

LOG NO: 0304	RD.
ACTION:	
FILE NO:	

HEAVY MINERALS GEOCHEMICAL ASSESSMENT REPORT

On The
APEX GROUP CLAIMS

SUB-RECORDER
RECEIVED
MAR 2 - 1988
M.R. # _____ \$ _____
VANCOUVER, B.C.

OMINECA M.D.
93L/8W

Latitude 54 26'N

Longitude 126 26'W

for Owner

Baril Developments Limited

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,154

Vancouver, B.C.
December, 1987

S. Zastavnikovich
Geochemist/Consultant

TABLE OF CONTENTS

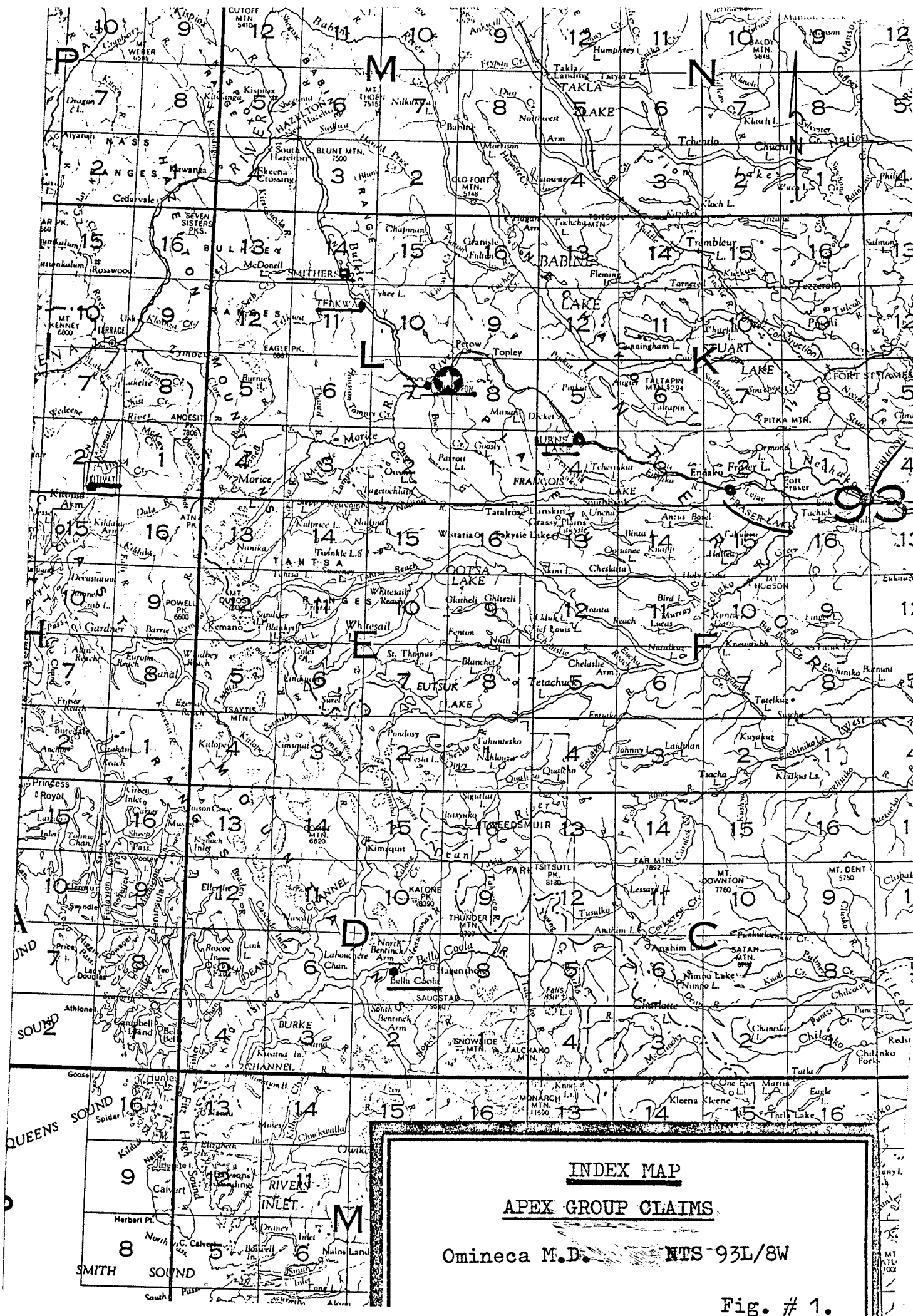
	Page
1. Index Map (Fig. 1)	1
2. Claim Map (Fig. 2)	2
3. Introduction & Description	3
4. General Geology & Physiography.....	4
5. Geochemical Survey	5
Total -80 Mesh Geochemistry	6
Heavy Minerals Soil Geochemistry	7
6. Conclusions	9
7. Statement of Qualifications	10

APPENDICES

-
- Appendix I. Statement of Expenses
 - Appendix II. Analytical Procedure & Heavy Minerals Processing
 - Appendix III. Rock Sample Notes
 - Appendix IV. Analytical Results

MAPS

-
- 1. Scale 1:6,250 Geochemical Map, with topography
and claim outlines, sample location numbers
and analytical results for Apex Group Claims
(Fig. 3)in pocket



INDEX MAP
APEX GROUP CLAIMS

Omineca M.D. NTS 93L/8W

Fig. # 1.

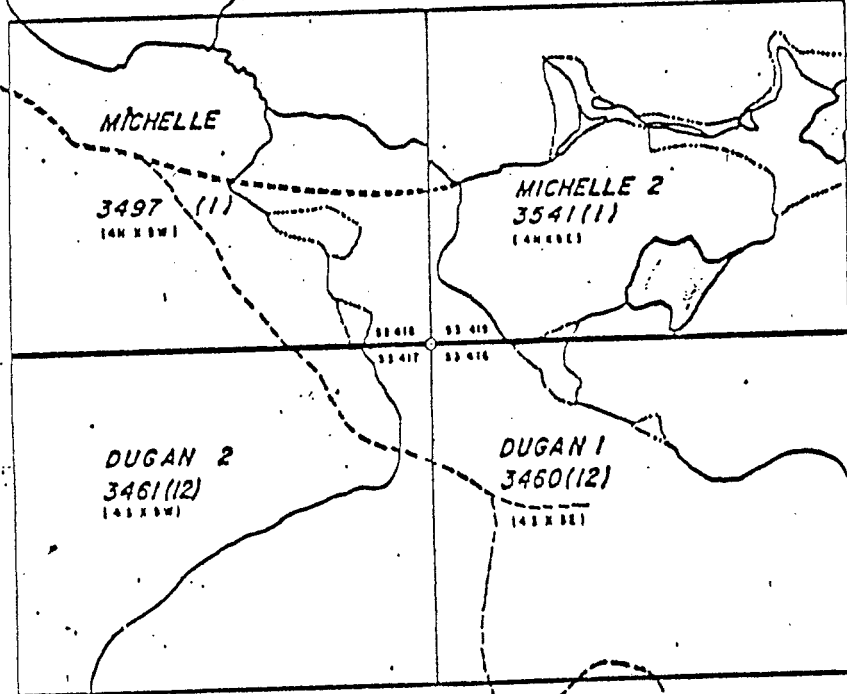
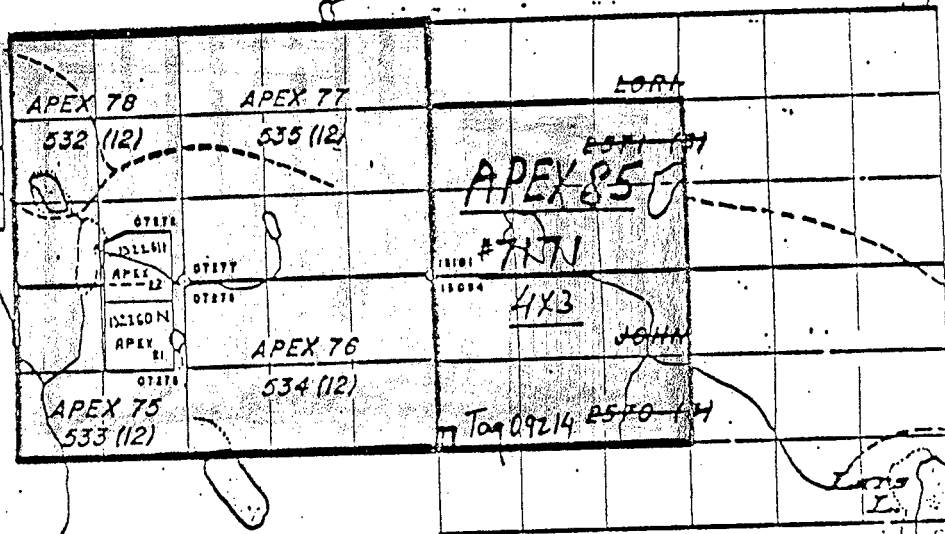
NTS 931/RW
1:50000

Bulk

N
W
C
H
A
K
O

Aitken

Cr.



HEADING 7 3539(1)	HEADING 7 3540(1)
HEADING 5 3537(1)	HEADING 6 3538(1)
HEADING 3 3535(1)	HEADING 4 3536(1)
HEADING 1 3533(1)	HEADING 2 3534(1)

CHINA NOSE
MTN.

Heading

CLAIM MAP
APEX GROUP CLAIMS
Omnecca N.D. Fig. #2.

GEOCHEMICAL ASSESSMENT REPORT ON THE APEX CLAIM GROUP

Omineca M.D., Central B.C.

INTRODUCTION & DESCRIPTION

The APEX group of mineral claims, containing 39 units and owned by Baril Developments Ltd., consists of the Apex75 (4 units), Apex76 (6 units), Apex77 (9 units), Apex78 (6 units), Apex21+22 (1 unit each), and Apex85 (12 units). The claim group is located 13 km northeast of Houston, in the Omineca Mining Division, N.T.S. 93L/8W.

The Apex 85 claim was staked in July 1985, while the rest of the claims in the group were staked in the early to mid seventies, at which time some prospecting, mapping, soil sampling and magnetometer work was done (see Assesment Report #05288 Nov'74, by J. McAndrew). In 1977 the Apex claims were optioned by Conwest Exploration Co. Ltd., who conducted geophysical Induced Polarization and Resistivity surveys on the property (Assmnt.Rep. #6427). A central resistivity high was identified trending north-south through the middle of claims, with attendant I.P. probable-category anomalies on its flanks.

Following a successful heavy minerals survey on the property last Fall (Assessment Report, Dec.'86), in November the writer collected 77 large 2kg samples of the B-horizon soils for heavy minerals analysis along several extensions of the previously sampled line, shown on the sample location map Fig. 3, in order to delineate the existing, and search for new, anomalies. Additional 32 rock samples of siliceous, sulphide-bearing, or altered outcrop and float rocks found on the property were collected, and likewise processed for heavy minerals. For comparison total -80 mesh fr. was also analyzed.

Access to the claim group is from Houston via Hwy 16 for 8km east to Knockholt landing, then 6km south on Atkiens Ck road, and 4km east on the old homestead roads to the western edge of the property. An old east-west logging trail traverses through the middle of the property.

GENERAL GEOLOGY & PHYSIOGRAPHY

According to the most recent geological mapping that includes the claim area, done at a scale of 1:125,000 by B.N. Church of the BCDM, "Geology of the Buck Creek Area", Map #11-1973, the Apex group claims are underlain by the early and middle Mesozoic Hazelton Group volcanic rocks, ranging from basic to intermediate to acid lavas and pyroclastics. On the map, a pair of northeast and northwest lineaments intersect in the extreme southwestern corner of the property. Surface prospecting located a small outcrop of gabbro approximately in the middle of the Apex76 claim.

The mesozoic volcanics on the property were mapped as similar to the volcanics hosting the Equity Silver Mine, located 30km south-east. The gabbro intrusive present on Apex claims may well belong to the Eocene Goosly Lake intrusions, as mapped by Church at the Equity Mine property.

The Apex group claims lie on the south slope of a 1,265m high hill south of Gilmore Lake, and almost reach the Aitken Creek valley at the 800m elevation. The total relief on the property is 300m, trending between the cliffy prominences in the north to the beaver-dammed boggy swamps in the south. The area in between is forested with pine and fir trees, and mantled in thick glacial cover.

GEOCHEMICAL SURVEY

Large 2kg-size samples of the B-horizon soils were collected by the writer this Fall on the Apex property at 30 - 50 cm depths using a grubhoe and a shovel in order to obtain sufficient material for processing by heavy liquids for Heavy Minerals analysis. The 77 soil samples were taken just NE of Sulfur Lk. on Apex 78 claim at 20m intervals along three extensions radiating from the northern end of a previously sampled line as shown in Fig.3, where a gold, with supporting zinc, anomaly was located in the H.M. fraction (Assmnt.Rep., Dec.'86). The 32 rocks were collected from the soil lines to beyond the barite showing, and near the common LCP, as presented on sample location map, Fig.3, in pocket.

The -80 Mesh material from the large soil samples was processed at the Min-En Laboratory in N.Vancouver by heavy liquid separation methods to obtain the -80 Mesh heavy minerals. The -80 Mesh H.M. fraction was analyzed for 30 trace and minor elements by ICP, plus mercury, total barium, and geochemical fire-gold, using standard geochemical methods described together with the heavy minerals processing procedure in Appendix II at the back of the report. The regular -80 Mesh fraction was analyzed as well for identical elements to provide comparison to the H.M. values, and continuity from the past year's soil sampling (Assessment Report, Sept.'86). The heavy minerals results are directly inscribed on the geochemical 1:6,250 scale sample location map, Fig. 3 in pocket, as well as being enclosed with the -80 mesh values at the back of the report.

At strongly anomalous sites the ICP multi-element analytical results indicate a high degree of correlation between the total -80 Mesh and the heavy mineral fractions. At sites of subtle element enrichment, however, there is much less correlation in analytical values. The only significant gold values in the total -80 mesh fr., soil #040N, 210 ppb Au, rock #660WR, 81 ppb Au, which correspond to the highest gold values in the H.M. fraction with 1,720 ppb Au and 745 ppb Au respectively. The H.M. fraction contains additional lesser gold anomalies in the soils NE of Sulfur Lake and the rhyolite bedrock samples SW of the common LCP, as plotted in the large scale sample location map, 1:6,250, Fig. 3, in pocket.

Total -80 Mesh Soil Geochemistry -

In the soils, no other anomalous gold values are present in the total -80 mesh fraction, as the analytical results, Appendix IV, indicate. The most likely significant trace element values are at 420NW, 2.2 ppm Ag; at 180C and 200C with 2.3 and 2.7 ppm Ag; at 620NW, 48 ppm Ni, 121 ppm Cr; at 480-52-NW, 178 ppm Zn, 250 ppb Hg, 2,450 ppm total Ba; and from 020N to 200N with 264 ppm Zn to 395 ppm Zn. General trace element depletion in samples #100NW and 420NW, may indicate leaching and/or silicification in the bedrock under the thick glacial cover in this area.

In the rock samples, the strongest trace element values in the total -80 mesh fraction are associated with the gold-bearing quartz-carbonate sample #660WR, having 81 ppb Au, 13.9 ppm Ag, 98 ppm As, 4.7 ppm Cd, 1,849 ppm Cu, 89 ppm Pb,

107 ppm Sb, and 7,500 ppb Hg. Some of the barite vein samples, JB23-JB27, Fig.3, carry highly anomalous values of up to 26.0 ppm Cd, 384 ppm Cu, 761 ppm Pb, 1,897 ppm Zn, and 4,875 ppb Hg, corresponding to the amount of sulphides present, as listed in the Rock Sample Notes, Appendix III.

Heavy Minerals Geochemistry-

In the soils, the H.M. fraction is notably anomalous in gold in addition to the 1,720 ppb Au at site 040N, at sample sites 060N, 102 ppb Au; 120NW, 320 ppb Au; 500NW, 100 ppb Au; 660NW, 125 ppb Au; 180C, 120 ppb Au; 320C, 300 ppb Au; 780W, 110 ppb Au; and 840W, 120 ppb Au. These, and lesser gold anomalies above 35 ppb Au are presented in Fig.3. As the analytical values for the H.M. fraction in Fig.3 and Appendix IV indicate, most of the anomalous gold values, and particularly the stronger ones, are associated with anomalous trace element values in the H.M. fraction in the same, or an adjacent sample, indicating the source of gold values to be bedrock, rather than placer, related in the claims area.

Negative anomalies in majority of the trace elements are present in the H.M. fraction at sites 020N, 100NW, 420NW, 120C, and 200C. This may be due to altered and/or silicified bedrock under the thick overburden in the sampled area, which is significant for gold exploration, particularly when associated with highly anomalous silver values such as 28.2 ppm Ag at 100NW, 8.9 ppm Ag at 420NW, and 18.6 ppm Ag at 200C. A multi trace element anomaly in the H.M. fraction centered on soil sample 620NW, carrying 43 ppm As, 136 ppm Ni, 452 ppm Zn, 464 ppm Cr,

and next to 610 ppb Hg, may be indicative of a mineralized structure and needs detailed sampling for confirmation.

As the H.M. analytical results, Fig.3, and the Rock Sample Notes, Appendix III, indicate, mildly anomalous gold values of up to 80 ppb Au in the JB numbered rocks are associated with silification and pyrite content. By far the highest rock sample gold values were obtained from siliceous veinlets in rhyolitic outcrops #660WR and #900WR of 745 ppb Au and 400 ppb Au respectively in the area SW from the common LCP, Fig.3. The highest gold values in the H.M. fraction are associated with 152.3 ppm Ag, 1,588 ppm As, 72.6 ppm Cd, 33,508 ppm Cu, 776 ppm Pb, 2,342 ppm Sb, 2,213 ppm Zn, 133 ppm Sn, 112,500 ppb Hg, and 30,000 ppm Ba total, all being highly anomalous and dictating the need for follow up investigations.

CONCLUSIONS

1. The presence of numerous elevated gold values in the H.M. fraction analytical results in rocks and soils sampled, and their absence in the total -80 Mesh fraction, dictates the need for heavy minerals analysis in exploration for gold on the Apex property.

2. The previously found strong gold anomaly at 0.0S has been confirmed with 1,720 ppb Au in sample #040N in the H.M. fraction which, when combined with a negative multi trace element anomaly in #020N and previously in #S 0.60S-1.00S, may indicate gold-bearing altered and/or silicified bedrock under the thick overburden cover. Similar geochemical relationships exist at sites 100NW, 420NW, 120C, and 200C in the same area.

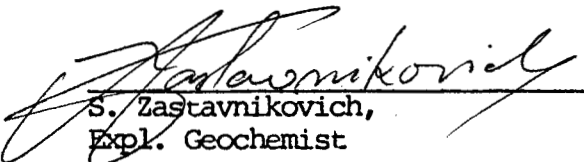
3. Siliceous rhyolites SW from the common LCP are highly anomalous in multi trace elements and gold, as exemplified in rock sample #660WR, carrying 745 ppb Au and 152.3 ppm Ag in the H.M. fraction.

STATEMENT OF QUALIFICATIONS

I.- Sam Zastavnikovich, do hereby certify that:

1. I am a graduate of the University of Alberta with the Degree of B. Ed. in Physical Sciences, 1969.
2. I have been a practicing exploration geochemist with Falconbridge Ltd. of Toronto and Vancouver for thirteen continuous years as:

1969-1975: Field geochemist, international.
1975-1979: Project geologist-geochemist, B. C.
1979-1982: Exploration geochemist, worldwide, where I was engaged in all aspects of geochemical exploration, including research and development of improved sampling techniques, and advanced geochemical interpretation, as well as the writing of final, budget, and assessment reports.
3. I am a voting member of the Association of Exploration Geochemists.
4. I am a consulting geochemist with offices at 5063 - 56th. St., Delta, B. C.


S. Zastavnikovich,
Expl. Geochemist

APPENDIX I.

STATEMENT OF EXPENDITURES

(Apex Group Claims)

Geochemistry

Salaries-	S. Zastavnikovich, geochemist Nov. 3-5, 3 days @ \$250/day	750.00
Food-	3 man-days @ \$25/day	75.00
Travel-	Motel, 2 nights	78.84
	Vehicle, 4x4 truck, 3 days @ \$40/day	120.00
	Gas	109.83
Field Supplies-	Sample bags, toprofil, flagging,	52.75
Sample Delivery-		30.00

		1,216.42

Analysis

109 rocks & soils, Heavy Liquid processing		
@ 25.00/sample		2,725.00
77 soils for 30 element ICP, Hg, Au, total Ba		
@ 21.75x2, + .90 prep.		3,418.80
32 rocks for 30 el. ICP, Hg, Au fire, Ba tot.,		
@21.75x2, plus 3.00 prep.		1,488.00

		7,631.80

Total Expenditures	8,848.22

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

ASSESSMENT REPORT FOR:

HEAVY MINERAL SAMPLING AND CONCENTRATIONS

A large sample is collected from stream sediments or soils big enough to yield a minimum of 0.5 kg of the desired minus fraction. After sieving through any of the sieve mesh sizes they are adapted for the survey. After sieving the samples, the minus fraction is grinded to -80 mesh.

Then 0.4 kg of sample is weighed into a suitable centrifuge containers. The prepared concentrations of liquids are added to obtain a 3.1 specific gravity flotation.

The heavy fractions are then washed cleaned and dried. After drying the samples they are separated. The sink float Heavy Minerals are separated into Magnetic and Non Magnetic fractions and both fractions are weighed. The percent of the Magnetic and non Magnetic fractions are calculated and reported with the analytical data.

The analysis are than carried out in the usual analytical manner by I.C.P. or A.A. method.

APPENDIX II

*MIN-EN Laboratories Ltd.**Specialists in Mineral Environments*Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2FIRE GOLD GEOCHEMICAL ANALYSIS BY MIN-EN
LABORATORIES LTD.

Geochemical samples for Fire Gold processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

A suitable sample weight 15.00 or 30.00 grams are fire assay preconcentrated.

After pretreatments the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

With a set of suitable standard solution gold is analysed by Atomic Absorption instruments. The obtained detection limit is 1 ppb.

APPENDIX II

Analytical Procedure - The samples were analyzed by Min-En Laboratories Ltd. of 705 West 15th St., N.Vanc, as follows:

The stream sediments were oven-dried in their original water-resistant kraft paper bags at 95°C and screened to obtain the minus 80 mesh fraction for analysis. The rock samples were crushed and pulverized in a ceramic-plated pulverizer.

A suitable weight of 5.0 or 10.0 grams is pretreated with HNO_3 and HClO_4 mixture.

After pretreatment the samples are digested with Aqua Regia solution, then taken up with 25% HCl to suitable volume and aliquot used for the 26 element ICP trace element analysis.

From the major remaining portion of the sample, Gold is preconcentrated by standard fire assay methods, then extracted with Methyl Iso-Butyl Ketone and analyzed by Atomic Absorption.

For Mercury analysis, 1 gram of sieved material is sintered at 90°C for 4 hours, then digested in HNO_3 and HCl acids mixture, and analyzed by the Hatch and Ott flameless AA method.

APPENDIX III.

Rock Sample Notes.

Sample # - Description

660WR - quartz-carbonate vein, 2cm, in rhyolite
900WR - rhyolite, with greenish hairline veinlets
920WR - siliceous, rusty, rhyolite
JB1 - float, rusty, rhyolite
JB2 - float, rhyolite, to 1% pyrite
JB3 - float, rhyolite, 1% pyrite
JB4 - float, trachyte, 1cm chert vein, 5% hem., 2% py.
JB5 - float, rhyolite, to 1% py.
JB6 - float, calcite, quartz-carbonate
JB7 - rhyolite, to 1% py.
JB8 - silicified dark volcanic, 2% py.
JB9 - float, quartzite, to 1% py.
JB10 - rhyolite, 1-2% py.
JB11 - altered rhyolite, to 1% py.
JB12 - float, rhyolite, 3% py.
JB13 - trachyte-andesite, to 1% py.
JB14 - trachyte-andesite, 1% py.
JB15 - float, rusty, altered rhyolite, to 1% py.
JB16 - float, argillite, 2-3% py.
JB17 - rhyolite, to 1% py.
JB18 - quartz-biotite, 4% py.
JB19 - rhyolite, to 1% py.
JB20 - rhyolite, to 1% py.
JB21 - rhyolite-dacite, 2% py.
JB22 - dacite, 1% py.
JB23 - barite-calcite vein, to 1% py.
JB24 - barite-calcite vein, 1% py.
JB25 - barite-calcite vein, 2% py.
JB26 - barite-calcite vein, to 1% py.
JB27 - rhyolite+barite, 1% py.
JB28 - quartz eye porph., 1% py.
JB29 - float, rhyolite-dacite, 2% py.

APPENDIX IV

ANALYTICAL RESULTS

ATTENTION: SAM ZAST.

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

* TYPE HEAVIES *

DATE: JHR 10. 1

(VALUES IN PPM)	AG	AL	AS	B	BA	BE	BI	CA	CD	CO	CU	FE	K
000N-HM	3.0	11240	27	54	2027	3.6	7	10910	1.2	7	41	142590	580
020N-HM	1.1	9530	14	32	837	2.1	3	8240	.8	5	88	93020	410
040N-HM	3.3	12550	38	45	2230	4.3	3	10290	1.8	8	54	161880	780
060N-HM	3.6	11430	25	42	4431	3.8	8	12030	1.2	9	39	145280	650
80N-HM	2.5	14030	17	44	1213	3.8	14	10260	.4	10	45	148650	670
100N-HM	1.8	13180	1	35	1845	2.5	8	22370	1.6	10	37	118790	950
120N-HM	4.8	14710	20	45	4245	3.8	7	11450	1.5	10	39	159290	1160
140N-HM	2.1	14960	15	48	487	4.0	8	13920	.3	9	34	154340	930
160N-HM	1.6	14870	25	49	1057	4.4	1	10390	1.8	11	58	181160	1070
180N-HM	1.3	11010	33	43	5417	5.3	5	5750	1.6	20	50	196920	990
200N-HM	2.8	16520	22	45	4386	3.8	8	10530	1.7	11	48	153320	1120
220N-HM	2.2	14150	26	45	401	4.6	5	10760	2.0	10	51	171050	700
240N-HM	1.5	14660	34	39	334	3.7	3	8410	1.9	9	46	134260	940
260N-HM	2.0	12740	33	42	428	4.5	3	10040	2.1	11	63	166790	810
280N-HM	2.4	15260	25	44	968	3.9	5	12300	.8	12	45	147210	1100
300N-HM	2.8	14540	30	52	776	4.9	3	11250	1.5	9	54	180950	810
000NW-HM	2.4	12880	26	40	2110	3.5	2	13140	.4	10	36	134570	780
020NW-HM	2.6	15090	51	49	1795	4.7	3	12600	2.0	11	61	181950	1080
040NW-HM	2.5	16170	43	48	1272	4.5	2	10960	.5	11	72	170020	1240
060NW-HM	2.2	15120	37	40	1568	4.0	3	10890	1.6	13	65	160820	1220
080NW-HM	2.2	13570	37	44	3802	4.9	3	9510	1.2	11	59	183960	820
100NW-HM	28.2	6060	2	14	1475	.9	2	5830	.6	11	41	75170	710
120NW-HM	2.4	15080	28	37	1670	3.1	2	8350	1.8	9	55	118870	1090
140NW-HM	2.8	14530	34	46	1659	5.3	5	10750	1.4	12	65	208540	970
160NW-HM	2.0	15050	39	48	2275	5.0	2	10020	2.0	10	71	185560	1030
180NW-HM	2.4	14270	26	45	1992	4.5	4	11110	1.8	11	49	175920	900
200NW-HM	3.4	13650	27	40	520	3.9	2	9440	1.4	9	42	150910	850
220NW-HM	1.5	14850	16	36	1097	3.2	2	10280	.7	10	39	130040	960
240NW-HM	.8	9390	9	22	960	1.6	1	5860	1.6	8	29	87290	450
260NW-HM	.9	10860	11	31	918	2.6	1	8180	1.3	7	32	123320	520
(VALUES IN PPM)	LI	MG	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V
000N-HM	20	10530	858	1	150	17	3970	39	1	24	1	1	393.9
020N-HM	12	9020	836	1	110	14	3880	29	2	9	1	1	246.8
040N-HM	12	10580	1287	1	160	15	4240	85	5	18	1	1	404.8
060N-HM	9	9500	1295	1	160	16	4740	25	4	78	1	1	386.4
80N-HM	18	8320	1048	1	180	13	1850	28	4	31	1	1	377.6
100N-HM	7	12050	1003	2	250	30	4810	20	2	93	1	1	297.8
120N-HM	11	12400	1334	2	220	28	3250	162	5	61	1	1	389.1
140N-HM	12	12860	1230	2	210	19	4510	21	3	20	1	1	410.4
160N-HM	11	11650	2139	1	210	27	2980	36	2	6	1	1	408.8
180N-HM	5	7650	2079	2	120	29	2340	15	3	95	1	1	499.0
200N-HM	10	9910	1389	1	160	19	2970	22	8	63	1	1	374.1
220N-HM	11	8490	1192	1	130	14	2660	22	1	10	1	1	410.8
240N-HM	11	8710	1314	2	140	16	2300	13	2	7	1	1	306.6
260N-HM	9	8460	1299	2	140	17	4120	13	3	1	1	1	402.0
280N-HM	11	8790	1169	2	180	19	3980	27	3	34	1	1	362.0
300N-HM	15	10040	1614	2	140	19	3140	26	8	1	1	1	404.5
000NW-HM	10	10650	918	1	190	23	5500	22	4	39	1	1	339.8
020NW-HM	11	10430	1376	1	180	23	5270	40	6	37	1	1	432.1
040NW-HM	12	10830	1357	2	180	24	4310	69	4	25	1	1	403.5
060NW-HM	7	9320	1262	1	170	18	4020	65	7	36	1	1	357.8
080NW-HM	9	8430	1296	1	130	20	3220	13	4	38	1	1	452.7
100NW-HM	2	4250	509	1	100	16	3860	38	2	23	1	1	145.5
120NW-HM	11	8310	1271	1	160	20	3140	16	4	27	1	1	272.8
140NW-HM	10	10110	1364	3	160	32	3740	29	5	13	1	1	515.6
160NW-HM	11	10430	1468	3	150	17	2790	34	8	13	1	1	417.7
180NW-HM	10	8740	1299	2	140	19	3410	20	2	33	1	1	429.0
200NW-HM	9	8160	1035	2	110	19	2280	27	5	13	1	1	353.1
220NW-HM	11	9900	1178	1	150	27	2750	26	4	36	1	1	301.3
240NW-HM	10	8180	1368	1	90	22	2600	32	4	11	1	1	204.6
260NW-HM	9	9400	839	2	110	19	2950	21	4	9	1	1	305.6

(VALUES IN PPM)	ZN	GA	SN	W	CR	AU-PPB	HS-PPB	BA-TOT	HMZ
000N-HM	126	1	1	2	98	20	675	NES	.45
020N-HM	165	1	2	2	48	25	65	8400	.69
040N-HM	202	1	4	2	92	1720	45	11000	.68
060N-HM	173	1	2	2	82	102	65	50000	.88
80N-HM	121	1	1	2	90	50	125	3400	.44
100N-HM	132	1	2	2	57	45	85	NES	.17
120N-HM	172	1	4	3	81	25	85	NES	.34
140N-HM	154	1	1	2	97	25	90	900	.28
160N-HM	213	1	4	2	74	10	80	NES	.25
180N-HM	372	1	4	2	52	25	145	90000	.54
200N-HM	259	1	1	2	91	15	65	NES	.18
220N-HM	155	1	1	2	94	25	210	1300	.62
240N-HM	159	1	1	2	68	29	80	1700	1.20
260N-HM	162	1	1	2	106	50	65	1200	.73
280N-HM	137	1	1	3	120	25	95	2600	.57
300N-HM	194	1	2	3	96	25	75	4400	.78
000NW-HM	105	1	1	2	89	42	110	9400	.74
020NW-HM	158	1	1	2	113	40	160	5200	.41
040NW-HM	147	1	88	2	109	30	14000	NES	.37
060NW-HM	139	1	4	2	72	15	270	NES	.25
080NW-HM	194	1	5	3	117	10	120	20000	.46
100NW-HM	62	1	5	1	37	20	400	NES	.06
120NW-HM	122	1	1	2	56	320	185	6800	.85
140NW-HM	170	1	5	2	137	10	90	4100	.43
160NW-HM	164	1	1	2	71	50	115	5400	.27
180NW-HM	148	1	4	2	128	50	115	8100	.51
200NW-HM	115	1	2	2	81	45	100	2500	.32
220NW-HM	114	1	2	2	55	25	85	NES	.26
240NW-HM	104	1	3	2	47	10	870	NES	.23
260NW-HM	104	1	3	2	63	15	95	NES	.21

(VALUES IN PPM)	AG	AL	AS	B	BA	BE	BI	CA	CD	CO	CU	FE	K
280NW-HM	2.5	12790	32	52	1015	3.5	5	11440	.9	7	55	149360	730
300NW-HM	1.4	12160	20	41	1413	3.5	1	10440	1.8	6	41	143100	590
320NW-HM	1.0	13630	33	45	671	3.8	4	8900	1.3	7	45	159600	570
340NW-HM	2.5	14760	29	47	3080	4.0	6	11640	1.3	9	48	163560	750
360NW-HM	1.7	12770	40	44	4268	5.0	5	8680	.4	65	88	215100	930
380NW-HM	1.0	14430	31	40	1393	3.9	6	9570	1.3	12	59	191110	1070
400NW-HM	1.3	12160	25	35	2278	3.5	1	9820	1.1	8	43	156750	740
420NW-HM	8.9	13290	33	42	317	3.9	3	8700	2.1	9	49	163540	720
440NW-HM	1.7	15060	23	45	7828	3.8	4	11290	.6	11	47	169830	1130
460NW-HM	2.3	16320	27	46	2382	3.9	7	11500	.3	11	49	170550	1050
480NW-HM	1.9	14330	37	48	897	4.3	1	9450	1.7	9	50	179460	800
500NW-HM	1.9	14610	36	56	3582	5.0	2	9520	.4	9	49	202880	940
520NW-HM	2.1	15810	36	50	831	4.3	7	11150	1.4	11	56	174680	1130
540NW-HM	2.2	17120	33	47	292	3.8	5	9970	2.1	13	56	156100	1290
560NW-HM	2.0	14360	30	48	2354	4.0	4	11420	.4	10	42	161950	830
580NW-HM	2.6	18370	34	58	922	3.6	3	11290	.4	9	60	146950	1280
600NW-HM	2.0	19550	43	59	705	3.9	3	11330	1.3	12	71	167510	1470
620NW-HM	1.6	16030	37	45	415	5.8	4	7720	1.1	17	66	228980	940
640NW-HM	1.8	17090	29	56	1125	4.4	4	11310	.9	9	54	179960	1120
660NW-HM	2.8	16700	35	51	1724	4.1	3	11040	.3	11	61	167560	1270
680NW-HM	2.2	13960	32	47	249	4.3	4	9720	1.6	10	56	172890	1040
700NW-HM	1.5	17820	33	52	652	3.6	3	9020	1.1	8	96	152870	1390
020E-HM	2.4	13910	20	36	631	3.4	10	10570	.9	11	39	141200	920
040E-HM	2.0	12790	18	34	300	3.0	6	8550	1.6	9	40	125550	930
060E-HM	1.6	13320	48	43	500	4.5	1	10130	1.3	8	67	182590	830
080E-HM	2.0	13920	20	38	1224	3.6	7	9600	1.0	9	49	150770	840
100E-HM	1.6	15970	31	45	1942	3.2	1	10230	.8	11	54	156270	1310
120E-HM	.6	11640	10	24	1805	1.2	1	7840	.9	8	39	93210	930
140E-HM	1.2	14740	19	35	647	2.4	4	8200	2.1	10	59	140780	1190
160E-HM	2.1	12870	32	42	1353	4.0	5	8620	1.3	9	57	172200	820

ATTENTION: S.ZAST.	(604)980-5814 DR (604)988-4524										* TYPE HEAVIES *			DATE: JAN 13,	
(VALUES IN PPM)	LI	MG	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V		
280NW-HM	18	11260	988	2	130	22	3170	65	4	9	1	1	366.5		
300NW-HM	14	10150	997	1	120	15	2910	28	3	1	1	1	366.1		
320NW-HM	16	10040	929	1	120	17	2020	23	2	9	1	1	398.0		
340NW-HM	13	11910	1011	2	160	25	3160	73	4	25	1	1	409.5		
360NW-HM	7	11660	1870	1	150	33	3310	32	4	23	1	1	383.3		
380NW-HM	8	10380	1372	1	150	14	3540	19	5	21	1	1	417.1		
400NW-HM	6	10670	1060	2	140	20	3470	39	1	17	1	1	373.4		
420NW-HM	10	8510	1117	2	110	17	2180	43	14	8	1	1	383.8		
440NW-HM	10	11240	1361	2	170	17	3300	30	5	34	1	1	413.4		
460NW-HM	13	11060	1435	1	180	26	2920	33	6	40	1	1	440.0		
480NW-HM	11	10680	1385	2	160	20	2540	15	4	11	1	1	457.3		
500NW-HM	12	10510	1516	2	170	14	2700	17	1	18	1	1	507.8		
520NW-HM	12	10560	1385	3	180	18	2150	22	6	6	1	1	443.1		
540NW-HM	10	11660	1559	2	160	29	1960	25	9	8	1	1	381.7		
560NW-HM	11	10470	1356	1	180	21	2680	38	5	29	1	1	429.7		
580NW-HM	25	12410	1466	1	230	23	2080	35	5	1	1	1	364.4		
600NW-HM	16	12950	1643	1	240	30	2320	47	14	13	1	1	414.9		
620NW-HM	11	9030	1173	1	550	136	3870	17	16	5	1	1	476.6		
640NW-HM	15	10910	1558	2	190	21	2650	9	4	24	1	1	460.8		
660NW-HM	12	10490	1610	2	180	21	3630	26	6	12	1	1	421.8		
680NW-HM	11	9440	1422	2	130	12	2500	21	3	14	1	1	438.6		
700NW-HM	14	10080	1586	2	210	19	1740	37	8	11	1	1	380.1		
020C-HM	7	7000	1167	2	130	19	2560	16	4	23	1	1	338.1		
040C-HM	9	5870	1263	1	120	17	1350	21	1	14	1	1	302.8		
060C-HM	11	9400	1231	3	150	21	3830	28	5	16	1	1	459.6		
080C-HM	10	8280	1086	2	150	18	2700	23	4	23	1	1	383.4		
100C-HM	10	11030	1293	1	200	25	3060	34	12	33	1	1	370.6		
120C-HM	7	8580	798	2	150	28	3170	26	10	21	1	1	210.0		
140C-HM	10	10800	1338	1	160	39	3240	39	12	10	1	1	334.2		
160C-HM	11	10380	1419	1	150	20	3330	50	10	3	1	1	441.7		
(VALUES IN PPM)	ZN	BA	SN	W	CR	AU-PPB	HG-PPB	BA-TDT	HMZ						
280NW-HM	126	1	2	2	74	10	95	NES	.25						
300NW-HM	122	1	3	2	74	15	105	20000	.43						
320NW-HM	121	1	3	2	67	70	120	NES	.36						
340NW-HM	131	1	2	2	109	35	130	2000	.58						
360NW-HM	190	1	1	2	42	15	145	NES	.34						
380NW-HM	134	1	1	3	33	25	125	NES	.28						
400NW-HM	135	1	1	3	57	25	135	NES	.31						
420NW-HM	152	1	2	2	69	35	90	1500	.47						
440NW-HM	148	1	4	3	67	35	115	NES	.30						
460NW-HM	147	1	3	3	114	10	115	NES	.37						
480NW-HM	147	1	1	2	81	40	150	2200	.44						
500NW-HM	151	1	1	3	53	100	140	11000	.75						
520NW-HM	155	1	1	2	124	5	260	NES	.28						
540NW-HM	141	1	4	3	87	5	140	NES	.39						
560NW-HM	143	1	2	3	95	45	155	5000	.49						
580NW-HM	160	1	1	2	58	20	130	NES	.50						
600NW-HM	175	1	5	3	98	10	610	NES	.42						
620NW-HM	452	1	5	3	464	35	120	1000	.45						
640NW-HM	177	1	5	2	81	40	115	2300	.45						
660NW-HM	160	1	1	3	78	125	165	6000	.47						
680NW-HM	152	1	1	3	85	20	130	800	.71						
700NW-HM	161	1	4	2	50	35	125	NES	.35						
020C-HM	122	1	1	2	84	30	65	2500	.46						
040C-HM	131	1	1	2	89	50	80	1000	1.22						
060C-HM	144	1	4	3	88	20	105	900	.77						
080C-HM	132	1	1	2	104	15	110	1800	.38						
100C-HM	125	1	3	3	58	5	140	NES	.32						
120C-HM	81	1	3	1	42	5	195	NES	.22						
140C-HM	122	1	2	3	87	20	155	NES	.25						
160C-HM	154	1	1	2	105	40	140	NES	.36						

ATTENTION: S.ZAST.

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

* TYPE HEAVIES *

DATE: JAN 13, 198

(VALUES IN PPM)	AG	AL	AS	B	BA	BE	BI	CA	CD	CO	CU	FE	K
180C-HM	1.2	10810	18	35	485	2.7	1	4910	.8	7	35	132870	660
200C-HM	18.6	13130	25	41	1569	3.3	9	9560	.1	8	70	161140	880
220C-HM	2.9	12780	15	43	2274	3.8	7	10460	1.6	9	46	177070	800
240C-HM	2.0	12800	18	44	2817	3.9	11	10210	2.1	9	40	184720	820
260C-HM	1.4	12780	18	48	3520	4.4	1	8590	2.6	8	42	213000	800
280C-HM	1.8	12270	23	44	3931	4.3	13	8870	.8	9	39	190210	720
300C-HM	1.3	13920	20	44	351	3.9	2	9580	.8	9	53	175770	770
320C-HM	1.1	10730	23	33	338	3.0	4	6240	.8	8	40	151620	460
340C-HM	1.6	13670	12	35	4469	2.2	8	7800	.2	10	41	127460	820
780W-HM	.9	10570	16	30	359	3.4	3	5450	.9	10	38	154890	670
800W-HM	1.4	11750	27	38	1395	4.2	5	4980	1.5	8	60	186680	1200
820W-HM	.9	15730	17	38	465	3.3	2	7470	1.5	9	50	151950	1780
840W-HM	1.7	14790	18	40	498	3.5	5	8950	1.7	8	49	162020	1700
860W-HM	1.7	14850	20	38	617	3.7	4	8770	1.5	9	50	163750	1320
880W-HM	2.2	15390	19	39	355	4.2	6	9440	1.1	10	69	184260	970
900W-HM	2.1	15450	16	40	655	3.7	5	9750	1.5	9	91	167840	1150
920W-HM	2.1	14330	13	38	258	3.6	5	9880	1.6	10	45	162090	870

(VALUES IN PPM)	LI	MG	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V
180C-HM	10	6550	1045	1	90	16	1090	38	2	12	1	1	351.8
200C-HM	13	10590	1517	1	140	17	3190	50	9	4	1	1	395.0
220C-HM	11	9750	1470	1	160	16	3230	14	1	18	1	1	472.3
240C-HM	11	9280	1514	2	160	17	3080	10	1	30	1	1	514.8
260C-HM	11	8660	1159	2	150	12	2650	71	4	20	1	1	567.5
280C-HM	10	9840	1202	1	160	14	2670	13	2	36	1	1	520.7
300C-HM	13	8950	1165	2	140	19	2870	5	4	16	1	1	464.7
320C-HM	13	6580	1065	1	80	19	1350	10	6	4	1	1	382.4
340C-HM	11	10590	1011	1	190	28	2030	30	5	73	1	1	328.4
780W-HM	6	6300	1204	1	50	19	2210	13	1	4	1	1	365.7
800W-HM	6	5750	1202	1	80	16	2790	22	4	6	1	1	437.4
820W-HM	9	6090	1621	1	90	17	3060	22	4	4	1	1	361.3
840W-HM	8	6230	1430	2	100	20	3720	21	4	8	1	1	392.0
860W-HM	7	6330	1428	2	90	21	2770	28	5	10	1	1	395.4
880W-HM	6	5770	1562	1	80	10	1690	17	4	15	1	1	454.9
900W-HM	7	6160	1566	2	80	15	2670	26	6	25	1	1	398.3
920W-HM	6	5810	1310	2	90	13	2240	17	3	32	1	1	391.4

(VALUES IN PPM)	ZN	GA	SN	W	CR	AU-PPB	HG-PPB	BA-TOT	HMZ
180C-HM	121	1	2	2	94	120	105	1800	.78
200C-HM	155	1	3	2	72	10	120	12000	.39
220C-HM	164	1	4	2	103	20	110	10000	.48
240C-HM	152	1	4	2	96	35	100	14000	.68
260C-HM	121	1	3	2	54	40	90	20000	.47
280C-HM	162	1	3	2	81	50	100	20000	.92
300C-HM	144	1	4	2	93	5	110	800	.73
320C-HM	165	1	2	2	97	300	75	750	.67
340C-HM	130	1	1	2	61	25	105	NES	.47
780W-HM	215	1	3	2	99	110	80	6800	1.05
800W-HM	164	1	5	2	132	71	85	3600	.74
820W-HM	156	1	1	2	72	75	70	1800	.81
840W-HM	188	1	4	2	83	120	95	4200	.78
860W-HM	182	1	4	2	92	15	80	9800	1.36
880W-HM	183	1	5	3	99	11	125	850	1.11
900W-HM	202	1	1	2	68	23	200	1800	1.17
920W-HM	159	1	1	2	74	86	75	750	1.17

(VALUES IN PPM)	AG	AL	AS	B	BA	BE	BI	CA	CD	CO	CU	FE	K
JB 1 F -HM	8.5	2870	327	61	134	9.8	4	7340	4.8	39	299	338370	940
JB 2 F -HM	9.0	2770	81	37	3691	5.4	1	3160	5.1	17	97	166750	1300
JB 3 F -HM	8.7	1640	94	12	740	2.7	2	990	5.1	15	120	82820	720
JB 4 F -HM	2.1	1540	8	6	520	2.4	1	1440	4.2	35	27	79680	640
JB 5 F -HM	2.4	2370	17	8	128	2.1	2	1040	3.9	2	29	68900	1320
JB 6 F -HM	2.1	1520	16	1	731	.9	1	550	4.8	2	31	25810	1010
JB 7 F -HM	1.5	1660	11	1	3563	.9	1	450	4.5	2	29	34410	820
JB 8 F -HM	7.2	1940	402	14	1603	4.5	5	400	3.9	11	167	143620	1000
JB 9 F -HM	2.8	3010	302	12	662	3.3	2	1480	4.0	8	113	111700	1360
JB 10 F-HM	2.8	2270	237	11	1257	2.2	3	350	3.6	6	90	83030	1880
JB 11 F-HM	1.2	9980	92	16	381	2.1	2	2330	3.1	5	36	66900	1680
JB 12 F-HM	2.7	2370	352	13	256	4.2	1	710	4.8	9	126	145020	1170
JB 13 F-HM	1.3	8790	81	31	271	6.3	4	3090	2.7	120	66	220140	280
JB 14 F-HM	1.8	3220	290	11	612	3.3	2	1060	4.8	16	108	112830	1260
JB 15 F-HM	8.4	3960	120	32	345	7.6	3	810	2.7	2	99	268950	1140
JB 16 F-HM	2.6	7230	69	54	377	5.9	7	6740	3.6	1	64	213230	2280
JB 17 F-HM	2.7	2320	434	24	842	5.4	3	2420	5.4	8	83	188740	1090
JB 18 F-HM	.9	8300	13	10	2945	.8	1	1340	1.3	4	20	21820	1130
JB 19 F-HM	2.7	2060	839	21	592	6.9	1	350	6.6	15	127	240380	440
JB 20 F-HM	3.0	1610	441	19	710	5.4	1	300	4.5	13	180	185190	760
JB 21 F-HM	3.0	1900	380	25	924	6.9	1	1390	4.5	7	70	231740	810
JB 22 F-HM	3.0	3580	477	34	1016	10.0	9	770	4.4	9	346	333110	1360
JB 23 F-HM	.8	180	1	1	3989	.1	1	70	1.3	1	33	1870	100
JB 24 F-HM	3.6	3190	11	11	2942	1.4	2	2740	1.4	3	557	43500	1640
JB 25 F-HM	1.7	1570	5	3	2948	.5	1	2910	30.5	3	51	10610	860
JB 26 F-HM	.8	570	1	1	3960	.1	1	210	1.8	1	111	2280	240
JB 27 F-HM	.3	580	1	1	3015	.2	1	300	1.7	1	48	2960	250
JB 28 F-HM	3.3	1390	332	7	4712	3.6	2	1490	4.2	10	222	106510	590
JB 29 F-HM	5.1	2680	619	34	411	9.3	2	1140	7.2	21	233	306170	960

(VALUES IN PPM)	LI	MG	NN	MO	NA	NI	P	PB	SD	SR	TH	U	V
JB 1 F -HM	11	4620	489	3	120	39	5160	24	9	4	1	1	23.0
JB 2 F -HM	4	2750	13784	13	50	202	2380	218	16	6	1	1	45.0
JB 3 F -HM	1	1390	7749	26	50	507	1320	613	18	4	1	1	18.3
JB 4 F -HM	1	1110	1435	5	200	80	1510	45	4	4	1	1	69.9
JB 5 F -HM	1	1120	2198	7	190	172	1090	20	5	1	1	1	99.0
JB 6 F -HM	1	520	1083	5	230	80	660	16	4	17	1	2	9.6
JB 7 F -HM	1	790	1998	8	50	160	330	25	7	27	1	1	14.7
JB 8 F -HM	1	1610	3872	42	60	390	1060	76	19	15	1	2	48.6
JB 9 F -HM	1	1350	3229	25	240	349	1740	63	13	9	1	1	24.3
JB 10 F-HM	1	950	1192	15	70	116	400	78	11	8	1	1	28.1
JB 11 F-HM	3	4230	1450	4	110	75	970	26	6	2	1	1	47.4
JB 12 F-HM	1	1700	2440	26	160	230	890	39	12	11	2	2	113.4
JB 13 F-HM	3	9470	1147	1	310	58	3090	6	11	16	1	1	437.3
JB 14 F-HM	1	1820	2135	21	270	219	1440	16	11	1	1	1	52.5
JB 15 F-HM	1	3150	2947	16	70	142	900	138	2	12	1	1	144.4
JB 16 F-HM	10	7080	813	1	340	25	1210	25	14	13	1	1	342.1
JB 17 F-HM	1	2740	2700	20	150	274	980	58	15	4	2	2	179.7
JB 18 F-HM	16	9870	1355	2	210	7	1070	12	2	517	1	1	36.2
JB 19 F-HM	1	2800	2278	29	50	312	920	80	18	7	5	2	142.8
JB 20 F-HM	1	1940	5135	40	50	407	790	64	13	2	3	1	64.2
JB 21 F-HM	1	2350	3908	15	60	176	1900	69	16	15	1	2	151.8
JB 22 F-HM	1	2950	4123	31	70	259	2620	81	19	11	2	1	110.0
JB 23 F-HM	1	80	84	1	10	2	50	325	2	412	1	1	1.4
JB 24 F-HM	1	740	633	1	410	5	3180	148	2	362	1	1	66.0
JB 25 F-HM	1	4510	662	1	90	5	850	288	3	591	1	1	10.0
JB 26 F-HM	1	200	125	1	20	1	180	786	2	526	1	1	3.0
JB 27 F-HM	1	160	143	1	50	1	290	259	2	522	1	1	3.9
JB 28 F-HM	1	1110	1723	22	90	204	1730	67	11	115	2	2	35.1
JB 29 F-HM	1	3180	13518	55	150	975	1590	92	39	14	2	1	57.3

COMPANY: SAM ZAST.
 PROJECT NO: APEX
 ATTENTION: S.ZAST.

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

COMPANY: SAM ZAST.
 PROJECT NO: APEX
 * TY: ATTENTION: S.ZAST.

(VALUES IN PPM)	ZN	GA	SN	W	CR	AU-PPB	HG-PPB	BA-TDT	HMZ	(PPM)	660WR-HM	900WR-HM	920WR-HM
JB 1 F -HM	68	1	4	1	226	20	1175	NES	.32	AG	152.3	6.0	2.4
JB 2 F -HM	836	2	3	1	1528	10	2325	NES	.16	AL	3320	6280	4970
JB 3 F -HM	298	2	1	1	1385	15	2300	NES	.12	AS	1588	92	24
JB 4 F -HM	84	1	2	1	505	15	1000	NES	.13	B	43	48	45
JB 5 F -HM	101	1	2	1	784	10	1020	NES	.17	BA	991	1257	1345
JB 6 F -HM	123	1	3	1	405	15	165	NES	.24				
JB 7 F -HM	171	1	4	1	732	10	1425	NES	.12	BE	7.8	9.9	9.9
JB 8 F -HM	501	1	4	5	10648	25	1350	NES	.20	BI	9	3	4
JB 9 F -HM	133	1	1	4	7013	40	200	NES	.30	CA	18150	2230	5270
JB 10 F-HM	172	1	1	3	6206	20	640	NES	.29	CD	72.6	2.5	2.1
JB 11 F-HM	219	1	1	2	2763	8	425	NES	.40	CO	13	3	3
JB 12 F-HM	192	1	2	5	9297	55	400	NES	.21				
JB 13 F-HM	106	1	1	2	1643	25	75	4600	.80				
JB 14 F-HM	104	1	3	3	6075	30	250	NES	.20	CU	33508	841	158
JB 15 F-HM	901	1	1	2	2820	20	1080	NES	.57	FE	260890	342780	352040
JB 16 F-HM	51	1	3	1	734	25	55	2400	.96	K	420	1070	560
JB 17 F-HM	209	1	1	6	11335	15	425	NES	.11	LI	2	1	1
JB 18 F-HM	355	1	1	1	141	45	40	400000	55.14	MG	6290	5280	5250
JB 19 F-HM	464	1	4	11	21737	20	220	NES	.93				
JB 20 F-HM	458	1	4	6	11823	80	375	NES	.72	MN	26318	10566	7761
JB 21 F-HM	238	1	4	5	9872	10	50	NES	.18	MO	7	22	13
JB 22 F-HM	705	1	4	6	11800	15	1330	NES	.26	NA	70	60	50
JB 23 F-HM	20	1	1	1	49	30	130	575000	94.22	NI	116	303	105
JB 24 F-HM	107	1	1	1	313	15	305	340000	36.91	NJ	11250	2780	3960
JB 25 F-HM	1925	1	1	1	57	5	5500	565000	91.10	P			
JB 26 F-HM	91	1	1	1	24	10	120	540000	80.12				
JB 27 F-HM	42	1	1	1	15	15	385	450000	71.45	PB	776	146	202
JB 28 F-HM	172	1	3	4	8848	10	100	NES	.07	SB	2342	52	14
JB 29 F-HM	285	2	6	7	12886	60	600	NES	.19	SR	222	1	16
										TH	2	2	1
										U	1	1	1
										V	219.7	198.4	232.6
										ZN	2213	1785	2239
										GA	3	1	1
										SN	133	48	1
										W	3	1	2
										CR	76	356	78
										AU-PPB	745	400	40
										HG-PPB	112500	3900	1500
										BA-TDT	30000	2600	3000
										HMZ	3.10	1.54	3.61

(VALUES IN PPM)	AG	AL	AS	B	BA	BE	BI	CA	CD	CO	CU	FE
000N	1.0	15770	8	29	429	1.2	3	8100	.9	7	26	34080
020N	1.0	17170	8	29	423	1.2	2	8810	1.5	6	49	34710
040N	.7	20490	12	34	700	1.4	5	8890	1.9	10	34	40800
060N	1.0	16290	8	28	747	1.2	3	10380	1.1	7	25	34260
080N	.8	16850	5	27	449	1.2	5	6080	.3	6	27	33020
100N	.1	15560	9	31	531	.9	1	48350	1.4	5	46	27500
120N	.5	19280	8	31	429	1.4	4	12490	2.1	10	32	39310
140N	.8	20800	5	37	500	1.3	4	20250	1.5	10	48	38920
160N	.8	20630	6	31	421	1.5	4	7640	1.4	11	41	43130
180N	1.0	21720	7	35	977	1.9	6	6190	1.4	14	41	55650
200N	1.0	27710	5	40	806	1.6	4	5990	1.3	10	52	42870
220N	.7	18610	8	26	466	1.4	5	4200	1.0	9	30	39130
240N	.7	18480	7	27	421	1.4	5	4000	.8	9	24	40130
260N	1.0	15570	9	22	342	1.3	5	3750	1.1	8	30	38550
280N	.8	20930	13	30	584	1.5	4	6160	.8	10	37	39910
300N	1.2	16170	8	27	530	1.2	4	6040	1.0	8	29	33270
000NW	1.0	19590	11	32	469	1.4	4	8490	1.5	9	25	38320
020NW	1.0	24400	18	37	579	1.6	4	6390	1.0	12	50	46130
040NW	.8	24800	16	35	569	1.7	6	5850	1.6	11	53	46230
060NW	.8	24810	11	33	526	1.6	4	5980	.8	11	47	43870
080NW	.8	18870	8	25	656	1.3	5	4300	.5	8	44	37350
100NW	.5	16150	26	25	536	1.6	3	4450	1.0	9	45	47820
120NW	.5	16140	7	20	371	1.2	2	3610	.4	8	28	34940
140NW	.8	26420	10	36	716	1.8	7	6730	1.1	12	49	49830
160NW	.5	21790	11	30	519	1.6	6	4520	1.0	10	36	44290
180NW	.7	22440	10	31	597	1.5	4	5720	1.3	10	46	42800
200NW	.5	17870	6	25	409	1.2	3	3790	.5	7	21	33390
220NW	.6	22740	7	33	508	1.4	5	6800	.7	10	40	41120
240NW	.3	20930	8	35	445	1.3	5	6420	.8	9	35	36930
260NW	.7	21260	5	33	402	1.4	4	7950	1.1	9	39	37940
280NW	.9	18230	7	31	324	1.2	2	8300	1.4	9	39	37790
300NW	.7	17800	9	29	469	1.3	4	8160	2.0	9	47	38630
320NW	.6	20210	12	29	505	1.3	4	6040	.6	9	46	39350
340NW	.4	18800	11	27	492	1.3	4	7120	1.4	11	45	39720
360NW	.4	19040	12	28	446	1.5	3	6140	1.1	13	49	48750
380NW	.2	19910	6	30	425	1.3	4	6020	1.1	8	35	38360
400NW	.4	17870	6	27	372	1.1	2	7860	.8	8	38	36090
420NW	2.2	18690	10	26	360	1.2	4	5170	.9	8	37	37900
440NW	.3	20810	8	31	533	1.3	4	7670	1.3	9	42	39570
460NW	.7	21970	7	33	556	1.3	4	6550	1.4	11	42	40610
480NW	.9	24660	12	40	849	1.4	5	8550	1.2	10	84	43060
500NW	.7	21130	10	34	694	1.3	3	7330	.6	10	65	39680
520NW	.1	19240	6	29	385	1.2	4	5640	.2	9	28	36540
540NW	.3	23560	11	32	400	1.4	3	5480	1.2	11	47	43600
560NW	.2	21090	5	32	501	1.4	3	8450	1.0	10	49	40430
580NW	1.1	22590	10	39	427	1.4	3	8160	2.2	9	41	41200
600NW	.7	22800	5	33	399	1.4	5	6150	1.2	11	48	43660
620NW	.7	23800	4	34	518	2.1	7	9870	1.2.	16	64	66630
640NW	.7	22210	5	33	569	1.4	5	5690	1.4	10	37	41490
660NW	.6	25100	8	37	585	1.6	5	6460	1.4	12	54	47360
680NW	.6	17410	10	24	332	1.2	4	4010	.6	9	28	36830
700NW	.2	22580	9	34	672	1.3	4	5610	1.2	10	45	40440
020C	.4	16610	5	21	436	1.1	2	3730	1.0	7	23	30700
040C	.4	15630	8	21	567	1.2	3	4630	1.5	7	27	33390
060C	.3	19450	8	26	473	1.4	4	4590	1.3	9	34	41660
080C	.6	25190	8	34	745	1.6	4	6290	1.1	10	71	45820
100C	.8	27210	10	38	642	1.8	4	7510	.9	12	51	50960
120C	.2	20710	10	29	452	1.4	3	5820	1.2	9	39	38120
140C	.2	24390	8	32	526	1.5	4	5130	1.1	11	44	42660
160C	.4	23390	11	32	598	1.5	3	6070	1.3	11	46	44470

(VALUES IN PPM)	K	LI	MG	MN	MO	NA	NI	P	PB	SB	SR	TH
000N	1390	19	10200	801	1	280	10	1610	16	3	38	1
020N	1130	16	10250	1163	1	270	14	1940	21	1	41	1
040N	1720	18	12030	2373	1	280	17	2280	24	2	44	1
060N	1280	14	10290	1511	1	300	10	2390	15	1	48	1
080N	970	32	7880	872	1	250	6	1100	7	1	33	1
100N	1220	11	10510	924	1	270	16	3230	1	3	183	1
120N	1490	18	12100	1554	1	290	23	2020	16	1	51	1
140N	1580	19	14760	1966	1	380	22	3210	14	4	61	1
160N	1590	18	11570	1935	1	330	16	1640	13	1	39	1
180N	1970	18	10060	2861	1	220	21	1610	14	1	41	1
200N	2200	25	10740	1656	1	220	20	1740	17	4	33	1
220N	1240	21	8800	1133	1	210	10	1200	7	2	27	1
240N	1520	18	8280	1133	1	200	10	1170	13	2	26	1
260N	1370	14	8520	1008	1	200	12	1240	6	1	27	1
280N	1900	20	10590	1439	1	240	16	1660	18	3	41	1
300N	1160	23	7940	1198	1	180	15	1170	11	1	29	1
000NW	1760	18	11160	899	1	390	14	2450	11	2	49	1
020NW	2300	23	12920	1737	1	270	20	2010	21	3	39	1
040NW	2020	20	11560	1396	1	260	20	1770	21	3	38	1
060NW	2410	20	11200	1298	1	240	20	1810	22	3	41	1
080NW	1430	19	8960	1139	1	190	14	1530	8	1	27	1
100NW	1570	13	6540	1397	1	170	11	2410	19	1	22	1
120NW	1130	14	7870	1033	1	150	14	1100	5	2	24	1
140NW	2010	25	12800	1441	1	310	19	1840	19	2	48	1
160NW	1840	21	11190	1249	1	220	20	1250	10	3	31	1
180NW	1580	23	10860	1472	1	260	21	1590	12	4	41	1
200NW	1790	17	7620	785	1	170	11	810	4	1	27	1
220NW	1720	21	11310	1287	1	270	24	1720	16	1	43	1
240NW	1560	23	9570	979	1	240	16	1160	13	1	38	1
260NW	1700	19	10670	1087	1	290	17	1650	13	2	45	1
280NW	1590	21	10610	957	1	210	17	1670	31	3	39	1
300NW	1280	20	10620	1458	1	220	18	1920	28	2	34	1
320NW	1140	30	9750	964	1	230	15	1390	19	3	32	1
340NW	1050	20	10840	1065	1	280	19	1630	28	3	36	1
360NW	1410	18	9260	1421	1	240	19	1950	26	4	34	1
380NW	1450	21	9190	1104	1	190	14	1240	25	4	34	1
400NW	1290	14	10110	909	1	220	11	2050	15	2	39	1
420NW	1240	23	8520	883	1	180	15	1030	40	3	28	1
440NW	1660	19	10640	1318	1	260	21	1940	25	3	41	1
460NW	1580	25	9570	1836	1	260	21	1450	21	5	38	1
480NW	1580	24	10690	1830	1	300	21	1740	10	3	43	1
500NW	1480	20	9410	1960	1	270	16	1750	21	3	39	1
520NW	1720	20	9480	1119	1	250	12	1170	15	2	37	1
540NW	2070	19	11180	1290	1	220	16	1170	15	2	37	1
560NW	1580	24	11650	1701	1	310	17	1760	16	3	44	1
580NW	1730	33	11780	1275	1	290	14	1250	27	3	38	1
600NW	1850	20	11270	1439	1	350	19	1310	22	3	45	1
620NW	1310	14	11020	1119	1	1330	48	4180	6	1	149	1
640NW	1920	26	10280	1421	1	300	18	1260	13	4	39	1
660NW	2250	20	12600	1755	1	280	18	1590	22	2	41	1
680NW	1750	17	9290	1207	1	190	14	990	14	3	26	1
700NW	2030	24	9920	1638	1	260	17	1160	20	3	38	1
020C	1580	14	6560	821	1	170	10	990	5	3	29	1
040C	1570	14	6180	1404	1	180	10	990	11	1	32	1
060C	1690	19	9790	1064	1	280	12	1290	17	2	36	1
080C	1900	25	10510	1366	1	290	18	1350	17	4	47	1
100C	2320	25	12850	1651	1	350	18	1910	20	4	51	1
120C	1740	21	10220	1122	1	240	18	1660	20	2	37	1
140C	2050	21	11580	1475	1	250	19	1480	18	4	40	1
160C	1920	21	11610	1514	1	270	24	1630	15	2	40	1

PROJECT NO: APEX

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

FILE NO: 7-1B65S/P14

ATTENTION: SAM ZASTAVNIKOVICH

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

* TYPE -BOM SOILS * DATE: JAN 11, 1998

(VALUES IN PPM)	U	V	ZN	GA	SN	W	CR	AU-PPB	HG-PPB	BA-TOT
000N	1	64.5	113	6	1	2	22	9	50	1620
020N	1	60.1	264	2	1	1	19	6	55	1870
040N	1	72.6	265	4	1	1	24	210	40	1920
060N	1	64.9	228	5	1	2	18	7	60	2000
080N	1	65.2	120	2	1	1	19	12	65	1490
100N	1	41.9	138	1	1	1	3	14	85	1630
120N	1	68.4	218	2	1	2	24	11	55	1600
140N	1	71.3	191	3	1	2	18	8	80	1620
160N	1	72.1	177	3	1	1	23	9	65	1350
180N	1	88.1	320	2	1	2	26	6	70	2140
200N	1	71.6	395	2	1	1	25	14	60	1670
220N	1	75.0	156	2	1	1	25	12	65	1430
240N	1	79.0	153	1	1	1	24	10	75	1500
260N	1	76.0	106	1	1	1	23	17	55	1400
280N	1	72.2	131	1	1	1	25	13	70	1630
300N	1	63.0	166	1	1	1	26	11	75	1710
000NW	1	71.7	99	1	1	1	23	12	100	1530
020NW	1	83.7	148	1	1	1	27	11	145	1530
040NW	1	84.1	130	1	1	3	31	10	105	1470
060NW	1	76.0	110	1	1	1	25	12	110	1270
080NW	1	69.5	171	1	1	3	23	9	110	2100
100NW	1	71.3	121	1	1	1	17	7	90	850
120NW	1	62.2	88	1	1	1	18	8	175	1570
140NW	1	89.6	142	1	1	2	29	9	85	1820
160NW	1	79.0	129	1	1	2	24	9	105	1420
180NW	1	78.7	140	1	1	2	25	13	100	1500
200NW	1	63.1	104	1	1	2	23	9	60	1450
220NW	1	69.5	116	1	1	1	23	7	85	1600
240NW	1	65.2	123	1	1	1	20	8	80	1360
260NW	1	68.1	123	1	1	1	25	13	90	1390
280NW	1	65.4	110	1	1	1	26	4	90	1460
300NW	1	70.2	137	1	1	1	22	3	100	1650
320NW	1	76.2	123	1	1	1	28	6	110	1640
340NW	1	75.6	134	1	1	1	33	7	105	1970
360NW	1	81.3	127	1	1	1	29	9	140	1490
380NW	1	67.3	118	1	1	5	23	8	125	1800
400NW	1	62.0	132	1	1	1	21	6	130	1620
420NW	1	70.6	142	1	1	4	25	5	95	1700
440NW	1	74.0	136	1	1	4	26	7	115	2000
460NW	1	76.6	144	1	1	1	28	4	120	1800
480NW	1	81.6	178	1	1	1	26	6	140	2300
500NW	1	76.3	167	1	1	3	25	8	135	2450
520NW	1	67.4	107	1	1	1	22	5	250	1630
540NW	1	83.9	119	1	1	1	29	3	130	1700
560NW	1	83.1	151	1	1	2	25	4	145	1940
580NW	1	80.6	144	1	1	1	30	2	120	1900
600NW	1	86.9	130	2	1	1	35	7	160	1600
620NW	1	144.0	132	2	1	2	121	5	110	2340
640NW	1	81.4	157	1	1	1	28	4	115	2060
660NW	1	92.2	151	1	1	4	28	6	150	1750
680NW	1	75.7	115	1	1	2	23	8	110	1800
700NW	1	80.2	159	1	1	9	26	3	115	2350
020C	2	53.6	89	1	1	7	16	5	55	1650
040C	1	65.0	130	1	1	1	20	4	75	1830
060C	1	82.9	104	1	1	1	27	12	80	1950
080C	1	86.9	163	1	1	3	30	6	100	2070
100C	1	95.9	150	2	1	1	32	7	95	1640
120C	1	68.3	101	1	1	7	23	11	90	1620
140C	1	79.2	110	2	1	3	29	8	160	1750
160C	1	84.0	132	1	1	3	30	9	135	1790

ATTENTION: S. ZAST.

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

* TYPE ROCK GEOCHEM *

DATE: JAN 13,

(VALUES IN PPM)	AG	AL	AS	B	BA	BE	BI	CA	CD	CO	CU	FE	K
JB 1 F	2.3	2950	31	21	552	.7	3	4710	1.8	3	111	23190	2140
JB 2 F	1.2	2280	8	8	1109	.3	1	1230	1.3	2	15	11340	2270
JB 3 F	1.7	2030	6	4	1084	.3	1	470	.8	2	10	8060	2020
JB 4 F	.8	2470	5	6	696	1.0	3	1820	.3	3	6	30860	1270
JB 5 F	.2	2340	6	4	223	.3	1	420	.6	1	3	11580	1940
JB 6 F	.2	2780	4	3	1176	.4	1	470	.3	1	21	12610	2160
JB 7 F	.1	2060	7	3	3070	.3	1	170	.8	2	5	8060	2170
JB 8 F	1.4	2090	7	3	661	.2	1	230	1.6	1	9	6440	2140
JB 9 F	.2	3480	11	4	677	.2	1	580	.9	1	40	4520	2040
JB 10 F	.4	2760	7	5	606	.3	1	160	1.0	1	10	8470	2840
JB 11 F	.2	2890	6	6	171	.3	1	130	.7	1	3	9310	2560
JB 12 F	.4	3510	4	8	373	.5	1	350	1.0	1	5	15180	3050
JB 13 F	.4	19540	9	26	1139	1.8	4	2680	2.6	16	18	57140	410
JB 14 F	.1	4990	14	8	676	.2	1	700	.8	2	22	8210	2680
JB 15 F	1.3	3330	9	9	540	.9	2	230	2.0	1	13	30950	2920
JB 16 F	1.3	7030	6	23	396	.9	2	10530	1.8	5	38	30880	1930
JB 17 F	.7	2740	6	8	225	.4	1	930	.1	1	5	13110	2180
JB 18 F	.6	7810	8	9	2619	.8	1	1590	1.4	5	19	22100	930
JB 19 F	.2	1560	12	3	356	.3	1	140	.4	1	4	9840	930
JB 20 F	.4	2120	8	5	979	.4	1	230	.6	1	5	13340	2110
JB 21 F	.7	2250	8	6	917	.9	1	650	1.8	2	3	28540	2030
JB 22 F	.2	2520	8	5	665	.5	1	170	.5	1	23	14810	2300
JB 23 F	.5	180	7	1	2433	.1	1	60	.8	1	37	1440	170
JB 24 F	1.9	2150	7	5	2702	.7	1	1790	1.0	3	384	19350	1170
JB 25 F	1.1	1210	10	2	1617	.3	1	3070	26.0	3	54	10610	680
JB 26 F	.8	390	3	1	2781	.1	1	260	1.8	2	133	2330	200
JB 27 F	.4	390	4	1	2758	.1	1	330	1.1	2	57	3040	190
JB 28 F	.2	4000	9	4	1337	.2	1	500	.7	1	82	6310	2260
JB 29 F	.4	2120	8	3	1413	.5	1	480	.2	1	10	13510	1510

(VALUES IN PPM)	LI	MG	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V
JB 1 F	12	2110	236	1	170	2	970	38	9	18	1	1	10.2
JB 2 F	4	630	452	1	60	3	390	33	3	13	1	1	5.5
JB 3 F	2	340	187	1	40	4	340	118	4	17	1	2	5.1
JB 4 F	2	610	1375	1	490	4	1810	16	1	10	1	1	17.3
JB 5 F	1	270	242	1	390	4	370	8	1	9	1	1	8.0
JB 6 F	1	280	228	1	610	3	700	7	2	36	1	1	3.2
JB 7 F	1	210	162	1	80	5	170	12	2	39	1	3	4.4
JB 8 F	1	170	59	4	60	3	330	27	4	17	1	5	5.4
JB 9 F	3	180	64	3	390	5	730	8	4	12	1	5	2.9
JB 10 F	1	170	59	1	60	4	230	8	3	8	1	3	4.4
JB 11 F	2	240	283	1	60	3	210	10	2	5	1	2	4.7
JB 12 F	1	310	234	1	500	7	390	7	2	13	1	2	11.1
JB 13 F	12	21070	831	2	840	5	2330	25	2	12	1	1	89.0
JB 14 F	3	1050	162	6	640	4	840	8	7	9	1	2	6.8
JB 15 F	1	650	524	2	100	3	350	25	1	9	1	1	19.5
JB 16 F	22	9430	751	1	540	3	720	33	1	18	1	1	41.3
JB 17 F	3	710	207	1	400	4	350	8	2	11	1	2	10.5
JB 18 F	17	10820	1371	1	180	4	1300	9	2	313	1	1	34.5
JB 19 F	2	530	270	1	30	4	240	7	1	15	1	3	22.9
JB 20 F	2	340	227	1	60	6	330	12	1	21	1	3	7.6
JB 21 F	1	600	2474	1	50	2	790	16	2	11	1	1	17.7
JB 22 F	1	230	246	1	40	3	330	10	2	8	1	1	6.6
JB 23 F	2	110	92	1	10	2	30	303	1	306	1	8	1.4
JB 24 F	1	430	516	1	350	2	1870	111	1	241	1	2	21.8
JB 25 F	1	4750	706	1	80	2	810	279	2	461	1	1	8.6
JB 26 F	2	250	139	1	20	2	170	761	2	353	1	7	2.5
JB 27 F	2	170	163	1	40	2	300	240	1	317	1	6	3.8
JB 28 F	3	260	25	1	270	3	760	24	3	48	1	4	4.0
JB 29 F	4	560	298	1	310	8	320	7	3	28	1	1	5.0

COMPANY: SAM ZAST.
 PROJECT NO: APEX
 ATTENTION: S.ZAST.

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

COMPANY: SAM ZAST.
 PROJECT NO: APEX
 ATTENTION: S.ZAST.

(VALUES IN PPM)	ZN	GA	SN	W	CR	AU-PPB	HG-PPB	BA-TDT	(PPM)	660WR	900WR	920WR
JB 1 F	46	1	1	1	134	3	130	2600	AG	13.9	1.9	.7
JB 2 F	71	1	1	1	173	5	240	2920	AL	3020	2700	2420
JB 3 F	108	1	1	1	192	1	930	2700	AS	98	11	7
JB 4 F	80	1	1	2	158	2	45	1600	B	38	18	12
JB 5 F	28	1	1	1	217	3	270	1850	BA	598	232	243
JB 6 F	12	1	1	1	195	5	35	2900				
JB 7 F	38	1	1	1	214	2	125	26500	BE	.5	.5	.6
JB 8 F	62	1	1	1	166	1	445	1720	BI	2	1	1
JB 9 F	7	1	1	1	173	2	65	1950	CA	12860	2490	2010
JB 10 F	31	1	1	1	178	1	445	2260	CD	4.7	1.0	.9
JB 11 F	47	1	1	1	177	2	100	1920	CD	3	1	1
JB 12 F	37	1	1	2	271	1	310	2270				
JB 13 F	104	2	1	2	90	2	25	1700	CU	1849	121	36
JB 14 F	13	1	1	2	219	3	70	2060	FE	14820	14700	19590
JB 15 F	162	1	1	1	175	1	360	2700	K	1710	1890	1600
JB 16 F	58	1	1	1	59	1	30	690	LI	12	1	1
JB 17 F	32	1	1	1	218	2	190	2600	MG	2930	1050	630
JB 18 F	346	2	1	1	94	1	35	240000				
JB 19 F	54	1	1	1	377	2	40	430				
JB 20 F	85	1	1	1	217	1	145	3220	MN	1271	499	557
JB 21 F	84	1	1	2	173	1	25	3630	MD	2	1	1
JB 22 F	46	1	1	1	150	1	155	3200	NA	160	280	350
JB 23 F	19	1	1	1	13	2	120	550000	NI	13	15	13
JB 24 F	85	1	1	1	85	2	270	185000	P	640	270	360
JB 25 F	1897	1	1	4	47	1	4875	500000				
JB 26 F	85	1	1	1	20	1	115	425000	PB	89	23	22
JB 27 F	34	1	1	1	12	2	130	410000	SB	107	7	1
JB 28 F	10	1	1	1	163	1	25	5300	SR	32	11	11
JB 29 F	19	1	1	1	198	2	40	4750	TH	1	1	1
									U	1	1	1
									V	14.6	7.4	11.5
									ZN	143	72	116
									GA	1	1	1
									SN	1	1	1
									W	2	7	3
									CR	144	161	164
									AU-PPB	81	6	5
									HG-PPB	7500	180	190
									BA-TDT	2520	1880	1630

