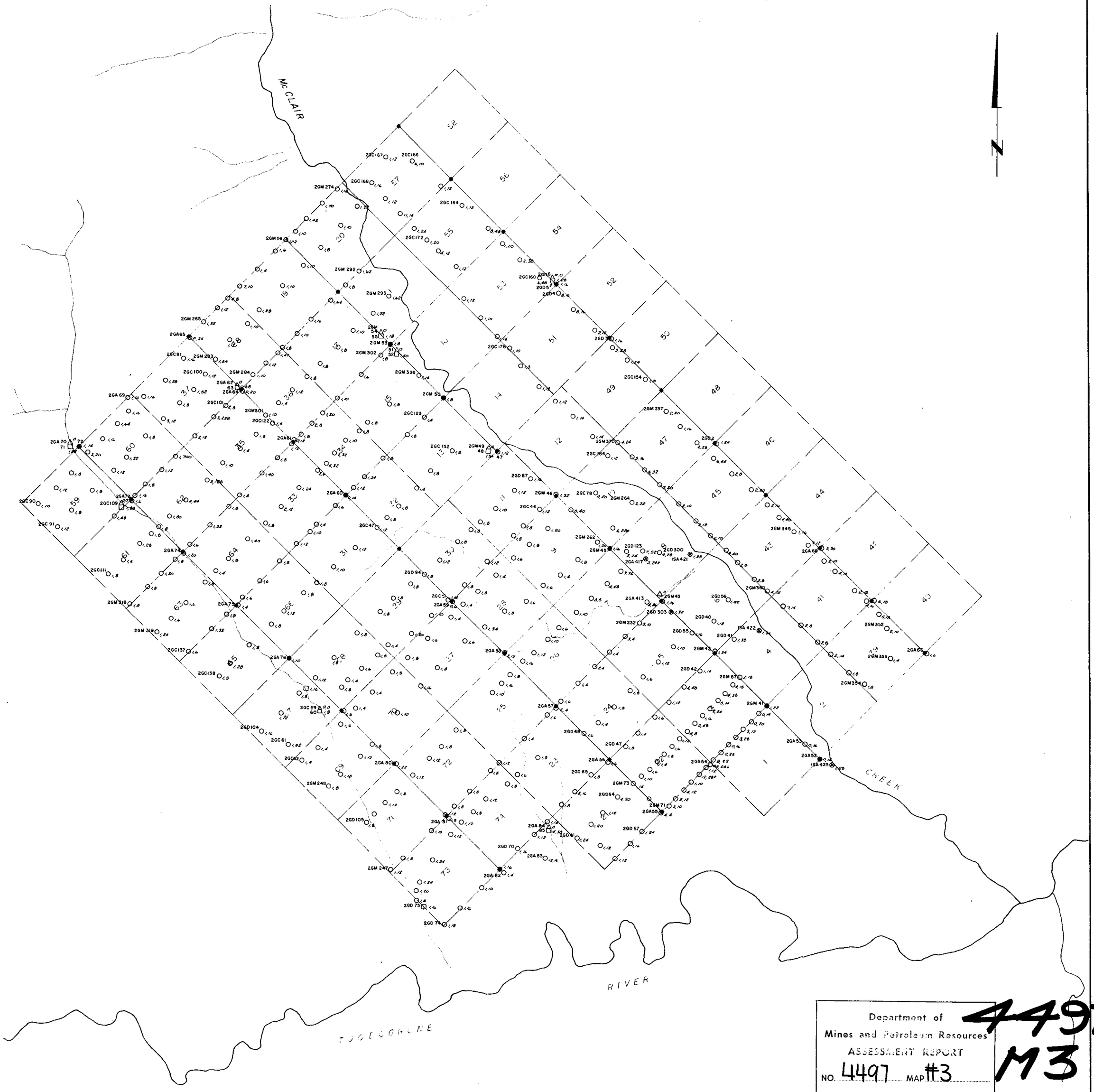
OMINECA MINING DIVISION — BRITISH COLUMBIA

GEOLOGICAL MAP

SCALE: 1" = 1000'

DATE REVISED		DATE PRINTED		Drawn by	FIG. 5a
				Date:	
				N.T.S. File 94 E 6	

To accompany Report: "1972 EAST STIKINE PROJECT" by D.G. Allen.



LEGEND

METAL CONTENT IN SOIL, SILT & ROCK CHIP SAMPLES		Mo	Cu
○	Background	<2	<70
□	Positive	2 - 6	70 - 120
⊗	Anomalous	>6	>120

- 2GA 409 / 1, 2.12 — Soil sample site, sample number (ppm Mo, Cu)
- 2GM 91 / 4, 34 — Silt sample site, sample number (ppm Mo, Cu)
- 2GC 607 / 1, 32 — Rock Chip sample site, sample number (ppm Mo, Cu)
- 2GA 97 / 0, 30 — Water sample site, sample number (ppb Mo, Cu)
- W.P. — Witness Post
- Claim post, claim location line
- Claim boundary
- Stream

Donald G. Allen

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4497 MAP #3

4497
M3

AMAX POTASH LIMITED

McCLAIR CREEK PROPERTY

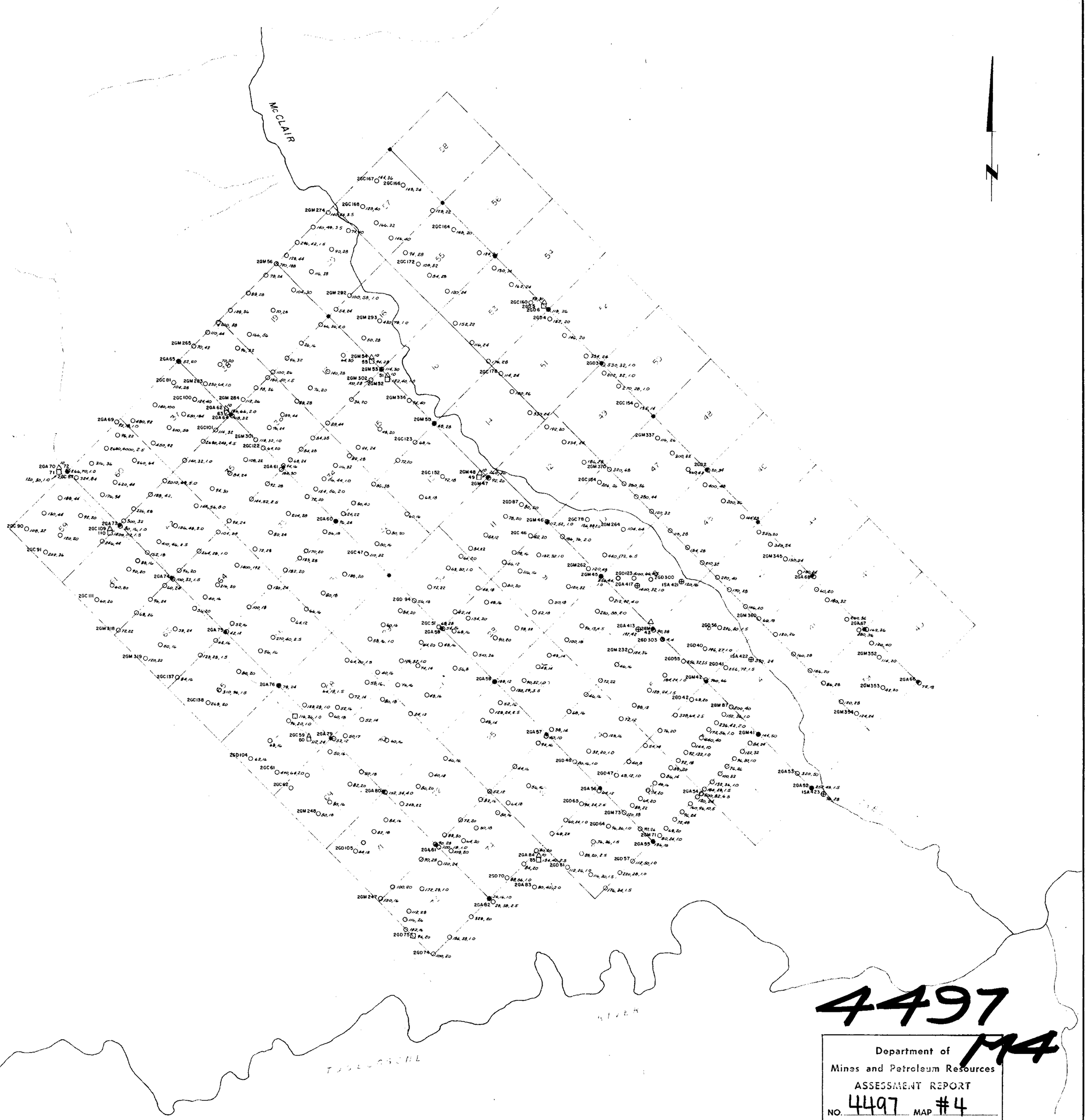
OMINECA MINING DIVISION — BRITISH COLUMBIA

GEOCHEMISTRY
Mo, Cu

SCALE: 1" = 1000'

DATE REVISED		DATE PRINTED		Drawn by:	Fig. 5b
				Date:	
				N.T.S. File 94 E 6	

To accompany Report: "1972 EAST STIKINE PROJECT" by D.G. Allen



4497

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4497 MAP #4

L E G E N D

- 2GC 607 / 236, 96, 1.0 — Soil sample site, sample number (ppm Zn, Pb, Ag)
- 2GA 98 / 180, 42, 1.0 — Silt sample site, sample number (ppm Zn, Pb, Ag)
- 2GD 284 / 850, 20, 3.5 — Rock Chip sample site, sample number (ppm Zn, Pb, Ag)
- 2GM 94 / 10 — Water sample site, sample number (ppb Zn)

NOTE: Ag values plotted only where 1.0ppm or greater

- WP — Witness Post
- Claim post, claim location line
- Claim boundary
- Stream

Donald G. Allen.

METAL CONTENT IN SOIL, SILT & ROCK CHIP SAMPLES.

	Zn	Pb	Ag
○ Background	<200	<40	<1.0
□ Positive	200–400	40–80	1.0–2.0
⊗ Anomalous	>400	>80	>2.0

AMAX POTASH LIMITED

McCLAIR CREEK PROPERTY

OMINECA MINING DIVISION — BRITISH COLUMBIA

GEOCHEMISTRY
Zn, Pb, Ag.

SCALE: 1" = 1000'

DATE REVISED		DATE PRINTED		Drawn by:	Fig. 5c
				Date:	
				N.T.S. File 94 E 6	

To accompany Report: "1972 EAST STIKINE PROJECT" by D.G. Allen.