

LOG NO: 1109	RD.
ACTION:	
FILE NO: 87-713-16531	

8/88

PROSPECTING REPORT
ON THE
JACK MINERAL CLAIM
LIARD MINING DIVISION
104G/4E

57° 09' ^{30"} N 131° ~~33'~~ ^{34' 18"} W

FILMED

for

Owner/Operator: CONSOLIDATED SILVER STANDARD MINES LIMITED

by

P. FOLK, P.ENG.

October 1987

GEOLOGICAL BRANCH
ASSIGNMENT REPORT

16,531

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INTRODUCTION

On August 9, 1987 a crew of three did a prospecting traverse on the Jack Claim (20 units). The following report is intended to satisfy assessment requirements for 1987.

Location and Access

The claim is located about 8 km northwest of the Galore Creek porphyry copper deposit and is about 10 km east of the Stikine River on Jack Wilson Creek. Access is by helicopter, the nearest road being the Stewart-Cassiar Highway about 80 km to the east.

Physiography

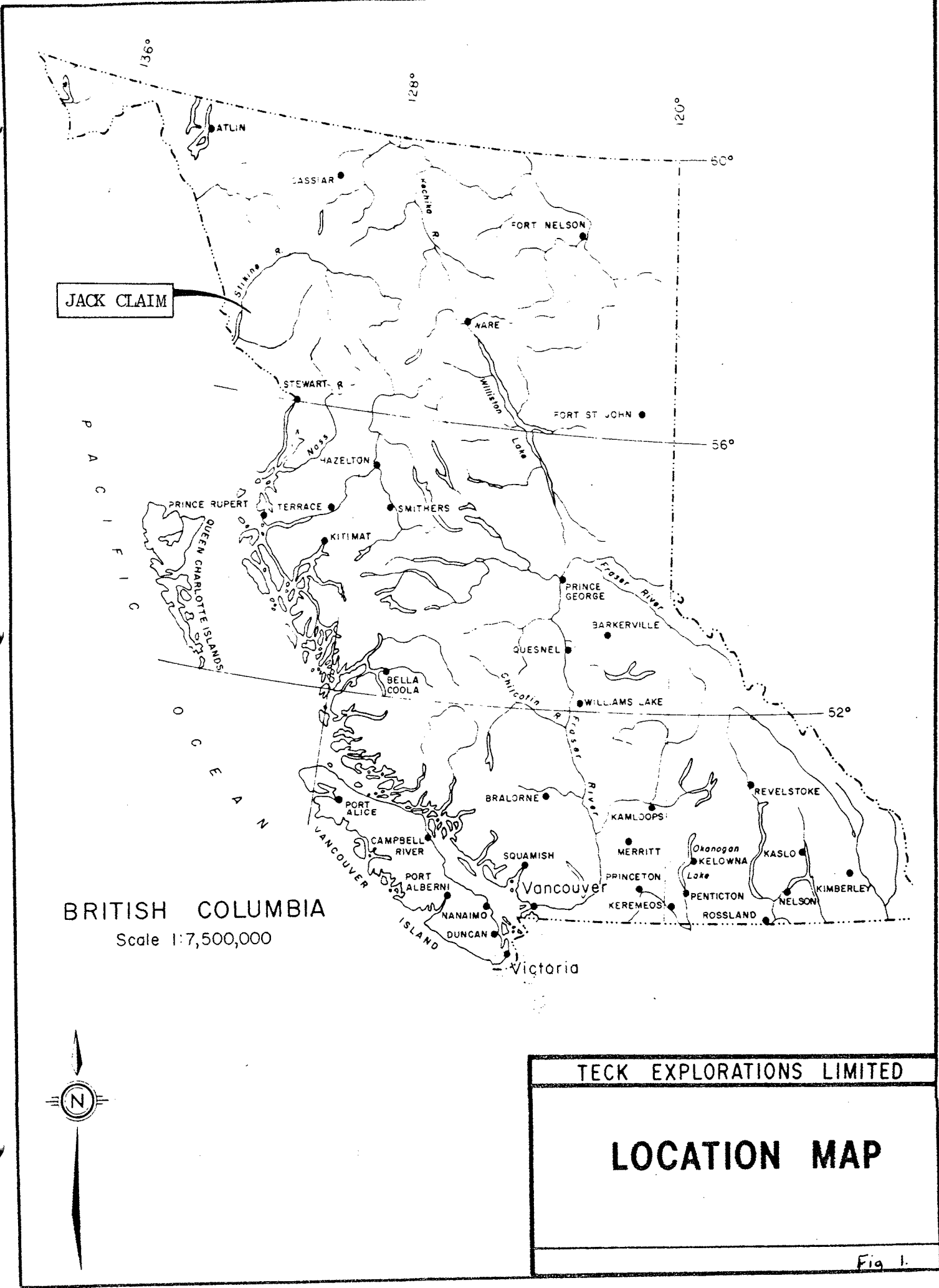
The claim covers the precipitous north facing slope of Saddlehorn Mountain (Fig. 2) from elevations of about 370 m to above 2,100 m. Topography is very rugged and most of the property is actually too steep to traverse safely without mountain climbing equipment. At lower elevations where topography is less severe the slopes are thick with slide alder and devil's club. Overall, the conditions for prospecting are somewhat unpleasant.

Claim

The Jack claim, record no. 3643 was staked by Consolidated Silver Standard Mines Limited on the 30th of August, 1986 and was recorded on September 19. It comprises 20 units.

History

The area has been the site of exploration for copper from the late 50's however as far as is known no comprehensive work or drilling has been done on the Jack Claim. Galore Creek about 8 km to the southeast is an important porphyry copper deposit with significant gold and silver values.



JACK CLAIM

BRITISH COLUMBIA
Scale 1:7,500,000

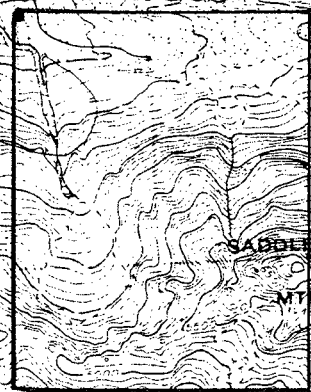
TECK EXPLORATIONS LIMITED

LOCATION MAP

Fig. 1.



J a c k W i l s o n C r e e k



SADDLEHORN
MTN

JACK CLAIM

G E S

SADDLE
MTN

S)

TECK EXPLORATIONS LIMITED
LIARD MINING DIVISION

CLAIM MAP



FIG. 2

Work Done

One day was spent prospecting on the claim. 12 soil, 1 silt and 7 rock samples were taken.

REGIONAL GEOLOGY

Upper Triassic volcanic and sedimentary rocks are intruded by hornblende bearing dioritic rocks of the Hickman Batholith. Hornfelsic alteration and pyrite occurrences are very common in the general area. Copper occurrences probably related to the porphyry-type mineralization at Galore Creek about 8 km to the southeast are also quite common.

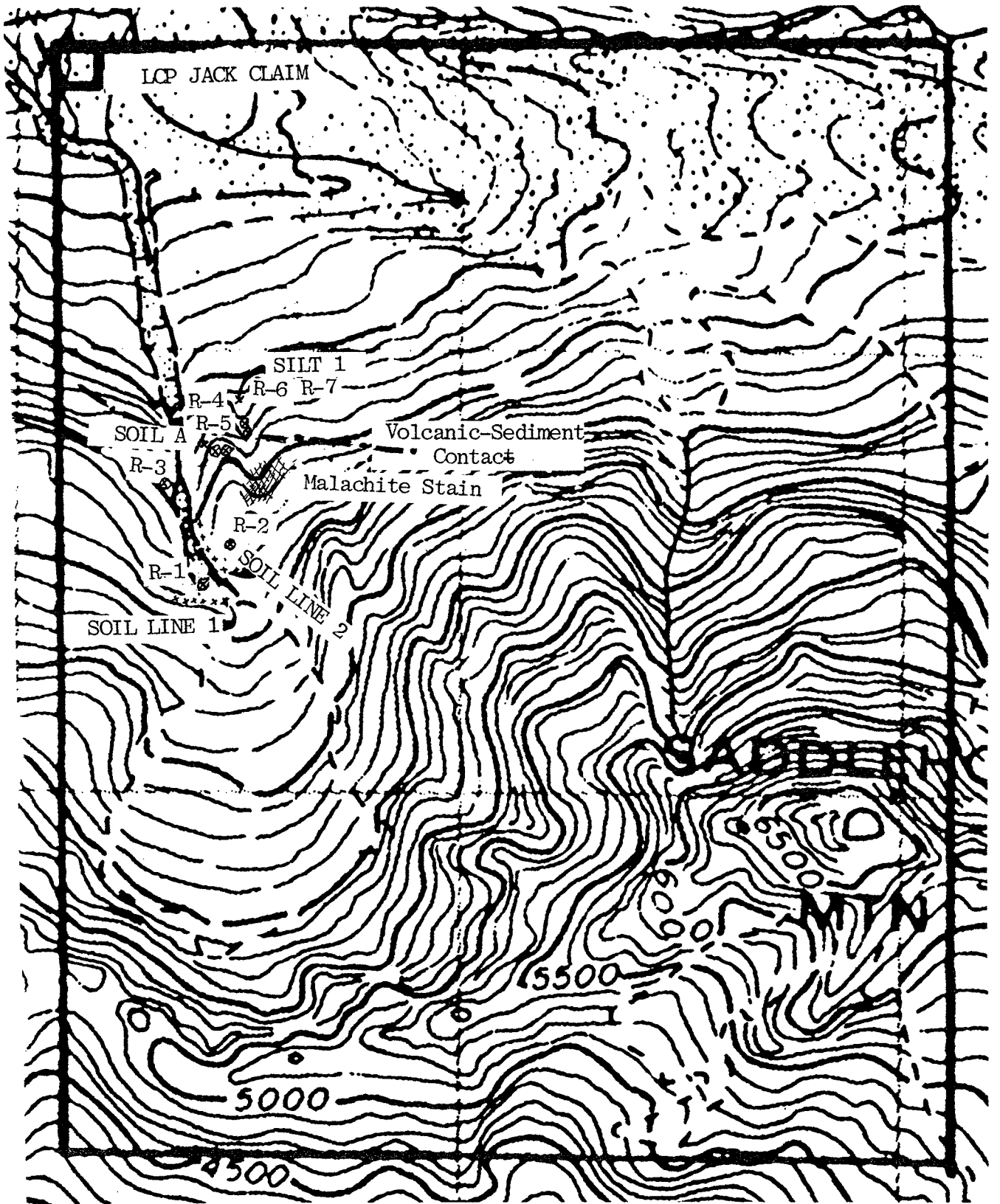
PROPERTY GEOLOGY

Complexly faulted and folded tuffaceous volcanic rocks are in contact with black phyllites and ankeritic sediments which occur topographically lower on the mountainside. A 2 metre thick grey quartz vein occurs near the contact zone. Narrow felsite intrusive dykes cross-cut the volcanic and sedimentary stratigraphy.

Pyrite mineralization is ubiquitous in the volcanics and produces prominent gossans. These rusty zones are occasionally mixed with bright green malachite stained areas which on examination are produced from disseminated and fracture chalcopryrite and pyrite. The best malachite stained area was not examined due to difficult access. Ankeritic beds near the volcanic-sediment contact contain pyrite and minor amounts of green mica (mariposite). A 2 metre wide glassy quartz vein located in the same area contained pyrite and galena particularly on the hanging wall.

RESULTS

32 element ICP analyses were performed on all rocks, soils and silt samples. Gold was determined either by neutron activation or by a combination of fire assay and atomic absorption techniques. The analytical results, certified by Chemex Labs Ltd., Vancouver are enclosed in the appendix.



LCP JACK CLAIM

SILT 1

R-4 R-6 R-7

SOIL A

R-3

Volcanic-Sediment
Contact

Malachite Stain

R-2

R-1

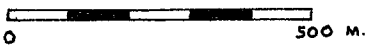
SOIL LINE 2

SOIL LINE 1

5500

5000

4500



JACK CLAIM
PROSPECTING AND SAMPLE LOCATION MAP

As expected all of the soil and silt samples show a high copper content - from 188 PPM to 784 PPM. Unfortunately the gold-silver results are unspectacular as are the precious metal indicator elements As, Bi, Hg, Sb, Se, Tl and V. The one possible exception is sample #JW1-Line 2 with 117 PPB Au, 2.0 PPM Ag. Although no barite was noted the geochemical results suggest that low levels of barium may be present.

Except for two samples the rock sampling results are negative. Sample JWR-5 represents 0.1 m of the hanging wall of a 2 m wide quartz vein. It contains 49.4 PPM Ag, 2,050 PPM Zn, more than 10,000 PPM Pb and 290 PPB Au. These values are of no economic interest over such a narrow width. Sample JWR-7 represents copper stained angular float in the creek below brightly malachite stained cliffs. Although the copper value (0.257%) would be of interest in a porphyry copper situation the gold values (less than 5 PPB) are weak. The following is a description of the rock samples taken:

- #R-1 1 m sample in pyritic felsite, contains pink calcite and quartz veinlets.
- R-2 Pyrite-sericite zone 1 m wide above copper-stained zone.
- R-3 quartz breccia in black phyllites above falls, east of creek.
- R-4 2 m glassy quartz vein @ 105/50 south black phyllite in hanging wall.
- R-5 0.1 m of hanging wall of vein, pyrite, galena.
- R-6 In creek, mariposite-pyrite in large ankeritic boulder.
- R-7 Float copper stained volcanic rocks.

CONCLUSION

The prospecting traverse encountered significant porphyry type copper mineralization but negligible precious metals.

CERTIFICATE OF QUALIFICATIONS

Peter G. Folk, P. ENG.

I hereby certify that:

1. I graduated from the University of British Columbia in 1971 with a B.A.Sc. degree in geological engineering.
2. I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.
3. I have worked since graduation as an exploration geologist and mine geologist in Canada and the United States.
4. The work described herein was done under my direct supervision.

A handwritten signature in black ink, appearing to read "Peter G. Folk", is located in the lower right quadrant of the page. The signature is written in a cursive, somewhat stylized script.

ITEMIZED COST STATEMENT

P. Folk, P.Eng. 1 day	\$ 230
J. Bacon, Prospector 1 day	\$ 132
R. Folk, Helper 1 day	\$ 93
Northern Mountain Helicopters Hughes 500-D from Snippaker airstrip 2.3 hrs. @ \$630/hr.	\$1,449
Assays, Chemex Labs 20 analyses @ \$13.00	\$ 260
Report Preparation	\$ 300
	<hr/>
	\$2,464

Pete Folk

APPENDIX

ANALYTICAL RESULTS



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: CONSOLIDATED SILVER STANDARD MINES LIMITED

11th Floor, 1199 W. HASTINGS ST.
VANCOUVER, B.C.
V6E 3T5

Project: C1031

Comments: ATTN: R. QUARTERMAIN

Page No. : 1-A

Tot. Pages: 1

Date : 12-SEP-87

Invoice # : I-8721287

P.O. # : NONE

CERTIFICATE OF ANALYSIS A8721287

SAMPLE DESCRIPTION	PREP CODE		Au ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
			FA+AA																		
JW R-1	205	238	< 5	0.24	< 0.2	< 5	350	< 0.5	< 2	1.36	< 0.5	3	51	28	1.07	< 10	1	0.20	10	0.03	384
JW R-2	205	238	215	0.81	1.0	5	100	< 0.5	< 2	0.55	< 0.5	8	18	161	2.74	< 10	2	0.52	10	0.27	86
JW R-3	205	238	< 5	0.14	< 0.2	5	50	< 0.5	< 2	0.40	< 0.5	1	159	15	0.79	< 10	1	0.07	< 10	0.10	121
JW R-4	205	238	< 5	0.02	< 0.2	475	< 10	< 0.5	< 2	0.01	0.5	< 1	169	1	0.23	< 10	1	< 0.01	< 10	< 0.01	16
JW R-5	205	238	290	0.04	49.4	1575	130	< 0.5	10	< 0.01	31.0	2	225	56	4.87	< 10	< 1	0.02	< 10	< 0.01	27
JW R-6	205	238	< 5	0.42	1.0	80	140	< 0.5	< 2	6.45	1.0	26	92	62	3.96	< 10	1	0.29	< 10	2.41	980
JW R-7	205	238	< 5	0.73	1.2	15	830	< 0.5	< 2	4.47	1.0	30	89	2570	2.60	< 10	< 1	0.36	< 10	1.35	745

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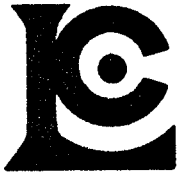
Invoice #: I-8721287

P.O. #: NONE

CERTIFICATE OF ANALYSIS A8721287

SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Se	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
JW R-1	205	238	< 1	0.04	< 1	170	18	< 5	< 10	88	0.02	< 10	< 10	3	< 5	3
JW R-2	205	238	3	0.01	< 1	3350	10	< 5	10	53	0.09	< 10	< 10	41	< 5	8
JW R-3	205	238	< 1	< 0.01	8	280	8	< 5	< 10	40	< 0.01	< 10	< 10	5	< 5	23
JW R-4	205	238	< 1	< 0.01	1	10	18	< 5	< 10	1	< 0.01	< 10	< 10	1	< 5	22
JW R-5	205	238	< 1	< 0.01	12	40	>10000	5	170	11	< 0.01	< 10	< 10	3	10	2050
JW R-6	205	238	< 1	0.01	95	1170	466	5	< 10	633	< 0.01	< 10	< 10	26	5	79
JW R-7	205	238	< 1	0.01	33	1240	226	< 5	< 10	223	0.03	< 10	< 10	30	5	63

CERTIFICATION :



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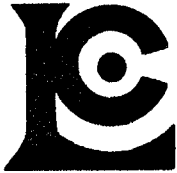
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CERTIFICATE OF ANALYSIS A8721288

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
J.W. SOIL A	202 238	64	2.18	< 0.2	15	170	< 0.5	< 2	0.74	0.5	52	12	754	6.54	< 10	< 1	0.19	< 10	1.83	1920
J.W. SILT 1	202 238	76	1.29	0.2	40	110	< 0.5	< 2	1.01	0.5	39	24	784	4.43	< 10	< 1	0.18	10	0.93	1235
LINE 1 JW 1	202 238	7	1.86	0.4	5	160	< 0.5	< 2	0.52	0.5	27	4	396	7.97	< 10	< 1	0.43	10	1.62	1095
LINE 1 JW 2	202 238	78	2.00	0.2	< 5	160	< 0.5	< 2	0.80	0.5	31	9	359	5.08	< 10	1	0.55	10	1.70	1700
LINE 1 JW 3	202 238	24	1.21	0.2	< 5	70	< 0.5	< 2	1.18	0.5	20	3	188	4.43	< 10	< 1	0.20	10	0.80	779
LINE 1 JW 4	202 238	26	1.51	0.2	< 5	130	< 0.5	< 2	0.98	0.5	24	6	331	4.59	< 10	< 1	0.24	10	1.15	1170
LINE 1 JW 5	202 238	32	1.79	0.2	5	190	< 0.5	< 2	1.14	0.5	24	4	381	4.88	< 10	< 1	0.26	10	1.29	1455
LINE 1 JW 6	217 238	6	1.81	< 0.2	< 5	200	< 0.5	< 2	1.02	0.5	21	13	324	3.58	< 10	< 1	0.27	10	1.43	1545
LINE 2 JW 1	202 238	117	1.28	2.0	< 5	50	< 0.5	< 2	0.70	< 0.5	6	6	128	3.10	< 10	< 1	0.35	< 10	1.18	390
LINE 2 JW 2	202 238	51	1.72	0.2	< 5	60	< 0.5	< 2	1.04	0.5	22	12	306	4.97	< 10	< 1	0.24	10	1.38	1120
LINE 2 JW 3	202 238	108	1.76	0.4	< 5	90	< 0.5	< 2	0.79	0.5	20	14	399	5.90	< 10	< 1	0.24	10	1.47	969
LINE 2 JW 4	202 238	76	1.63	0.2	< 5	80	< 0.5	< 2	0.83	0.5	23	10	414	4.95	< 10	< 1	0.29	10	1.44	1130
LINE 2 JW 5	202 238	78	1.83	0.4	5	60	< 0.5	< 2	0.97	0.5	37	10	708	5.72	< 10	< 1	0.20	10	1.74	1845

CERTIFICATION : BCJ



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Tot. Pages: 1

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CERTIFICATE OF ANALYSIS A8721288

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
J.W. SOIL A	202 238	5	< 0.01	16	2550	16	< 5	< 10	156	0.17	< 10	< 10	140	< 5	113
J.W. SILT 1	202 238	< 1	< 0.01	30	1600	10	< 5	< 10	150	0.11	< 10	< 10	90	< 5	144
LINE 1 JW 1	202 238	11	0.01	4	3160	28	< 5	< 10	139	0.16	< 10	< 10	89	< 5	96
LINE 1 JW 2	202 238	3	0.01	6	2010	< 2	< 5	< 10	166	0.20	< 10	< 10	104	< 5	118
LINE 1 JW 3	202 238	< 1	< 0.01	5	2420	< 2	< 5	< 10	219	0.15	< 10	< 10	121	< 5	64
LINE 1 JW 4	202 238	< 1	0.01	5	2300	14	< 5	< 10	191	0.15	< 10	< 10	118	< 5	87
LINE 1 JW 5	202 238	< 1	0.01	6	2310	16	< 5	< 10	225	0.16	< 10	< 10	130	< 5	118
LINE 1 JW 6	217 238	< 1	0.03	5	1760	14	< 5	< 10	173	0.16	< 10	< 10	118	< 5	158
LINE 2 JW 1	202 238	23	< 0.01	8	1050	48	< 5	< 10	185	0.23	< 10	< 10	101	< 5	97
LINE 2 JW 2	202 238	< 1	0.01	5	2090	4	< 5	< 10	181	0.20	< 10	< 10	135	< 5	85
LINE 2 JW 3	202 238	6	0.01	8	2550	16	< 5	< 10	146	0.18	< 10	< 10	145	< 5	81
LINE 2 JW 4	202 238	< 1	0.01	6	1980	10	< 5	< 10	137	0.16	< 10	< 10	106	< 5	89
LINE 2 JW 5	202 238	< 1	0.01	9	1920	10	< 5	< 10	160	0.17	< 10	< 10	122	< 5	130

CERTIFICATION :

BCJ