

87-272-15873

6/88

D. L. COOKE AND ASSOCIATES LTD.
MINERAL EXPLORATION CONSULTANTS

**ASSESSMENT REPORT ON THE
GEOLOGY AND SOIL GEOCHEMISTRY OF THE
BLACK ROCK PROPERTY
SALMO AREA, B.C.**

Nelson Mining Division
N.T.S. 82 F / 3 E
Latitude: 49° 08'
Longitude 117° 12'

For

ST. JAMES'S MINERALS LTD.
212 - 475 Howe Street
Vancouver, B.C.
V6C 2B3

FILMED

By

DAVID L. COOKE, Ph.D., P.Eng.
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David L. Cooke



15,873

GEOLOGICAL BRANCH
ASSESSMENT REPORT

Work Done: September 10 - 18, 1986

Report Date: June 8, 1987

TABLE OF CONTENTS

	Page
Summary and Conclusions	1
Introduction	1
Location and Access	2
Property and Ownership	2
History and Previous Work	3
Regional Geology	3
Property Geology	4
Mineralization	4
Soil Geochemistry	5
Recommendations	6
References	7

Illustrations

- Figure 1 - Location Map - Black Rock Property
- Figure 2 - Claim Map - Black Rock Property; 1:50,000
- Figure 3 - Geology - Black Rock Property; 1:5,000
- Figure 4 - Geochemistry - Ag, Pb, Zn, Black Rock Property; 1:5,000

Appendices

- Appendix I Statement of Expenditures
- Appendix II Statement of Qualifications
- Appendix III Analytical Results

SUMMARY AND CONCLUSIONS

The Black Rock mineral claims cover known lead, zinc and silver mineralization within Cambrian limestones on both sides of Sheep Creek adjacent to the HB Mine property. Preliminary geological mapping uncovered additional lead-zinc mineralization in float on the north side of Sheep Creek. Follow-up mapping and soil geochemistry in 1986 defined linear Pb-Zn-Ag anomalies in this area which are parallel to the strike of the underlying formations. Extensive diamond drilling by previous operators upslope from the area of mineralized float failed to intersect mineralization of similar character. The source of this mineralized float may be shallow in depth or lower down in the valley than previously believed.

Further evaluation of this favourable area should consist of trenching of the anomalous areas to get a better understanding of the source and/or dispersion pattern of the mineralized float and soil geochemical anomalies. This should be followed by diamond drilling. Additional soil sampling to the north is also recommended because the soil anomalies are open in that direction.

INTRODUCTION

Geological mapping and soil sampling were initiated on the Black rock property at the request of St. James's Minerals Ltd. The work consisted of the cutting of 9.4 kilometres of lines onto the existing grid from 7+00N to 22+00N, and, geological mapping and soil sampling at 25 metre sample spacings on the grid lines 100 metres apart. The geological and geochemical work was done by D.L. Cooke, assisted by Charlie Pittman, during the period September 10 -19, 1986. Linecutting was done under contract by Ken Murray of Nelson, B.C.

The geological data, line cutting and soil sampling are herein submitted for three year's assessment credits. The statement of expenditures includes the cost of analysis of soil samples collected June 5-15, 1986 and September 10-18, 1986.

LOCATION AND ACCESS

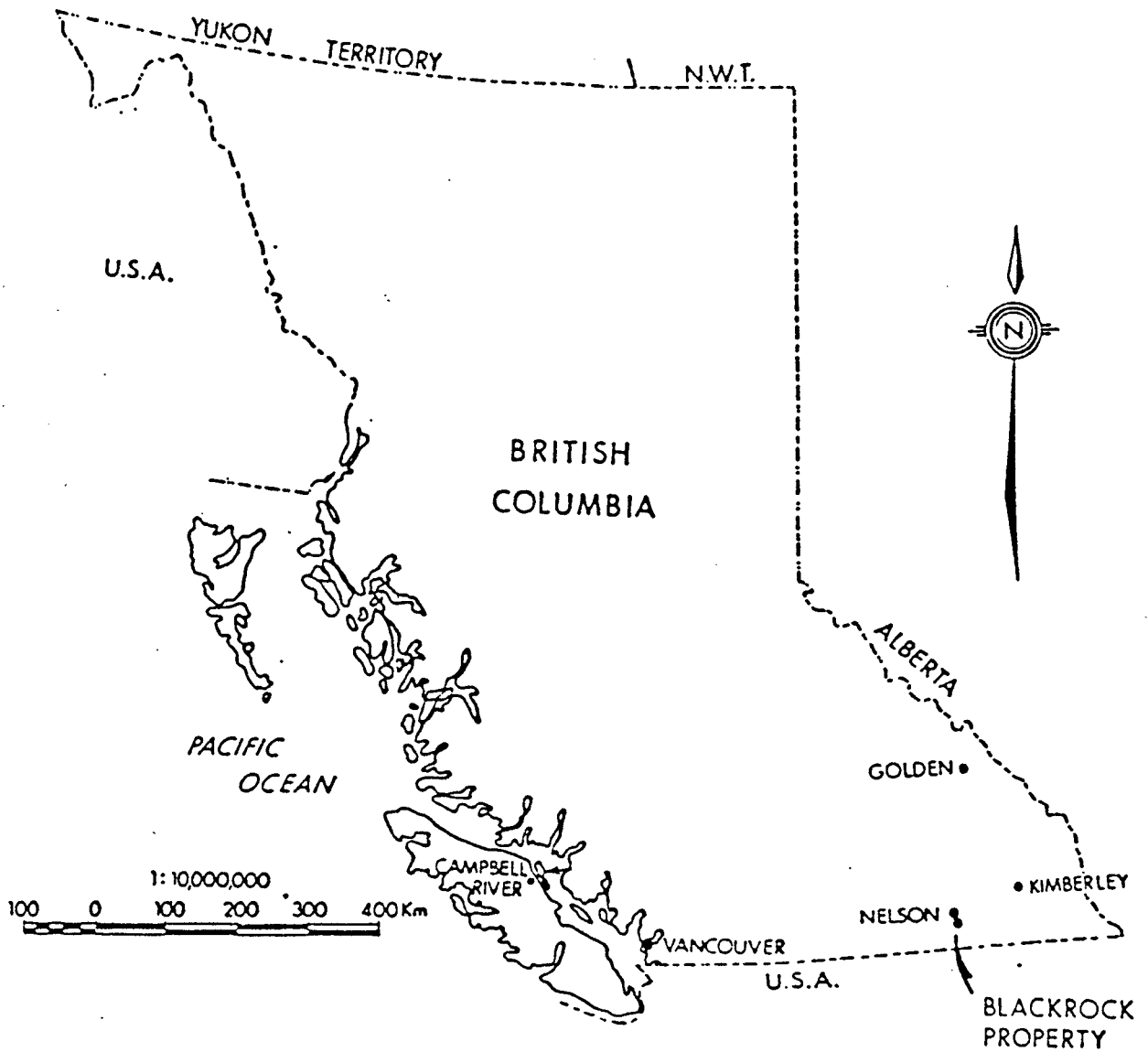
The Black Rock claims are situated on Sheep Creek, 12 kilometres south of Salmo, B.C. (Figure 1). The property lies on the western boundary of the HB Mine property, and immediately to the north of the Emerald Mine property. Elevations on the property range from 700 to 1500 metres. The area is well timbered with fir, pine and birch. Sheep Creek runs westerly across the northern third of the property.

Access is by paved highway, 10 kilometres south from Salmo, B.C. and then by 2 to 3 kilometres of good gravel road east to the property. The northern section of the property is traversed in an east-west direction by the HB Mine road and the southern section of the Emerald Mine road, which runs from north to south.

PROPERTY

The Black Rock property (Figure 2) consists of the following 21 Crown granted and reverted Crown granted mineral claims:

<u>Name</u>	<u>Lot No.</u>	<u>Record No.</u>	<u>Record Date</u>
Black Rock No. 11 Fr.	14405	3183	June 22, 1987
Black Rock No. 12 Fr.	14406	3184	June 22, 1987
Black Rock No. 13 Fr.	14407	3185	June 22, 1987
Black Rock No. 10 Fr.	14408	3186	June 22, 1987
Black Rock No. 15 Fr.	14409	3187	June 22, 1987
Black Rock No. 16 Fr.	14410	3188	June 22, 1987
Black Rock No. 17 Fr.	14411	3189	June 22, 1987
Black Rock No. 5 Fr.	14412	3190	June 22, 1987
Black Rock No. 6 Fr.	14413	3191	June 22, 1987
Black Rock No. 7 Fr.	14414	3192	June 22, 1987
Black Rock Fraction	14415	3193	June 22, 1987
Black Rock No. 1	15455	3194	June 22, 1987
Black Rock No. 2	15456	3195	June 22, 1987
Black Rock No. 3	15457	3196	June 22, 1987
Black Rock No. 4	15458	3197	June 22, 1987
Black Rock No. 19 Fr.	15462	3197	June 22, 1987
Black Rock No. 8	15459	3198	June 22, 1987
Black Rock No. 9 Fr.	15460	3199	June 22, 1987
Black Rock No. 18 Fr.	15461	3200	June 22, 1987
Black Rock No. 20	15463	3201	June 22, 1987
Black Rock No. 21 Fr.	15464	3202	June 22, 1987



ST. JAMES'S MINERALS LTD.

FIGURE 1
BLACK ROCK PROPERTY

PROPERTY INDEX MAP
NELSON M.D. NTS 82F/ 3E



To Salmo

To Aspen Mine

To Goldbelt Mine

3
6

14411 14410

14409

14407

14406

14405

14408

HB Mill

Sheep Creek

14414

15461

14413

14412

14415

15455

15456

15462

15457

15458

15459

15463

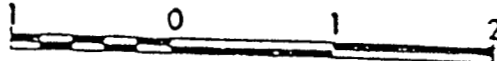
15464

15460

Emerald Mine

Jersey Mine

Lost Creek



Scale 1:50 000

ST. JAMES'S MINERALS LTD.

FIGURE 2

CLAIM MAP

BLOCK ROCK PROPERTY

NELSON M.D.

NTS 82F/3E

The claims are owned by St. James's Minerals Ltd., the wholly owned subsidiary of Source Resources Ltd.

HISTORY AND PREVIOUS WORK

The Black Rock property has been the subject of many exploration programs between 1947 and 1984. Copper gold mineralization was found on the property by J. Baxter in 1919. Cominco optioned the claims from L.R. Clubine and drilled three holes in 1947. American Zinc Co. drilled 17,000 to 18,000 feet in 34 holes during the period 1951 - 1953. Extensive trenching was done in 1959 without success by the same company to find the source of sulphide bearing boulders north of Sheep Creek. Soil sampling by Mentor Explorations Ltd. in 1979 outlined Pb-Zn anomalies north of Sheep Creek, but no bedrock was uncovered by test pits. In 1984 Greenwich Resources Ltd. did soil sampling, rock sampling and a test VLF-EM survey on the claims south of Sheep Creek.

REGIONAL GEOLOGY

The Black Rock claim group is located in the Nelson Map Area (West Half) and has been mapped and reported on by Little, 1960 and 1964.

The property is underlain by units of the Cambrian Laib Formation and includes a variety of sedimentary rock types including phyllites, argillites, quartzites, limestones and schists.

Mineral potential of the Black Rock claim group is related to replacement silver-bearing base metal mineralization, contact metasomatic tungsten occurrence and gold-bearing vein structures. The property is conveniently located north of the Emerald mine which produced tungsten concentrates during the 1940's and 1950's and is west of the HB Mine which produced silver, lead and zinc up to the late 1960's. In addition, the property is peripheral to the Sheep Creek Gold Camp which is one of the most significant gold producing areas of southeastern British Columbia.

PROPERTY GEOLOGY

Soil cover is well developed, consequently rock exposures are limited mainly to steep valley sides, road cuts and rock units such as limestones which form resistant ridges throughout the area. The geology of the claims is characterized by one or more limestone units (Reeves limestone) which are a part of the Laib Formation of Cambrian age, interbedded with quartzites and phyllites (Figure 3). Several limestone units have been mapped on the north side of Sheep Creek. These are nearly vertical in dip and they occur within laminated phyllitic limestones and phyllites. Only a single grey limestone unit has been mapped on the south side of Sheep Creek, and it is not readily correlated with the limestones on the north side of the creek. Quartzite beds seem more common in the southern area. Minor amounts of skarn minerals are developed within the limestone and biotite hornfels of the sediments on both sides of the creek. A small granitic intrusion occurs in the southwestern part of the property, and it accounts for the development of biotite hornfels in the sedimentary rocks in that area.

Recent road building by loggers near the confluence of Sheep and Annie Rooney Creeks has exposed a black limestone unit and associated quartzites and sediments. The trends appear to be north-south with near-vertical dips. A major fold in the limestone units is interpreted in this new exposure, which is lithologically similar to that which occurs to the southwest on the Emerald Mine road.

MINERALIZATION

Minor sphalerite and galena mineralization was observed in a number of pits and trenches along the baseline between grid locations 1+00 and 3+00 south (Figure 3). Here the mineralization occurs as discrete blebs or irregular streaks and patches within the limestone. Rusty limonitic boxworks characterize the more massive areas of this mineralization. This mineralization appears to be fracture-controlled.

The sulphides found in float on the north side of Sheep Creek are of two types. That which occurs higher up on the hill consists of sphalerite and galena cementing silicified limestone breccia. The mineralized float found at lower elevations occurs in layers within recrystallized and silicified limestone. The sphalerite and galena layers alternate with layers of wollastonite, interpreted as skarn mineralization. Somewhat similar mineralization was noted in place on the HB mine property (at similar elevations) immediately east of the Black Rock claim L14408 (Figure 3).

SOIL GEOCHEMISTRY

Sampling and Analytical Procedure

Soil samples were collected at 25 metre intervals along lines 100 metres apart. Samples were taken with a mattock from depths of 15 cm to 30 cm, placed in numbered kraft paper bags, and shipped to Min-En Laboratories Ltd. in North Vancouver for analysis.

Soil samples were dried at approximately 90°C and then sieved to minus 80 mesh. Rock samples were crushed and pulverized. A 1.0 gram sample was then digested with HNO₃ and HClO₄ mixture. Samples were diluted to standard volume after cooling, and the solutions analyzed by computer operated Jarrell Ash 9000 Induction Coupled Plasma (ICP) Analyzer. The following six elements were determined by ICP: Ag, As, Cu, Pb, Zn and W. Gold was determined by atomic absorption spectrophotometry.

Presentation and Discussion of Results

The analytical results are presented in Appendix III. The results for Ag, Pb and Zn in soils are plotted in Figure 4. Rock sample locations are indicated on Figure 3, and the corresponding analytical results appear in Appendix III.

The analytical results for Cu, As and W were not plotted because they generally fall in a narrow range of values. The anomalous values contoured on Figure 4 are Ag: +1.3 ppm; Pb: +300 ppm; and Zn: +1500 ppm.

The most obvious characteristic of the anomalous patterns is that there are few anomalous soils associated with the Pb and Zn occurrences lying on the south side of Sheep Creek. Strong coincident Ag, Pb and Zn soil anomalies occur on the north side of the creek on claims L14405 and L14406. These anomalies trend north-south, parallel to limestone units, and extend up slope from the area of lead and zinc mineralization in limestone float. Weaker silver-lead anomalies occur on both sides of the strong coincident silver, lead and zinc anomalies. Scattered anomalous gold and silver values are also present.

RECOMMENDATIONS

Additional soil sampling of the area to the north of grid line 22+00N is recommended along east-west grid or contour lines. The anomalous areas already defined by soil sampling warrant further evaluation by trenching and diamond drilling.

Report by
D.L. COOKE AND ASSOCIATES LTD.



David L. Cooke, Ph.D., P.Eng.
June 8, 1987



REFERENCES

British Columbia Dept. of Mines and Petroleum Resources

Mineral Inventory Data. To include:

1. BCDM Open File (maps)
2. BCDM MMAR: 1947, p. 163; 1950, p. 128; 1951, p. 139; 1952, p. 147; 1953, p. 117.

Fyles, J.T. and Hewlett, C.G., 1959.

Stratigraphy and Structure of the Salmo Lead-Zinc Area. British Columbia Dept. of Mines, Bulletin No. 41, p. 104-5.

Little, H.W., 1960.

Nelson Map Area (West Half) British Columbia (82F W1/2). Geological Survey of Canada Memoir 308.

Little, H.W., 1964.

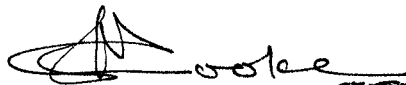
Geological Survey of Canada Map 1145A.

APPENDIX I

STATEMENT OF EXPENDITURES

Black Rock Property - Nelson M.D.

Linecutting:		
Contract, 9.4 km at \$240/km		\$ 2,256.00
Geology:		
Salaries		
D.L. Cooke, Geologist, Sept. 10-18, 1986		
9 days at \$350/day	3,150.00	
Equipment and supplies	<u>284.60</u>	3,434.60
Geochemistry:		
Salaries		
C. Pittman, Assistant, Sept. 11-15, 1986		
5 days at \$125/day	625.00	
Analyses		
Min-En Labs	3,553.90	
Drafting and reproductions	<u>533.63</u>	4,712.53
Domicile:		
Room and board		288.28
Transportation:		
Air fare, Vancouver/Castlegar and return	209.00	
U-Drive	<u>636.56</u>	845.56
Report:		
D.L. Cooke, June 4 and 5, 1987		
2 days at \$350/day	700.00	
Typing and photocopying	<u>50.00</u>	<u>750.00</u>
Total Expenditures		<u><u>\$12,286.97</u></u>



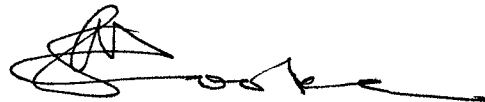
D. L. COOKE AND ASSOCIATES LTD.
MINERAL EXPLORATION CONSULTANTS

APPENDIX II

STATEMENT OF QUALIFICATIONS

I, DAVID LAWRENCE COOKE, of the Municipality of Surrey in the Province of British Columbia, hereby certify:

1. That I am a Consulting Geologist, residing at 16331 Bell Road, Surrey, B.C., V3S 1J9, with a business office at 808 - 675 West Hastings Street, Vancouver, B.C., V6B 1N2.
2. That I graduated with a B.Sc. degree in Geology from the University of New Brunswick in 1959, and with a M.A. degree and Ph.D. degree in Geology from the University of Toronto in 1961 and 1966 respectively.
3. That I have practised my profession as an exploration geologist from 1959 to the present time in Canada, the U.S.A., Mexico, the Caribbean and South America.
4. That I am a Registered Member of the Association of Professional Engineers of the Province of British Columbia.
5. That I carried out the exploration program on the Black Rock claims, during the period September 10th - 18th, 1986, and am the author of this report.



DAVID L. COOKE, PH.D., P.ENG.



APPENDIX III

ANALYTICAL RESULTS

COMPANY: D.L.COOKE
 PROJECT NO: BLACK ROCK-NELSON
 ATTENTION: D.L.COOKE

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACT:GEO27) PAGE 1 OF 1
 FILE NO: 6-3546/P1+2
 DATE: AUGUST 11, 1986

(VALUES IN PPM)	AG	AS	CU	PB	ZN	W
BLACK ROCK 1	.3	1	26	168	920	2
BLACK ROCK 1A	.6	1	32	169	922	4
BLACK ROCK 2	.3	1	28	109	618	3
BLACK ROCK 2A	.7	1	36	117	702	3
BLACK ROCK 3	.5	1	22	214	1345	5
BLACK ROCK 3A	1.1	1	32	189	1065	3
BLACK ROCK 4	.3	1	20	245	1887	5
BLACK ROCK 4A	1.0	1	28	205	1520	6
BLACK ROCK 5	.2	1	22	249	2320	6
BLACK ROCK 5A	.6	1	34	117	1613	7
BLACK ROCK 6	1.0	1	33	282	1841	5
BLACK ROCK 6A	.8	1	30	351	1098	5
BLACK ROCK 7	1.5	1	32	350	3564	8
BLACK ROCK 7A	2.2	1	36	368	3720	8
BLACK ROCK 8	1.3	1	31	268	1144	3
BLACK ROCK 8A	1.1	1	28	303	1316	5
BLACK ROCK 9	1.2	1	28	674	1814	3
BLACK ROCK 9A	1.7	1	42	647	1903	6
BLACK ROCK 10	.2	1	18	330	1221	3
BLACK ROCK 10A	1.3	4	32	458	1368	5
BLACK ROCK 11	1.1	1	27	132	694	2
BLACK ROCK 11A	1.3	4	41	174	768	4
BLACK ROCK 12	.3	1	26	133	865	3
BLACK ROCK 12A	.6	1	29	82	353	2
ANNIE ROONEY 1	1.3	1	37	46	382	1
ANNIE ROONEY 2	.7	1	20	20	251	1
ANNIE ROONEY 3	.6	1	21	29	322	1
ANNIE ROONEY 4	.8	1	22	45	402	1
BL 3+20N	.6	2	34	47	102	3
BL 3+92N	.4	1	16	36	108	2
BL 4+00N	.5	1	14	35	158	2
BL 4+25N	.9	1	16	33	171	1
BL 4+50N	.7	1	18	95	337	2
BL 4+75N	.6	1	14	20	80	1
BL 5+00N	.5	1	16	22	95	1
BL 5+25N	.6	1	18	38	126	2
BL 5+50N	.7	1	14	209	289	2
BL 5+75N	.7	1	14	22	111	1
BL 6+00N	.5	1	15	26	108	2
BL 6+25N	.3	1	18	55	134	1
BL 6+50N	.3	1	14	34	130	2
BL 6+75N	.3	1	15	33	159	1
BL 7+00N	1.1	1	21	29	111	1
BL 3+25S	.8	1	22	36	187	1
BL 3+50S	.4	1	17	35	180	1
BL 3+75S	.8	1	24	32	171	1
BL 4+00S	.6	1	23	27	178	1
BL 4+25S	.4	1	17	37	168	3
BL 4+50S	.5	1	38	46	178	3
BL 4+75S	.4	1	12	30	176	2
BL 5+00S	.8	1	20	27	202	1
BL 5+25S	1.3	1	56	48	236	1
BL 5+50S	1.1	1	28	44	223	1
BL 5+75S	.5	1	13	32	113	3
BL 6+00S	.6	1	18	45	171	2
BL 6+25S	.7	1	14	26	170	2
BL 6+50S	.8	1	30	161	217	3
BL 7+00S	.6	1	18	52	179	1
BL 7+25S	.6	1	16	34	175	2

COMPANY: D.L.COOKE
 PROJECT NO: BLACK ROCK-NELSON
 ATTENTION: D.L.COOKE

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACT:6E027) PAGE 1 OF 1
 FILE NO: 6-3548/P3
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(VALUES IN PPM)	AG	AS	CU	PB	ZN	W
BL 7+50S	.4	1	31	47	194	2
BL 7+75S	.8	1	32	48	209	1
BL 8+00S	.5	1	21	37	175	2
BL 8+25S	1.0	1	22	29	191	1
BL 8+50S	.9	1	17	38	240	2
BL 8+75S	.8	1	22	39	212	1
BL 9+00S	.7	1	19	40	186	1
BL 9+25S	.7	1	24	32	187	1
BL 9+50S	.6	1	28	34	191	1
BL 9+75S	.5	1	15	27	165	1
BL 10+06S	.6	1	28	65	213	4
L0+00BL	1.5	1	15	995	2627	8
L0+00 0+25W	.9	1	21	21	95	1
L0+00 0+50W	.4	1	19	20	124	1
L0+00 0+75W	.7	1	20	28	184	1
L0+00 1+00W	.7	1	48	97	294	1
L0+00 0+25E	.4	1	15	273	1359	5
L0+00 0+50E	.6	1	12	37	276	1
L0+00 0+75E	.6	1	20	46	153	1
L0+00 1+00E	.6	1	17	63	108	1
L0+00 1+25E	.4	1	18	40	109	1
L0+00 1+50E	.6	1	19	28	106	1
L0+00 1+75E	.9	1	20	24	112	1
L0+00 2+00E	.4	1	15	25	111	1
L3+00N 0+31E	.4	1	17	28	120	1
L3+00N 0+50E	.4	1	18	23	178	1
L3+00N 0+75E	.8	1	26	43	237	1
L3+00N 1+00E	.7	5	23	52	511	2
L3+00N 1+25E	.5	1	16	28	139	1
L3+00N 1+50E	.3	1	21	40	102	1
L3+00N 1+75E	.5	1	21	27	67	1
L3+00N 2+00E	.9	1	27	28	90	1
L3+00N 0+25W	.8	1	23	36	90	1
L3+00N 0+50W	.5	1	29	41	111	1
L3+00N 0+75W	.7	1	29	37	94	1
L3+00N 1+00W	.8	1	16	28	95	1

COMPANY: D.L. COOKE
 PROJECT NO: BLACK ROCK-NELSON
 ATTENTION: D.L. COOKE

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

(ACT:GEO27) PAGE 1 OF 1
 FILE NO: 6-354S/P4+S

(604)980-5814 OR (604)988-4524 * TYPE SOIL GEOCHEM * DATE: AUGUST 11, 1986

(VALUES IN PPM)	AG	AS	CU	PR	ZN	N
L3+00N 1+25W	.4	1	13	24	157	3
L3+00N 1+50W	.1	1	20	40	46	5
L3+00N 1+75W	.9	1	17	40	210	2
L3+00N 2+00W	.4	1	13	21	138	2
L5+00N 0+29E	1.0	1	21	3849	1321	7
L5+00N 0+50E	.9	1	14	45	151	1
L5+00N 0+75E	.9	1	23	54	121	3
L5+00N 1+00E	.2	1	10	39	120	1
L5+00N 1+25E	.5	1	15	27	113	2
L5+00N 1+50E	.4	1	21	30	126	5
L5+00N 1+75E	1.0	1	27	32	241	2
L5+00N 2+00E	.3	4	28	70	1210	6
L5+00N 0+25W	.7	1	16	24	131	3
L5+00N 0+50W	.4	3	18	32	60	4
L5+00N 0+75W	.7	1	20	26	118	3
L5+00N 1+00N	.6	1	14	38	106	3
L5+00N 1+25W	1.1	1	17	18	120	2
L5+00N 1+50W	.7	1	14	24	98	2
L5+00N 1+75W	.2	1	10	35	72	2
L5+00N 2+00W	.5	1	19	25	166	3
L7+00N 0+25E	.7	1	15	20	104	1
L7+00N 0+50E	.7	1	12	27	135	2
L7+00N 0+75E	1.0	1	16	27	181	3
L7+00N 1+00E	.4	1	12	31	138	3
L7+00N 1+25E	.9	1	24	38	118	1
L7+00N 1+50E	.8	1	17	33	121	1
L7+00N 1+75E	.1	1	12	69	153	3
L7+00N 2+00E	.8	1	14	30	129	3
L7+00N 2+25E	.3	1	22	53	94	2
L7+00N 2+50E	.4	1	12	38	90	4
L7+00N 2+75E	.7	1	23	35	136	2
L7+00N 3+00E	.9	1	22	43	369	4
L7+00N 0+25W	.8	1	19	28	183	1
L7+00N 0+50W	.9	1	25	31	171	1
L7+00N 0+75W	.8	1	21	24	211	1
L7+00N 1+00W	.8	1	19	29	94	2
L7+00N 1+25W	1.1	1	22	32	134	2
L7+00N 1+50W	1.0	1	18	25	94	4
L7+00N 1+75W	.9	1	21	31	130	3
L7+00N 2+00W	.8	1	15	26	129	2
L7+00N 2+25W	1.0	7	44	46	112	4
L7+00N 2+50W	.9	1	29	26	117	2
L7+00N 2+75W	.8	1	23	29	171	3
L7+00N 3+00W	.3	1	15	25	139	2
L1+00S 0+25W	1.0	1	45	56	313	2
L1+00S 0+50W	1.7	1	28	13	120	2
L1+00S 0+75W	.9	1	25	16	178	1
L1+00S 1+00W	1.1	1	36	49	204	3
L1+00S 1+25W	1.1	1	20	29	237	1
L1+00S 1+50W	.9	1	22	27	170	1
L1+00S 1+75W	.7	1	24	38	87	1
L1+00S 2+00W	.9	1	17	31	228	2
L2+00S BL	.9	1	15	33	204	1
L2+00S 0+25E	.1	1	11	61	140	5
L2+00S 0+50E	1.2	1	27	52	136	4
L2+00S 1+00E	.9	1	20	24	133	1
L2+00S 1+25E	.7	1	19	37	139	1
L2+00S 1+50E	.8	1	24	19	120	1
L2+00S 1+75E	.8	1	14	35	149	3
L2+00S 2+00E	1.0	1	21	28	127	3

COMPANY: D.L.COOKE
 PROJECT NO: BLACK ROCK-NELSON
 ATTENTION: D.L.COOKE

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACT:GEO27) PAGE 1 OF 1
 FILE NO: 6-354S/PS+7
 DATE: AUGUST 11, 1986

(VALUES IN PPM)	AG	AS	CU	PB	ZN	W
L2+00S 2+25E	.8	1	20	60	260	2
L2+00S 2+50E	.8	1	19	25	142	2
L2+00S 0+25W	.8	1	26	45	139	2
L2+00S 0+50W	1.1	1	27	31	146	3
L2+00S 0+75W	.8	1	28	33	114	3
L2+00S 1+00W	.9	1	20	24	177	1
L2+00S 1+25W	.9	1	31	40	138	1
BL 2+80S	.8	1	15	30	159	1
L3+00S 0+25E	.7	1	19	26	178	1
L3+00S 0+46E	.7	1	31	40	136	3
L3+00S 0+70E	.8	1	37	103	347	5
L3+00S 1+25E	.7	1	18	29	245	1
L3+00S 1+50E	.6	1	25	36	196	3
L3+00S 1+75E	.8	1	20	30	165	2
L3+00S 2+00E	.6	1	17	39	127	3
L3+00S 2+25E	.9	1	13	27	183	1
L3+00S 2+50E	.5	1	13	21	175	1
L5+00S 0+25E	.8	1	37	34	244	2
L5+00S 0+50E	1.3	1	38	32	262	2
L5+00S 0+75E	.9	4	32	60	498	5
L5+00S 1+00E	.9	4	39	55	526	4
L5+00S 1+25E	1.1	1	39	40	597	3
L5+00S 1+50E	.8	1	35	53	421	4
L5+00S 1+75E	1.0	5	48	49	516	6
L5+00S 2+00E	1.2	1	39	23	145	4
L5+00S 0+25W	.6	1	16	28	117	2
L5+00S 0+50W	.7	1	18	30	153	3
L5+00S 0+75W	.7	1	17	27	143	1
L5+00S 1+00W	.4	1	13	26	165	2
L5+00S 1+25W	.8	1	16	29	174	2
L5+00S 1+50W	.6	1	23	29	111	1
L5+00S 1+75W	.3	1	15	39	97	3
L5+00S 2+00W	.4	1	16	33	96	4
L5+00S 2+25W	.5	1	22	24	103	1
L5+00S 2+50W	.3	1	24	32	145	2
L5+00S 2+75W	.6	1	21	26	162	1
L5+00S 3+00W	.7	1	19	30	138	2
L5+00S 3+25W	.4	1	20	29	123	3
L5+00S 3+50W	.2	1	20	30	100	2
L5+00S 3+75W	.4	1	15	23	123	3
L5+00S 4+00W	.7	1	19	16	110	1
L7+00S 0+50E	.7	1	17	44	187	3
L7+00S 0+75E	1.0	1	25	39	238	4
L7+00S 1+00E	.4	1	19	36	276	5
L7+00S 1+25E	.5	1	23	42	227	5
L7+00S 1+50E	.8	1	21	37	300	3
L7+00S 1+75E	1.4	1	55	43	288	1
L7+00S 2+00E	1.6	1	65	33	322	1
L7+00S 2+25E	1.9	1	36	31	346	1
L7+00S 2+50E	1.1	1	45	27	369	2
L7+00S 2+75E	2.6	1	55	16	333	1
L7+00S 3+25E	1.8	1	54	24	489	4
L7+00S 3+50E	1.6	1	39	38	658	5
L7+00S 0+25E	.5	1	17	28	161	1
L7+00S 0+25W	.9	1	29	46	178	3
L7+00S 0+50W	.6	1	16	24	151	1
L7+00S 0+75W	.6	1	13	31	125	1
L7+00S 1+00W	.6	1	17	25	167	1
L7+00S 1+25W	.4	1	15	18	161	1
L7+00S 1+50W	.3	1	18	33	187	1

COMPANY: D.L. COOKE
PROJECT NO: BLACK ROCK-NELSON
ATTENTION: D.L. COOKE

MIN-EN LABS ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

(ACT:6E027) PAGE 1 OF 1
FILE NO: 6-354S/P8
DATE: AUGUST 11, 1986

(604)980-5814 OR (604)988-4524 * TYPE SOIL GEOCHEM *

(VALUES IN PPM)	AG	AS	CU	PB	ZN	N
L7+00S 1+75W	.5	1	11	34	198	4
L7+00S 2+00W	.7	1	17	36	309	3
L7+00S 2+25W	.7	1	24	28	150	3
L7+00S 2+50W	.8	1	37	26	114	3
L7+00S 2+75W	.1	1	25	40	131	5
L7+00S 3+00W	.4	1	27	36	121	4
L7+00S 3+25W	.3	1	24	33	132	2
L7+00S 3+50W	.3	1	22	40	113	4
L7+00S 3+75W	.2	1	26	26	105	3
L7+00S 4+00W	.5	1	22	33	123	3
L9+00S 0+25E	1.1	1	21	59	246	3
L9+00S 0+50E	.7	1	24	39	234	1
L9+00S 0+75E	1.0	1	19	30	231	3
L9+00S 1+00E	.8	1	19	42	233	2
L9+00S 0+25W	1.2	1	21	31	230	3
L9+00S 0+50W	.3	1	14	42	83	4
L9+00S 0+75W	.7	1	16	37	169	3
L9+00S 1+00W	.7	1	30	91	240	3
L9+00S 1+25W	.5	1	23	65	220	3
L9+00S 1+50W	.3	1	20	31	178	2
L9+00S 1+75W	.5	1	21	25	116	1
L9+00S 2+00W	.8	35	21	37	124	5

COMPANY: SOURCE RESOURCES
 PROJECT NO: BLACK ROCK
 ATTENTION: D.L. COOKE

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACT:6E027) PAGE 1 OF 1
 FILE NO: 6-B355/P1+2
 * TYPE SOIL GEOCHEM * DATE: SEPT 30, 1986

(VALUES IN PPM)	AS	CS	PB	ZN	W	
LB+00N 3+00W	.5	1	29	21	70	4
LB+00N 2+75W	.6	1	42	18	98	3
LB+00N 2+50W	.3	1	30	27	76	4
LB+00N 2+25W	.4	1	22	22	116	5
LB+00N 2+00W	.9	1	32	11	80	2
LB+00N 1+75W	.5	1	24	10	62	1
LB+00N 0+90W	.7	1	37	23	92	2
LB+00N 0+75W	.7	1	21	186	205	1
LB+00N 0+50W	.6	1	20	22	143	3
LB+00N 0+25W	.7	1	23	21	91	2
LB+00N 0+00	.4	1	21	13	89	2
LB+00N 0+25E	.6	1	16	5	75	2
LB+00N 0+50E	.7	1	25	6	60	1
LB+00N 1+05E	.7	1	18	27	77	4
LB+00N 1+50E	.6	1	15	51	231	4
LB+00N 1+75E	.2	1	12	9	286	1
LB+00N 2+00E	.7	1	19	7	114	1
LB+00N 2+25E	.7	1	18	18	164	2
LB+00N 2+50E	.6	1	18	89	338	3
LB+00N 2+75E	1.1	1	30	30	102	1
LB+00N 3+00E	.3	1	17	11	85	3
LB+00N 3+25E	.6	1	19	12	86	3
LB+00N 3+50E	1.2	1	36	22	622	4
LB+00N 3+75E	.7	1	29	30	422	3
LB+00N 4+00E	.5	1	17	11	167	2
L9+00N 3+00W	.7	1	34	13	74	2
L9+00N 2+75W	1.2	1	48	21	80	2
L9+00N 2+50W	.6	1	33	16	89	1
L9+00N 2+25W	.4	1	16	16	56	3
L9+00N 2+00W	.7	1	29	24	78	4
L9+00N 1+75W	.6	1	31	14	122	3
L9+00N 1+50W	.4	1	98	10	80	4
L9+00N 1+25W	.4	1	28	326	126	4
L9+00N 1+00W	.9	1	40	16	75	2
L9+00N 0+75W	.7	1	24	16	79	2
L9+00N 0+50E	.3	1	19	20	132	3
L9+00N 0+75E	.5	1	23	8	83	3
L9+00N 1+00E	.5	1	31	20	57	2
L9+00N 1+25E	.5	1	20	39	127	4
L9+00N 1+50E	.4	1	23	16	115	4
L9+00N 1+75E	.8	1	23	10	67	4
L9+00N 2+00E	.6	1	20	16	214	3
L9+00N 2+25E	.6	1	19	24	130	3
L9+00N 2+50E	.3	1	38	30	83	4
L9+00N 2+75E	.9	1	33	17	68	4
L9+00N 3+00E	.7	1	20	29	133	3
L9+00N 3+25E	.5	1	22	26	177	2
L10+00N 3+00W	.6	1	21	7	77	1
L10+00N 2+75W	.5	1	23	23	107	2
L10+00N 2+50W	.8	1	37	9	48	1
L10+00N 2+25W	.5	1	28	20	36	4
L10+00N 2+00W	.6	1	24	22	124	3
L10+00N 1+75W	1.0	1	24	16	219	1
L10+00N 1+50W	1.2	1	111	6	45	2
L10+00N 1+25W	.5	1	22	8	69	3
L10+00N 1+00W	.7	1	32	25	65	3
L10+00N 0+75W	1.0	1	39	5	52	1
L10+00N 0+50W	.8	1	25	14	74	3
L10+00N 0+25W	1.0	1	24	20	49	4
L10+00N 0+00	.8	1	34	30	73	1

(VALUES IN PPM)	AG	AS	CU	PB	ZN	H
L10+00N 0+25E	.6	1	26	21	63	3
L10+00N 0+50E	1.2	1	41	22	60	3
L10+00N 0+75E	.9	1	19	22	65	2
L10+00N 1+00E	.6	1	26	30	81	3
L10+00N 1+25E	1.2	1	28	32	126	1
L10+00N 1+50E	.7	1	19	31	154	2
L10+00N 1+75E	1.0	1	31	41	116	2
L10+00N 2+00E	1.1	1	23	20	89	1
L10+00N 2+25E	.7	1	15	16	137	1
L10+00N 2+50E	1.1	1	34	33	145	2
L10+00N 2+75E	.7	1	17	22	172	2
L10+00N 3+00E	.9	1	28	29	121	2
L10+00N 3+25E	.8	1	24	48	120	5
L10+00N 3+50E	1.0	1	54	34	218	5
L10+00N 3+75E	1.0	1	28	14	509	3
L10+00N 4+00E	1.0	1	23	17	358	2
L11+00N 1+00W	.8	1	18	16	246	1
L11+00N 0+75W	.9	1	22	28	224	2
L11+00N 0+50W	.9	1	37	35	182	2
L11+00N 0+25W	.9	42	19	7	113	1
L11+00N 0+00	1.0	1	23	19	137	1
L11+00N 0+25E	.8	1	24	13	106	1
L11+00N 0+50E	1.0	1	24	12	60	1
L11+00N 0+75E	1.5	1	48	22	94	1
L11+00N 1+00E	1.1	1	43	17	102	2
L11+00N 1+25E	1.1	1	44	23	87	3
L11+00N 1+50E	1.1	1	32	16	153	2
L11+00N 1+75E	.9	1	18	15	103	2
L11+00N 2+00E	.8	1	14	14	87	3
L11+00N 2+25E	.6	1	13	29	180	2
L11+00N 3+00E	.7	1	32	49	147	5
L11+00N 3+25E	1.6	1	47	32	506	3
L11+00N 3+50E	1.6	1	38	15	521	3
L11+00N 3+75E	1.6	1	41	16	535	3
L11+00N 4+00E	1.3	1	31	15	520	3
L11+00N 4+25E	1.6	1	29	21	434	2
L11+00N 4+50E	2.2	1	30	7	409	2
L11+00N 4+75E	1.5	1	30	19	481	3
L11+00N 5+00E	1.5	1	56	40	435	5
L12+00N 1+75W	.8	1	21	66	398	5
L12+00N 1+50W	1.1	1	21	39	304	4
L12+00N 1+25W	.9	1	20	37	196	5
L12+00N 1+00W	.9	1	18	25	169	4
L12+00N 0+00	1.3	1	21	37	229	4
L12+00N 0+25E	1.3	1	20	27	231	4
L12+00N 0+50E	1.0	1	23	96	454	5
L12+00N 0+75E	1.2	1	20	29	179	3
L12+00N 1+00E	.6	1	18	23	105	4
L12+00N 1+25E	1.1	1	24	23	111	3
L12+00N 1+50E	1.3	1	25	26	143	4
L12+00N 1+75E	1.0	1	16	19	199	2
L12+00N 2+00E	1.4	1	18	16	152	3
L12+00N 2+20E	.8	1	27	27	337	5
L12+00N 3+50E	1.3	1	93	51	432	6
L12+00N 3+75E	2.0	1	37	25	406	3
L12+00N 4+00E	1.8	1	23	11	326	2
L12+00N 4+25E	1.2	1	28	28	423	4
L12+00N 4+50E	1.6	1	23	19	397	3
L12+00N 4+75E	1.3	1	43	21	391	4
L12+00N 5+00E	1.6	1	35	17	483	4

(VALUES IN PPM)	AG	AS	CU	PR	ZN	N
L16+00N 1+00E	.7	1	41	65	258	6
L16+00N 1+25E	.6	1	34	105	437	6
L16+00N 1+50E	.5	1	21	47	311	4
L16+00N 1+75E	.7	1	23	77	449	5
L16+00N 1+95E	.5	1	19	69	459	5
L16+00N 2+25E	.6	1	19	70	432	4
L16+00N 2+50E	.8	1	26	35	250	4
L16+00N 2+75E	.6	1	26	49	423	4
L16+00N 3+00E	.8	1	27	43	283	5
L16+00N 3+20E	.7	1	27	73	433	5
L16+00N 3+50E	.9	1	30	67	390	5
L16+00N 3+75E	.8	1	31	156	837	5
L16+00N 3+95E	.6	1	20	41	193	5
L16+00N 4+50E	1.5	1	37	119	868	6
L16+00N 5+00E	.9	1	25	59	595	5
L17+00N 2+00E	1.0	1	20	68	499	4
L17+00N 2+25E	.8	1	20	84	515	4
L17+00N 2+50E	.7	1	18	69	522	3
L17+00N 2+75E	1.0	1	23	79	738	6
L17+00N 3+00E	.9	1	30	85	567	5
L17+00N 3+25E	1.1	1	28	63	524	4
L17+00N 3+50E	.9	1	27	68	409	4
L17+00N 3+75E	.8	1	26	88	547	5
L17+00N 4+00E	1.1	1	21	66	697	3
L17+00N 4+25E	1.0	1	17	70	815	2
L17+00N 4+50E	1.0	1	22	135	1099	5
L17+00N 4+75E	1.2	1	30	276	1229	6
L17+00N 5+00E	.9	1	20	104	665	4
L17+00N 5+25E	.9	1	18	297	1044	5
L17+00N 5+50E	.8	1	21	149	562	5

PROJECT NO: BLACK ROCK

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 6-8355/P6+7

ATTENTION: D.L. COOKE

(604)980-5814 OR (604)988-4524

* TYPE SOIL GEOCHEM * DATE: SEPT 30, 1986

(VALUES IN PPM)	AS	AS	CU	PR	ZN	W	AU-PFB
L17+00N 5+80E	.8	1	20	191	1545	4	
L17+00N 6+00E	.7	1	20	137	1294	5	
L17+00N 6+25E	1.0	1	23	182	1335	5	
L17+00N 6+50E	.6	1	22	103	765	5	
L17+00N 6+70E	1.0	1	26	110	699	5	
L17+00N 7+00E	.8	1	24	87	555	5	
L17+00N 7+25E	.7	1	23	104	673	6	
L17+00N 7+50E	.8	1	24	138	897	5	
L17+00N 7+75E	.7	1	23	146	775	5	
L17+00N 8+00E	.8	1	29	131	870	4	
L18+00N 2+00E	.8	1	18	160	859	6	10
L18+00N 2+25E	.6	1	20	89	551	5	5
L18+00N 2+50E	.6	1	18	66	357	4	5
L18+00N 2+75E	.8	1	23	97	645	4	5
L18+00N 3+00E	.9	1	27	64	381	5	10
L18+00N 3+25E	1.0	1	40	44	169	5	10
L18+00N 3+50E	.8	1	26	29	281	3	5
L18+00N 3+75E	.8	1	25	43	340	4	5
L18+00N 4+00E	1.1	1	22	155	830	5	5
L18+00N 4+25E	.9	1	24	42	263	4	5
L18+00N 4+50E	.8	1	24	39	240	3	5
L18+00N 4+75E	.9	1	37	58	344	5	10
L18+00N 5+00E	.9	1	21	115	666	5	5
L18+00N 5+25E	1.2	1	26	187	710	3	
L18+00N 5+50E	1.3	1	25	443	2185	6	
L18+00N 5+75E	1.3	1	22	468	2670	6	
L18+00N 6+00E	1.8	1	24	465	2310	6	
L18+00N 6+25E	1.2	1	29	381	1944	5	
L18+00N 6+50E	1.0	1	22	260	1288	5	
L18+00N 6+75E	.8	1	26	94	572	6	
L18+00N 7+50E	.6	1	19	117	395	6	
L18+00N 7+70E	.9	1	21	96	359	5	
L18+00N 7+90E	.8	1	30	101	647	3	
L18+00N 8+25E	.8	1	17	87	1593	6	
L18+00N 8+50E	1.0	1	20	80	1613	6	
L18+00N 8+75E	1.3	1	27	69	528	4	
L18+00N 9+00E	1.1	1	21	123	585	8	
L19+00N 2+00E	.7	1	29	148	599	5	15
L19+00N 2+25E	.6	1	21	86	339	5	5
L19+00N 2+50E	.7	1	24	25	264	4	10
L19+00N 2+75E	1.1	1	61	16	231	3	5
L19+00N 3+00E	1.1	1	49	29	112	4	5
L19+00N 3+25E	.8	1	42	26	54	4	5
L19+00N 3+50E	1.0	1	40	35	222	4	5
L19+00N 3+75E	1.0	1	40	52	498	5	5
L19+00N 4+00E	1.8	10	29	267	2600	6	35
L19+00N 4+25E	1.0	1	31	49	220	4	10
L19+00N 4+50E	1.0	1	32	47	241	4	5
L19+00N 4+75E	.9	1	34	62	211	5	15
L19+00N 5+00E	.7	1	27	78	361	5	5
L19+00N 5+25E	.9	1	32	63	223	4	
L19+00N 5+50E	2.2	1	22	1183	4531	7	
L19+00N 5+75E	2.0	1	15	2199	5427	6	
L19+00N 6+00E	6.7	1	24	3193	6287	9	
L19+00N 6+50E	3.0	1	24	1527	6737	7	
L19+00N 6+75E	.9	1	25	75	176	5	
L19+00N 7+00E	1.1	1	19	219	698	6	
L19+00N 7+25E	1.2	1	26	294	1043	5	
L19+00N 7+40E	1.0	1	18	174	575	5	
L19+00N 8+00E	1.7	2	17	385	11481	12	

(VALUES IN PPM)	AG	AS	CU	FE	ZN	H	AU-PPB
L19+00N 8+25E	1.6	1	16	204	10108	13	
L19+00N 8+50E	1.2	1	15	99	1410	8	
L19+00N 8+75E	.9	1	10	50	947	9	
L19+00N 9+00E	.8	1	15	72	701	7	
L19+00N 9+25E	1.3	1	23	94	2281	10	
L19+00N 9+50E	1.5	1	15	262	3758	8	
L19+00N 9+75E	.9	1	14	123	3053	6	
L19+00N 10+00E	1.4	1	26	124	5201	10	
L20+00N 1+90E	.7	1	28	100	173	4	5
L20+00N 2+25E	.8	1	58	42	87	4	5
L20+00N 2+50E	1.3	8	67	112	414	4	5
L20+00N 2+75E	1.1	1	44	86	348	4	5
L20+00N 3+00E	1.2	5	98	50	182	5	5
L20+00N 3+25E	1.7	8	79	59	335	5	10
L20+00N 3+50E	1.0	1	32	140	1675	5	5
L20+00N 3+75E	.9	10	39	76	243	6	15
L20+00N 4+00E	1.1	1	29	67	92	6	10
L20+00N 4+25E	1.1	10	29	123	981	6	5
L20+00N 4+50E	1.3	17	34	107	474	6	5
L20+00N 4+75E	.9	9	41	57	138	6	5
L20+00N 5+00E	1.0	1	26	84	367	5	5
L20+00N 5+25E	1.0	1	30	73	258	3	
L20+00N 5+50E	1.0	4	34	332	1860	6	
L20+00N 5+75E	1.3	1	37	110	513	4	
L20+00N 5+90E	1.1	1	31	194	765	3	
L20+00N 6+25E	1.2	1	25	395	1888	4	
L20+00N 6+50E	1.3	1	23	394	1916	5	
L20+00N 6+75E	.8	1	25	107	407	6	
L20+00N 7+25E	1.2	1	32	218	1001	5	
L20+00N 7+50E	.8	1	19	213	936	5	
L20+00N 7+75E	1.5	1	29	183	1618	5	
L20+00N 8+00E	1.3	1	28	161	1450	5	
L20+00N 8+25E	1.4	1	21	118	955	3	
L20+00N 8+50E	1.1	1	25	206	1770	4	
L20+00N 8+75E	1.2	1	24	147	1336	3	
L20+00N 9+00E	.9	1	24	131	1226	4	
L20+00N 9+25E	1.4	1	21	108	702	5	
L20+00N 9+50E	1.3	1	28	162	727	3	
L20+00N 9+75E	1.4	1	17	165	3234	7	
L20+00N 10+00E	1.8	1	23	234	824	5	
L21+00N 3+00E	2.2	7	48	177	653	7	10
L21+00N 3+25E	2.3	1	39	50	265	3	5
L21+00N 3+50E	1.9	15	46	148	599	5	10
L21+00N 3+75E	2.2	47	66	582	2192	6	5
L21+00N 4+00E	2.2	3	34	80	265	5	15
L21+00N 4+25E	2.9	1	20	132	1595	5	5
L21+00N 4+50E	1.9	1	28	46	427	4	10
L21+00N 4+75E	2.2	7	45	76	160	6	5
L21+00N 5+00E	1.6	1	26	77	370	4	5
L21+00N 5+25E	1.1	1	21	90	408	2	
L21+00N 5+50E	1.0	1	42	102	256	5	
L21+00N 5+75E	1.6	1	36	206	618	5	
L21+00N 6+00E	1.6	1	34	402	1254	3	
L21+00N 6+25E	1.3	1	30	303	1283	4	
L21+00N 6+50E	1.0	1	22	112	1656	5	
L21+00N 6+75E	1.5	1	21	146	1988	5	
L21+00N 7+00E	1.7	1	27	102	510	3	
L21+00N 7+30E	1.2	1	26	150	584	4	
L21+00N 7+50E	1.9	1	32	216	793	5	
L21+00N 7+75E	1.6	1	30	160	610	4	

PROJECT NO: BLACK ROCK

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 6-8355/P10+11

ATTENTION: D.L. COOKE

(604) 980-5814 OR (604) 988-4524

* TYPE SOIL GEOCHEM * DATE: SEPT 30, 1986

(VALUES IN PPM)	AG	AS	CU	PB	ZN	W	AU-PPB
L21+00N 8+00E	1.0	1	24	190	1128	5	
L21+00N 8+25E	1.0	1	24	247	1491	5	
L21+00N 8+50E	.9	1	26	211	1112	4	
L21+00N 8+75E	.6	1	23	204	982	4	
L21+00N 9+00E	.9	1	24	94	767	3	
L21+00N 9+25E	1.2	3	17	112	1072	7	
L21+00N 9+50E	1.0	1	25	188	876	6	
L21+00N 10+00E	1.3	1	20	142	720	8	
L22+00N 3+00E	1.7	31	31	179	651	4	10
L22+00N 3+25E	1.7	1	34	292	1101	5	10
L22+00N 3+50E	1.0	1	19	139	709	3	5
L22+00N 3+75E	1.1	1	29	75	183	4	5
L22+00N 4+00E	.6	1	17	55	229	4	5
L22+00N 4+25E	.9	1	19	279	577	5	5
L22+00N 4+50E	1.0	1	21	86	441	4	5
L22+00N 4+75E	1.4	2	27	203	476	5	10
L22+00N 5+00E	1.0	1	30	181	576	5	5
L22+00N 5+25E	1.1	1	21	194	1090	5	
L22+00N 5+50E	1.5	1	23	201	1208	4	
L22+00N 5+75E	3.5	6	33	1522	3913	8	
L22+00N 6+00E	3.6	9	33	1542	3907	7	
L22+00N 6+25E	3.6	6	33	1449	4065	7	
L22+00N 6+50E	4.1	5	31	1661	4164	8	
L22+00N 6+65E	2.8	1	28	1086	3588	11	
L22+00N 7+00E	2.1	1	38	683	3375	7	
L22+00N 7+25E	.9	1	19	124	444	5	
L22+00N 7+50E	1.2	1	22	245	665	4	
L22+00N 7+75E	.9	1	19	229	745	5	
L22+00N 8+00E	1.1	1	23	161	587	5	
L22+00N 8+20E	1.4	9	20	195	2020	7	
L22+00N 8+50E	1.3	1	28	297	2614	5	
L22+00N 8+75E	.8	1	17	169	809	4	
L22+00N 9+00W	.7	1	18	104	558	4	
L22+00N 9+25E	1.1	1	25	124	629	6	
L22+00N 9+50W	.8	3	21	113	508	6	
L22+00N 9+75EW	1.0	1	18	117	822	6	
L22+00N 10+00E	.8	1	25	158	748	5	

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PI (604)960-5814 OR (604)988-4524

TELEX:VIA USA 7601067 UC

Certificate of GEOCHEM

Company:SOURCE REOURCES
Project:BLACK ROCK
Attention:D.L.COOKE

File:6-835
Date:SEPT 27/86
Type:ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU PPB
CC86-1	40.0	6800
BR86-01	0.6	25
BR86-03	0.5	50
BR86-04	1.2	15
BR86-05	0.3	30
BR86-06	1.8	20
BR86-11	0.5	35
BR86-15	1.7	25
BR86-16	7.2	70
BR86-17	0.2	50
BR86-18	9.8	190
BR86-18A	23.6	330
BR86-19	10.2	160
BR86-19A	1.6	50
BR86-20	2.7	20
BR86-21	0.3	10
BR86-22	2.8	15
BR86-23	1.2	25

Certified by

MIN-EN LABORATORIES LTD.

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

TE: (604)980-5814 OR (604)988-4524

TELEX: VIA USA 7601067 UC

Certificate of ASSAY

Company: SOURCE RESOURCES
Project: BLACK ROCK
Attention: D.L. COOKE

File: 6-835
Date: SEPT 30/86
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	CU %	PB %	ZN %	GA PPM	GE PPM
BR86-18	.035	.62	2.35	2	187
BR86-18A	.016	1.48	5.78	1	42
BR86-22	.006	.02	4.45		
BR86-23	.012	.01	.08		

Certified by



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Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 990-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

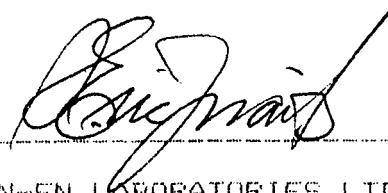
Company: SOURCE RESOURCES
Project: BLACK ROCK
Attention: D.L. COOKE

File: 6-715R
Date: SEPT 27/86
Type: PULP GEOCHEM

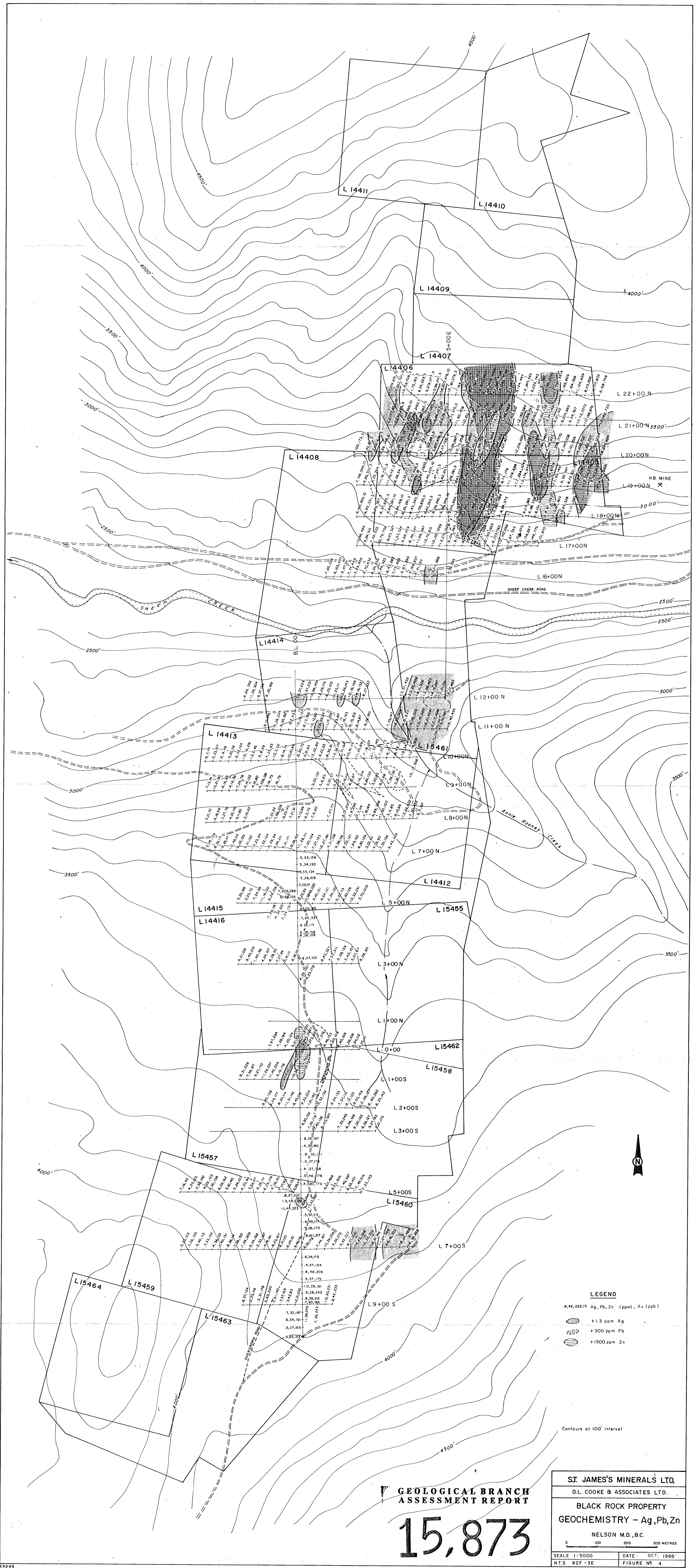
We hereby certify the following results for samples submitted.

Sample Number	PB %	ZN %
BR86-08	13.40	9.25
BR86-09	0.12	14.90
BR86-12	4.25	7.38

Certified by



MIN-EN LABORATORIES LTD.



LEGEND

8,42,233/5 Ag, Pb, Zn (ppm), Au (ppb)

○ +1.3 ppm Ag

□ +300 ppm Pb

⊗ +1500 ppm Zn

Contours of 100' interval

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,873

ST. JAMES'S MINERALS LTD.	
D.L. COOKE & ASSOCIATES LTD.	
BLACK ROCK PROPERTY	
GEOCHEMISTRY - Ag, Pb, Zn	
NELSON M.D., B.C.	
0 100 200 300 METRES	
SCALE 1:5000	DATE: OCT. 1986
N.T.S. 82F-3E	FIGURE NO. 4