

LOG NO: <i>Feb 21/91</i>	RD.
ACTION:	
FILE NO:	

**SUB-RECORDER
RECEIVED**
FEB 21 1991
 M.R. #.....\$.....
VANCOUVER, B.C.

**ASSESSMENT REPORT
ON THE
BAYVIEW/GOLDCLIFF PROPERTY**

**Skeena Mining Division, British Columbia
 NTS 103P/13W
 Latitude: 55°-58'N
 Longitude: 129°-59'W**

Prepared for
HYDER GOLD INC.
 Vancouver, B.C.

Prepared by
Ernest G. Olfert, B.Sc., FGAC
KEEWATIN ENGINEERING INC.
 Suite 800 - 900 West Hastings Street
 Vancouver, B.C.
 V6C 1E5

January 15, 1991

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,991

TABLE OF CONTENTS

	<u>Page No.</u>
SUMMARY	1
INTRODUCTION	2
Property Location, Access and Topography	2
Claim Status	2,3
Property History	3,4
GEOLOGY	4
Regional Geology	4
Property Geology	4
Mineralization	4-7
GEOCHEMISTRY	7
CONCLUSIONS AND RECOMMENDATIONS	7
REFERENCES	9

LIST OF APPENDICES

APPENDIX I	Statement of Expenditures
APPENDIX II	Statement of Qualifications
APPENDIX III	Geochemical Results - Bondar Clegg

LIST OF FIGURES & MAPS

	<u>Following Page No.</u>
Figure 1. Location of Claims	2
Figure 2. Claim Map	2
Figure 3. Regional Geology	2
Figure 4. Major Workings - Gold Cliff Area	4
Map 1. Geological/Geochemical Map	in pocket

SUMMARY

During the 1990 field season, Hyder Gold Inc. conducted exploration on the Bayview-Gold Cliff property near Stewart, British Columbia. Work carried out included prospecting, geological mapping, rock sampling and minor silt sampling. This report is a summary of the 1990 program and includes highlights from previous exploration programs.

The main features of significance to the property can be summarized as follows:

1. The property covers the geological contact between a Mesozoic Unuk River volcanic/sedimentary sequence and a Cretaceous Hyder quartz-monzonite intrusive. Intensive skarn development has occurred along the majority of the volcanic/sedimentary-intrusive contacts.
2. Most of the known mineralization is related to fault/fracture systems as well as dykes and sills evolving from the Hyder intrusive. A number of high grade narrow veins occur in the Trites zone and in the Bayview area. Chip sample R448 returned 0.319 opt (ounces per ton) Au, 28.17 opt Ag, 19.6% Pb and 2.81% Zn across 2.0 feet (0.6 m) and chip sample R1020 returned 0.285 opt Au, 15.81 opt Ag, 6.58% Pb and 6.27% Zn across 2.0 feet (0.6 m) from the above respective areas. A grab sample from another trench on the Bayview claim yielded 0.027 opt Au, 412.59 opt Ag, 33.61% Pb, 21.4% Zn. The above zones do not appear to have any tonnage potential.
3. Two prominent gossan areas of considerable dimension are visible on the property. These gossan zones are named the Argillite zone and the Granitized zone. These gossans were sampled for the possibility of outlining a low grade bulk tonnage zone. With the exception of two isolated samples from the Granitized zone, gold and silver values were insignificant (<100 ppb Au, <11 ppm Ag).
4. Areas which are recommended for follow-up are the portions of the property not covered during the 1990 field season. Potential may exist further eastward along the Hyder intrusive contact and to the north of the Granitized zone. Additional workings are believed to exist on the Prince and Prince John claims along the northeastern property boundary. Further north and away from the property, potential may also exist on the Red Bluff claims.

INTRODUCTION

This report was prepared at the request of Hyder Gold Inc. of Suite 800 - 900 West Hastings Street, Vancouver, B.C.

Exploration was carried out by Keewatin Engineering Inc. under the direction of Ron Nichols and Art Freeze. The majority of the work was conducted by the author with the help of several field assistants during the period of July 1st to September 10th, 1990. A total of 105 rock samples and 10 silt samples were collected. Helicopter support from Stewart was utilized.

Property Location, Access and Topography

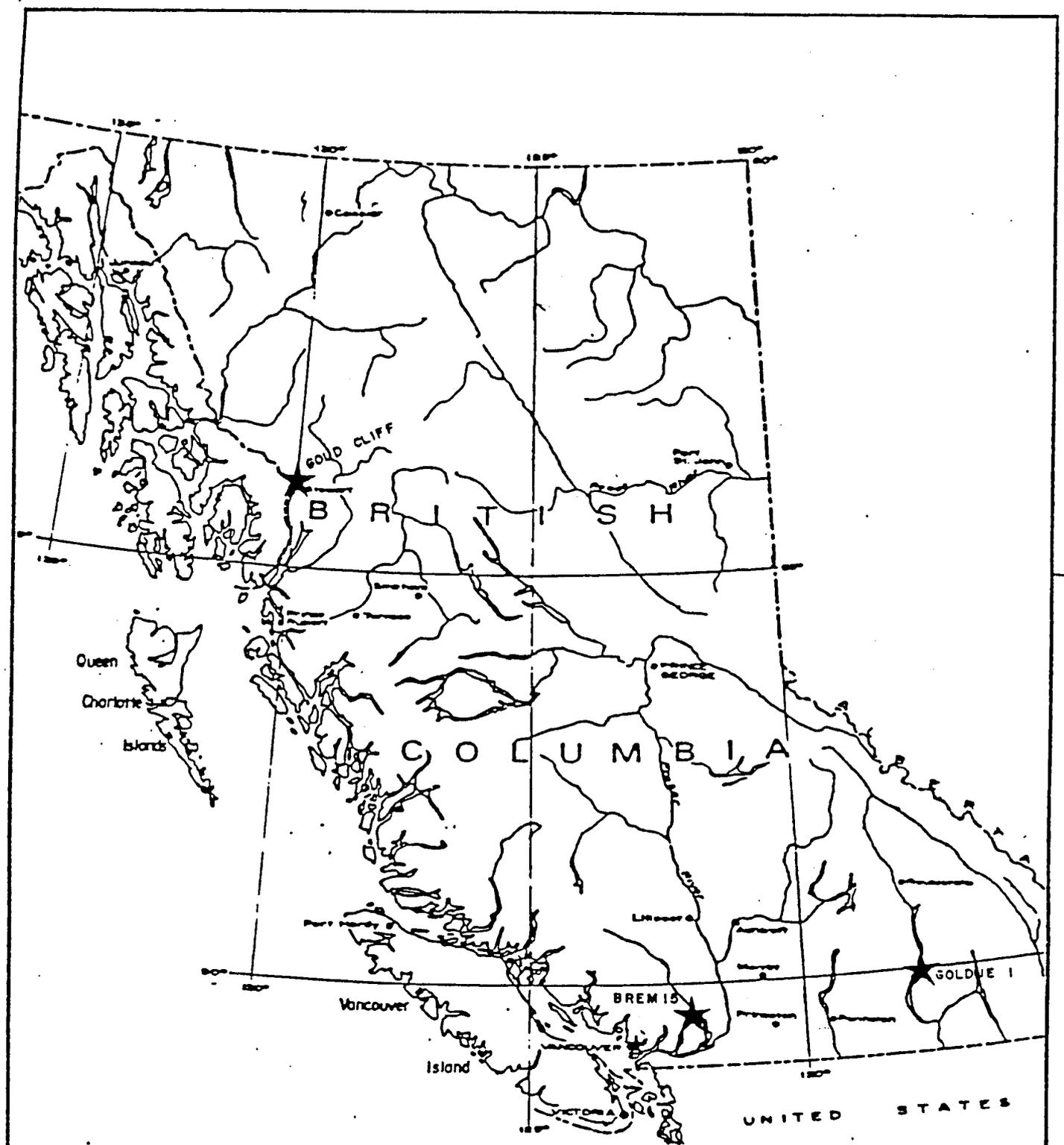
The property is located 5.0 kilometres due north of Stewart, B.C., adjacent to the Alaska border. Stewart is located at the head of the Portland Canal which is Canada's most northerly ice-free port (Figures 1 and 2).

The property is very rugged, ranging in elevation from 40 metres along the Bear River to 1,687 metres at the top of Mt. Dolly. The tree line occurs at approximately 900 metres. The area is characterized by heavy precipitation including +30.0 feet (9 m) of snow fall. Field work at higher elevations is restricted to the months of August and September.

Claim Status

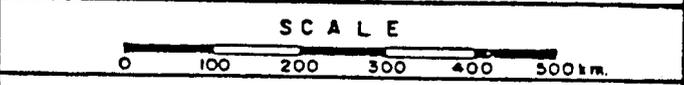
The property consists of 25 reverted crown granted mineral claims for a total of 25 units as follows (Figure 3):

	Record No.	Lot No.	No. of Units	Record Date	Expiry Date
Bay View No. 1	6278	4182	1	Jun. 16/87	Jun. 16/92
Bay View No. 2	6279	4181	1	Jun. 16/87	Jun. 16/92
Gold Cliff No. 2 Fr.	8539	4990	1	Mar. 22/90	Mar. 22/96
First Fr.	8535	5088	1	Mar. 22/90	Mar. 22/96
Mary Fr.	8536	5087	1	Mar. 22/90	Mar. 22/96
Zeal	8537	5086	1	Mar. 22/90	Mar. 22/96
Kent	8557	4182	1	Mar. 22/90	Mar. 22/96
Beth	8558	4186	1	Mar. 22/90	Mar. 22/96



HYDER GOLD INC.

FIG. 1
LOCATION OF
CLAIMS



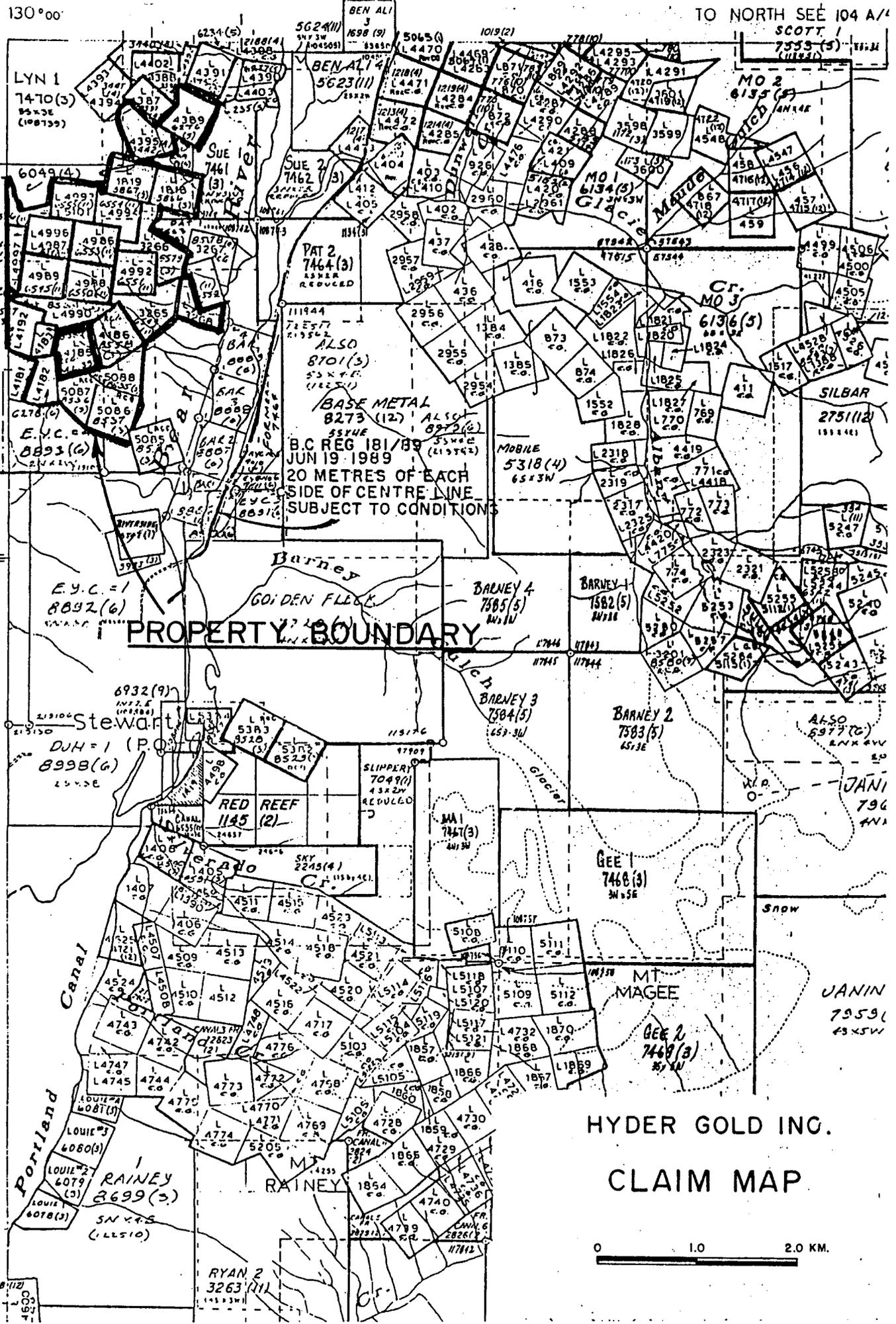
December 1990

130°00'

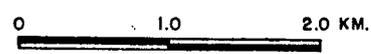
TO NORTH SEE 104 A/4

53°00'

M 103P/13W



HYDER GOLD INC.
CLAIM MAP



Claim Name	Record No.	Lot No.	No. of Units	Record Date	Expiry Date
K.P. No. 1	8560	4183	1	Mar. 22/90	Mar. 22/96
Cliff Fr.	8579	3266	1	Mar. 22/90	Mar. 22/96
Gold Fraction	6544	4996	1	Nov. 27/87	Nov. 27/96
Gold Cliff No. 1	6545	4989	1	Nov. 27/87	Nov. 27/96
Gold Cliff No. 1 Fr.	6546	4997	1	Nov. 27/87	Nov. 27/96
Gold Cliff No. 2	6547	4987	1	Nov. 27/87	Nov. 27/96
Gold Cliff No. 3 Fr.	6549	3265	1	Nov. 27/87	Nov. 27/96
Gold Cliff No. 4	6550	4988	1	Nov. 27/87	Nov. 27/96
Gold Cliff No. 5	6551	4992	1	Nov. 27/87	Nov. 27/96
Gold Cliff No. 6	6552	3268	1	Nov. 27/87	Nov. 27/96
Jerry Dog	6553	4986	1	Nov. 27/87	Nov. 27/96
Barney	6554	4994	1	Nov. 27/87	Nov. 27/96
Tom	6555	4993	1	Nov. 27/87	Nov. 27/96
Tom Fr.	6556	5101	1	Nov. 27/87	Nov. 27/96
Prince	5866	1818	1	Mar. 09/87	Mar. 09/97
Prince No. 2	5867	1819	1	Mar. 09/87	Mar. 09/97
Prince John No. 3	6276	4389	1	May 29/87	May 29/97

Property History

The history of the Bayview-Gold Cliff claims dates back to the early 1920's. The original Bayview Mining Co. made a small high-grade shipment in 1925, but not until 1928 did development accelerate, when the United Empire Gold and Silver Mining Co. consolidated the various properties. Following continued exploration, major expenditures were made in 1933 and 1934 for construction of buildings and installation of a tramline. This program culminated in production shipments of 169 tons between 1934 and 1936.

Exploration in the form of prospecting, rock sampling of the old workings, and surveying was conducted during 1981 and 1983 by Bayview Resources Ltd. During 1983, some packsack drilling and 457 metres of BQ diamond drilling was completed on the Trites zone of the old United Empire Mine workings. Some high-grade ore was mined from the upper Bayview pits.

Total recorded production statistics are as follows:

Property	Year	Tons	Au oz	Ag oz	Pb (lbs)	Zn (lbs)
Bayview	1925	10	1	154.0	2,970	3,870
United Empire	1934-36	169	10	4,418	23,332	16,900
Bayview Resources	1983	10.83	0.68	2,289	3,899	3,682

GEOLOGY

Regional Geology

The region is partially underlain by volcano-sedimentary units belonging to the Hazelton Assemblage of Lower Jurassic age (Figure 2). These units have been folded, faulted and intruded by quartz-monzonite and granodiorite plutons of Cretaceous and Tertiary ages. The major mineral occurrences in the Stewart area are hosted within the Lower Jurassic, Lower Unuk River Formation which underlies a major portion of the property.

Property Geology

The southern portion of the property covers the southwest trending intrusive contact between the volcano-sedimentary sequence of the Unuk River Formation to the north and the Hyder quartz-monzonite to the south. Numerous sills and dykes trend north-south and are considered to be offshoots of the Hyder intrusions. Sedimentary units including argillites and greywackes, occur mainly along the intrusive contact and are often hornfelsed and rusty on weathered surfaces. Andesitic volcanics are more abundant further to the north. Epidote, chlorite, hematite skarn has developed on the north end of Mt. Dolly near the Alaska border where extensive dyke swarms occur.

Mineralization

Although small hand pits can be found at many locations, the majority of the old workings occur in the area of the Trites zone of the United Empire mine workings as well as in the Bayview area (Figure 4, Map 1). These areas have been explored for their high grade vein potential. Several large gossan zones, namely the Argillite gossan zone and the Granitized gossan zone consist of disseminated pyrite \pm pyrrhotite and were examined for low grade precious metal bulk tonnage potential. Further details are as follows:

Bayview Zone

a) **Upper Bayview:** The main zone of interest is the lower pit from which approximately 10 tons of high grade Pb, Zn, Ag, Au ore was mined in 1983. The pit walls have sluffed covering a reported northwest striking mineralized vein approximately 2.0 feet wide and dipping to the southeast at 20 degrees. Chip sampling in 1925 returned the following values:

Width	oz/t Au	oz/t Ag	% Pb	% Zn
2.0' (0.61 m)	0.02	224.5	16.6	14.7
2.0' (0.61 m)	0.06	253.2	20.3	20.2
0.5' (0.15 m)	0.02	111.0	14.5	27.7

Chip sampling in 1980 by Bayview Resources returned similar values. Mining of high grade ore in 1983 yielded 10.83 tons of 0.063 opt Au, 211.35 opt Ag, 18% Pb and 17% Zn. A muck sample collected from the pit this year returned 0.027 opt Au, 412.59 opt Ag, 33.61% Pb, 21.4% Zn. This zone does not appear to extend more than about 100.0 feet (30 m) along strike.

b) **Lower Bayview:** Workings consist of several pits and one short adit on two narrow east-west trending shear veins near the main intrusive contact. The 1925 production of 10 tons reported from this area contained 0.1 opt Au, 15.39 opt Ag, 14.85% Pb, 19.35% Zn. A sample taken on the lower shear vein in 1990 returned 0.285 opt Au, 15.85 opt Ag, 6.58% Pb, 6.27% Zn across 2.0 feet (0.61 m). Mineralization is restricted to less than 20.0 feet (6 m) along strike.

Trites Zone (see Figure 4 and Map 1)

The main feature in this area is a complex, steeply west dipping shear/fracture zone extending approximately 500 metres northwest from the quartz-monzonite intrusive contact. The northern extension of this structure is intruded by a narrow unmineralized granodiorite dyke. Mineralization consists of pyrite, sphalerite and galena occurring as discontinuous lenses, stringers and disseminations.

This zone has been extensively explored in the past with many pits, open cuts and underground workings along the entire length of the structure. Between 1934 and 1936 United Empire Mines established a production drift and constructed a cable tram-line to the Bear River valley in attempts to mine this zone. Only 169 tons of 0.059 opt Au, 26.14 opt Ag, 6.9% Pb and 5% Zn were ever produced.

Results from the sampling and drilling program in the early 1980's by Bayview Resources, and sampling completed by the author in 1990 are as follows:

- a) Brindel Cut: A high grade northwest trending Zn/Pb vein returned 0.077 opt Au, 21.64 opt Ag, 3.29% Pb, 34.12% Zn across 13 inches (0.33 m) (R485, 1990). The vein extends northwest for approximately 75.0 feet (25 m) and may not occur on the main Trites structure but possibly parallels it.
- b) Anita Pit: A high grade Pb/Zn vein exposed in an open cut assayed 2.0 feet (0.61 m) of 0.319 opt Au, 28.17 opt Ag, 19.6% Pb and 2.81% Zn (R448-1990). The underground production mentioned above was from this vein. Packsack drilling in 1983 confirmed this vein to be 2.0 feet (0.61 m) wide averaging 0.04 opt Au and 28 opt Ag, however drill holes 4 and 5 indicate that the metal values decrease and narrow with depth. (The best drill intersection was 0.6 feet (0.18 m) of 0.013 opt Au and 4.95 opt Ag).
- c) James Pit: The best value from sampling is a grab containing 0.084 opt Au, 35.2 opt Ag and 4.82% Pb (R418-1980). Drill holes 6 and 7 in 1983 did not intersect any appreciable mineralization.
- d) North of the James Pit area: Many small pits have exposed insignificant sulphide mineralization. Drill holes 1, 2, and 3 tested the zone in the Upper Adit area. The best hole returned 1.9 feet (0.58 m) of 0.011 opt Au 8.91 opt Ag, 1.34% Pb and 1.32% Zn.
- e) Argillite Gossan Zone: This is a rusty steeply dipping stratiform zone trending east-west, across Mt. Dolly, for approximately 900 metres. Mineralization consists of 5.0 percent disseminated pyrite and pyrrhotite. There were no base or precious metal values detected by rock sampling.

f) **Granitized Zone:** In the Gold Cliff area, a zone of pervasive feldspar recrystallization with 5.0 percent pyrite trends north from the Hyder granodiorite contact and parallels a number of intrusive dykes. The zone is approximately 100 metres wide and 2 kilometres in length and is marked by gossanous weathering along cliff and creek exposures. Approximately 35 rock samples were taken from surface exposures and from the Riva Adit during 1990. Two samples were anomalous: R1028, a chip sample across a siliceous shear, returned 18 inches (0.46 m) of 0.02 opt Au, 10.73 opt Ag, 0.47% Pb and 0.33% Zn; R1030 a grab sample, returned 0.122 opt Au and 0.04 opt Ag. These anomalous values are isolated as was revealed by additional sampling. Sampling during 1980 in the production drift of the United Empire Mine, also returned negative results, where the drift crossed the Granitized zone.

g) **Other Showings:** A 50.0 foot (15 m) long pyritic vein outcrops in the andesitic volcanic package northeast of Mt. Dolly. Sample R914 (1990) returned 0.222 opt Au and 0.2 opt Ag across a 1.0 foot (0.3 m) zone of semi-massive pyrite. The virtual 100 percent exposure in the area negates the significance of this vein.

The Dupra quartz vein on Mt. Dolly, adjacent to the border, was sampled. Results are negative with only traces of malachite staining observed on the immediate contact of the uppermost bull quartz vein.

GEOCHEMISTRY

A total of 105 rock samples and 10 silt samples were collected during this program. All samples were analyzed by Bondar-Clegg and Company Ltd. Analytical procedures used include the 30 gram fire assay AA method for Au; the ICP HNO_3 -HCL hot extractable method for Ag, Cu, Pb, Zn, As, Sb, Mo and the HNO_3 -HCL- SnSO_4 cold vapour AA method for Hg. Values above 1,000 ppb Au; 50 ppm Ag; 10,000 ppm Pb and 20,000 ppm Zn were fire assayed. All sample locations have been plotted on Map 1 or Figure 4 with accompanying tables of results.

Silt sample geochemical values generally are elevated in Cu and Au and partially elevated in Zn and As. This may be partially explained by the steep cascading streams and the nature of the coarse detrital component of the samples resulting in a placering effect. Sample R1103 at the north end of the Granitized zone contains 885 ppb Au, and is deemed anomalous.

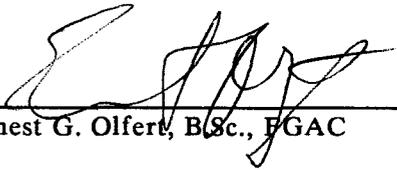
Rock samples collected were both selected grab samples and chip samples. Sample widths are associated with the rock chip samples.

CONCLUSIONS AND RECOMMENDATIONS

1. All of the mineralization with the exception of the massive sulphide vein showing on the northeast flank of Mt. Dolly is related to the Hyder quartz monzonite intrusion or related off-shoot dykes.
2. The high grade veins on the Bayview claims and the Trites zone in the Gold Cliff area are too limited in size to be of any economic potential.
3. The Argillite gossan and the Granitized zone, although pyrite/pyrrhotite mineralized, do not appear to carry any significant precious or base metal values.
4. Minor follow-up work is recommended at two locations in the Gold Cliff area: (a) 50-100 metres west of the Trites adit between 920 - 1,000 metres elevation where mineralized float was found in 1983 but not investigated in 1990; (b) the north end of the Granitized zone where a silt sample returned 885 ppb Au.
5. The east and northeast parts of the property have not been investigated but some old workings are believed to exist in these areas and should be investigated, particularly in the area of the Prince John claim where low grade Cu, Au is reported.

Respectfully submitted,

KEEWATIN ENGINEERING INC.



Ernest G. Olfert, B.Sc., FGAC

REFERENCES

- B.C. Ministry of Mines Annual Reports, 1919, 1920, 1922, 1924, 1925, 1927, 1929, 1930, 1933, 1934, 1936.
- Dickson, M.P., P.Eng. (1984): Report on the Bayview-Gold Cliff Property, Skeena Mining Division, Stewart, B.C.; Adtec Mining Consultants Inc.
- G.S.C. Memoirs 159 and 175.
- Grove, Edward W. (1971): Bulletin No. 58 Geology and Mineral Deposits of the Stewart Area, B.C.
- Harris, C.R., P.Eng. (1980): Report on the Bayview-Gold Cliff Properties.
- Harris, C.R., P.Eng. (1981): Bayview-Gold Cliff Claim Group.
- Krueckl, George P. (1983): Data Review and 1983 Field Program Report on Bayview, Gold Cliff Claims, Skeena Mining Division, Stewart, B.C.
- Renshaw, R.E., P.Eng. (1969): Geophysical Report on the Athena Mines Property, Stewart, B.C.

APPENDIX 1

Statement of Expenditures

STATEMENT OF EXPENDITURES

Personnel

R. Nichols	1.00 days @ \$425/day	\$ 425.00
A. Freeze	7.75 days @ \$425/day	3,293.75
E. Olfert	11.00 days @ \$400/day	4,440.00
R. Hoffman	3.00 days @ \$310/day	930.00
D. O'Brien	8.50 days @ \$250/day	2,125.00
C. Plante	2.00 days @ \$250/day	500.00
D. Swendiman	3.00 days @ \$210/day	<u>630.00</u>
		\$12,343.75
<u>Accommodation & Field Gear Rental</u>	36.25 days @ \$75/day	2,718.75
<u>Helicopter (including fuel)</u>	6.1 hours @ \$770/hour	4,697.00
<u>Vehicle Rental</u>		1,500.00
<u>Sample Analysis</u>	115 samples @ \$15.70/sample	1,805.50
<u>Expense Accounts</u>		657.56
<u>Freight</u>		250.00
<u>Maps, Telephone and Miscellaneous Supplies</u>		500.00
<u>Report Writing</u>		<u>2,000.00</u>
TOTAL EXPENDITURES:		<u>\$26,472.56</u>

APPENDIX II

Statement of Qualifications

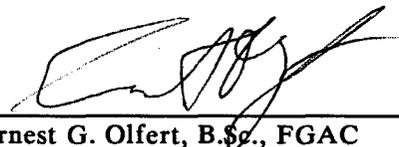
STATEMENT OF QUALIFICATIONS

I, ERNEST G. OLFERT, of Keewatin Engineering Inc. with a business address of #800 - 900 West Hastings Street, Vancouver, B.C. do hereby certify that:

1. I am a Consulting Geologist registered with the Geological Association of Canada as a Fellow. I am also registered as a Professional Geologist with the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
2. I hold a B.Sc. (Honours) Degree in Geology (1970) from the University of Calgary, Alberta.
3. I have practised my profession as a geologist continuously since 1970, having worked in Canada, Mexico, Greenland and Europe. I have worked for Cominco from 1970 - 1983 and for a number of small public companies from 1983 to 1990 before joining Keewatin Engineering in June 1990.
4. I have based this report mainly on field work conducted by Keewatin Engineering Inc. during the summer of 1990 and partly from reports by previous workers.
5. I have no interest in the property described in this report and will receive only standard consulting fees for the preparation of this report.

Dated at Vancouver, British Columbia this 15th day of January, 1991.

Respectfully submitted,



Ernest G. Olfert, B.Sc., FGAC

APPENDIX III

Geochemical Results - Bondar Clegg

Bondar-Clegg & Company Ltd.
 130 Pemberton Ave.
 North Vancouver, B.C.
 V7P 2R5
 (604) 985-0681 Telex 04-352667



Certificate
 of Analysis

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: V90-02177.6 (COMPLETE)

REFERENCE INFO: SHIPMENT #18

CLIENT: KEEWATIN ENGINEERING INC.
 PROJECT: HYDER GOLD

SUBMITTED BY: BOOMER
 DATE PRINTED: 20-NOV-90

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au 30g Gold 30 grams		5 PPB	Fire-Assay	Fire Assay AA
2	Ag Silver		0.2 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
3	Cu Copper		1 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
4	Pb Lead		2 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
5	Zn Zinc		1 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
6	As Arsenic		5 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
7	Sb Antimony		5 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
8	Mo Molybdenum		1 PPM	HN03-HCl Hot Extr.	Ind. Coupled Plasma
9	Hg Mercury		0.010 PPM	HN03-HCl-SnSO4	Cold Vapour AA

REPORT COPIES TO: KEEWATIN ENGINEERING INC.
 BOOMER AND CO.

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667



Certificate of Analysis

A DIVISION OF INSTITUTE OF INSPECTION & TESTING SERVICES

REPORT: V90-02177.6 (COMPLETE)

REFERENCE INFO: SHIPMENT #18

CLIENT: KEEWATIN ENGINEERING INC.

SUBMITTED BY: BOOMER

KEEWATIN ENGINEERING INC.

BAYVIEW AREA - SILT SAMPLE GEOCHEMISTRY RESULTS
BONDAR-CLEGG, VANCOUVER
TLT, DECEMBER 1990

SAMPLE #	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Mo ppm	Hg ppm
BAY L1	13	1	135	13	82	-5	7	2	0.033
BAY L2	133	1.2	128	11	65	-5	11	3	0.012
BAY L3	135	1.5	152	11	77	-5	5	3	0.019
BAY L4	31	1.1	139	21	121	139	10	4	0.096
BAY L5	239	1.2	218	17	92	-5	8	4	0.037
BAY L6	134	6.1	153	91	185	236	-5	8	0.064
BAY L7	200	8.1	663	58	102	120	7	5	0.108
90-BAY 1102	154	1.2	158	36	172	177	-5	2	0.117
90-BAY 1103	885	6.2	185	78	190	358	-5	8	0.065
90-BAY 1105	36	1	109	5	92	38	-5	2	-0.01

Bondar-Clegg & Company Ltd.
 130 Pemberton Ave.
 North Vancouver, B.C.
 V7P 2R5
 (604) 985-0681 Telex 04-352667



Certificate
 of Analysis

A DIVISION OF INSTITUTE OF INSPECTION & TESTING SERVICES

REPORT: V90-02177.6 (COMPLETE)

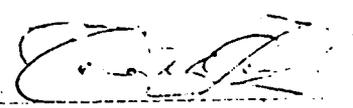
REFERENCE INFO: SHIPMENT #18

CLIENT: KEEWATIN ENGINEERING INC.
 PROJECT: HYDER GOLD

SUBMITTED BY: BOOMER
 DATE PRINTED: 20-NOV-90

BAYVIEW AREA GEOCHEMISTRY
 SAMPLE NUMBER AREA

ROCK	Au ppb	Au opt	Ag ppm	Ag opt	Cu ppm	Cu %	Pb ppm	Pb %	Zn ppm	Zn %	As ppm	Sb ppm	Mo ppm	Hg ppm
90 00 144 R-439	1530	0.045	50	90.49	677		10000	10.02	20000	14.27	1026	2000	8	1.173
90 00 144 R-440	110		25.2		168		222		465		449	9	3	-0.01
90 00 144 R-441	1922	0.027	50	412.59	7130		10000	33.61	20000	21.4	643	2000	-1	1.324
90 00 144 R-442	-5		10.4		94		124		240		5	-5	8	0.013
90 00 144 R-443	10		50	2.5	144		2172		1145		40	84	3	-0.01
90 00 144 R-444	96		34.5		111		999		1753		20	10	3	0.039
90 00 144 R-445	102		50	1.84	219		1587		5335		12	20	3	0.061
90 00 144 R-446	335		50	9.74	283		10000	1.08	12686	1.42	42	302	2	0.113
90 00 144 R-447	-5		2.5		-1		49		50		10	5	16	-0.01
90 00 144 R-448	8903	0.319	50	28.17	1182		10000	19.6	19173	2.81	48	700	13	0.366
90 00 144 R-449	283		31.4		532		1827		179		36	10	7	0.025
90 00 144 R-450	28		4.3		-1		590		87		11	-5	3	-0.01
90 00 144 R-484	237		1.8		-1		31		39		8	6	5	-0.01
90 00 144 R-485	2641	0.077	50	21.64	179		10000	3.29	20000	34.12	344	564	-1	1.924
90 00 144 R-486	125		50	2.55	839		1526		5575		67	30	6	0.111
90 00 144 R-487	33		3.1		5		64		346		13	-5	3	-0.01
90 00 144 R-488	-5		1		7		25		66		9	-5	4	0.024
90 00 144 R-489	-5		2.1		47		23		95		-5	-5	3	0.031
90 00 144 R-490	820		50	11.37	2400		8018		3507		28	203	5	0.039
90 00 144 R-574	-5		0.2		-1		11		94		14	-5	3	0.017
90 00 144 R-575	26		0.9		391		25		67		194	-5	13	0.028
90 00 144 R-899	24		6.5		117		71		290		56	-5	11	-0.01
90 00 144 R-910	309		50	14.35	547		10000	1.25	20000	5.74	241	297	-1	0.024
90 00 144 R-911	11		3.9		77		265		378		-5	6	1	-0.01
90 00 144 R-912	-5		2		191		76		350		13	-5	2	0.022
90 00 144 R-913	7		1.3		110		28		118		-5	-5	14	0.015
90 00 144 R-914	6767	0.222	6.5		34		10		73		105	-5	10	0.15
90 00 144 R-915	265		1.1		64		18		55		50	5	9	0.023
90 00 144 R-916	24		0.7		102		10		37		9	-5	10	0.056
90 00 144 R-917	72		1		129		13		74		102	-5	3	0.028
90 00 144 R-918	6		-0.2		66		10		62		17	-5	3	0.033
90 00 144 R-919	30		0.7		184		9		22		31	5	3	-0.01
90 00 144 R-920	37		0.9		282		13		58		-5	-5	6	0.033
90 00 144 R-921	6		-0.2		62		11		61		21	7	3	-0.01
90 00 144 R-922	14		0.5		101		17		146		88	-5	11	-0.01
90 00 144 R-923	127		8		3600		26		117		-5	-5	3	0.048
90 00 144 R-924	421		10.6		4089		22		23		173	22	6	0.061
90 00 144 R-968	111		0.6		4		6		11		217	7	4	-0.01
90 00 144 R-969	187		1.8		32		15		30		186	10	13	0.07
90 00 144 R-970	16		0.6		98		34		-1		-5	-5	5	-0.01
90 00 144 R-971	15		-0.2		41		7		17		17	8	15	0.052
90 00 144 R-972	16		8.7		3615		11		191		39	10	7	0.058
90 00 144 R-973	6		8.5		2197		9		279		21	7	34	0.024
90 00 144 R-974	38		0.4		48		7		13		46	10	3	-0.01
90 00 144 R-975	202		3		342		381		47		50	13	9	0.017
90 00 144 R-1001	24		0.9		24		981		323		19	8	6	0.074
90 00 144 R-1002	17		0.6		187		198		188		-5	-5	4	-0.01
90 00 144 R-1003	18		1.2		17		391		102		22	-5	3	0.05
90 00 144 R-1004	12		-0.2		7		94		59		24	-5	3	-0.01
90 00 144 R-1005	10		-0.2		24		148		65		20	7	3	-0.01


 Registered Assayer, Province of British Columbia

Bondar-Clegg & Company Ltd.
 130 Pemberton Ave.
 North Vancouver, B.C.
 V7P 2R5
 (604) 985-0681 Telex 04-352667



Certificate
 of Analysis

A DIVISION OF BRITISH COLUMBIA TESTING SERVICES

REPORT: V90-02177.6 (COMPLETE)

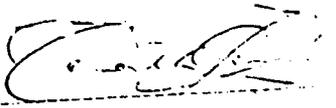
REFERENCE INFO: SHIPMENT #18

CLIENT: KEENWATIN ENGINEERING INC.
 PROJECT: HYDER GOLD

SUBMITTED BY: BOOMER
 DATE PRINTED: 20-NOV-90

BAYVIEW AREA GEOCHEMISTRY
 SAMPLE NUMBER AREA
 ROCK

	Au ppb	Au opt	Ag ppm	Ag opt	Cu ppm	Cu %	Pb ppm	Pb %	Zn ppm	Zn %	As ppm	Sb ppm	Mo ppm	Hg ppm
90 00 144 R-1006	156		50	2.42	20000	5.97	158		474		366	105	12	0.208
90 00 144 R-1007	27		0.7		246		45		15		25	9	4	0.031
90 00 144 R-1009	14		1.1		668		17		37		23	7	4	0.017
90 00 144 R-1010	7		-0.2		22		38		37		30	7	2	0.015
90 00 144 R-1019	18		0.7		91		18		98		16	-5	4	0.052
90 00 144 R 1020	9430	0.285	50	15.81	7201		10000	6.58	20000	6.27	1460	489	19	0.376
90 00 144 R 1021	29		3.6		145		213		349		478	11	3	0.063
90 00 144 R 1022	42		2.2		481		116		174		39	-5	3	0.033
90 00 144 R 1023	22		0.6		121		16		45		-5	-5	1	-0.01
90 00 144 R 1024	12		1.7		88		12		38		-5	6	1	0.051
90 00 144 R 1025	8		1.2		105		19		53		16	-5	4	-0.01
90 00 144 R 1026	8		0.8		15		19		40		-5	-5	2	0.059
90 00 144 R 1027	37		3.3		6		14		33		9	9	4	0.034
90 00 144 R 1028	752	0.02	50	10.73	313		4698		3326		73	78	4	0.134
90 00 144 R 1029	35		4		18		50		50		-5	-5	3	0.01
90 00 144 R 1030	4187		1.5		10		16		26		-5	5	1	0.063
90 00 144 R1069	-5		0.3		11		-2		100		-5	-5	-1	-0.01
90 00 144 R1070	72		3.3		18		412		1176		189	-5	2	0.087
90 00 144 R1071	7		1.2		61		7		54		-5	-5	-1	0.114
90 00 144 R1072	-5		0.7		49		7		68		36	6	-1	-0.01
90 00 144 R1073	15		1.1		42		2		61		14	9	-1	-0.01
90 00 144 R1074	30		1.3		95		14		47		-5	6	-1	-0.01
90 00 144 R1075	22		0.9		67		-2		59		-5	-5	7	-0.01
90 00 144 R1076	18		0.9		225		3		43		-5	-5	-1	-0.01
90 00 144 R1077	-5		0.4		45		2		44		-5	-5	3	-0.01
90 00 144 R1078	32		-0.2		130		27		26		153	10	19	0.024
90 00 144 R1079	30		0.8		64		34		31		7	5	-1	-0.01
90 00 144 R1080	62		3.5		232		13		22		55	6	-1	-0.01
90 00 144 R1081	22		0.7		5		4		10		-5	-5	2	-0.01
90 00 144 R1082	12		0.6		22		6		19		-5	-5	1	-0.01
90 00 144 R1083	-5		0.3		11		4		30		-5	-5	-1	-0.01
90 00 144 R1084	24		1.2		55		11		28		19	6	2	-0.01
90 00 144 R1085	43		0.7		28		2		49		7	-5	-1	-0.01
90 00 144 R1086	39		1.5		9		7		9		14	-5	4	-0.01
90 BH 144 R-1104	150		2.2		857		3		51		-5	-5	2	-0.01
90 DH 144 R-1277	8		1.1		23		12		41		15	-5	3	0.058
90 BH 144 R-1350	8		1.7		26		13		32		15	7	7	1.039
90 BH 144 R-1351	8		1		11		16		40		21	6	3	2.269
90 BH 144 R-1352	28		0.3		44		22		63		-5	9	9	0.709
90 BH 144 R-1353	40		0.6		22		24		69		-5	10	5	1.244
90 BH 144 R-1354	9		1.6		13		39		234		24	5	2	0.959
90 BH 144 R-1355	11		1.4		12		8		35		17	-5	4	1.115
90 BH 144 R-1356	9		1.4		16		21		67		19	-5	2	3.139
90 BH 144 R-1357	7		1.3		21		11		45		14	7	2	5.01
90 BH 144 R-1358	10		1.7		26		10		35		13	-5	3	3.517
90 BH 144 R-1359	11		1.1		14		10		45		7	-5	2	1.498
90 BH 144 R-1360	10		1.3		15		5		34		-5	5	3	2.025
90 BH 144 R-1361	11		0.9		19		7		35		6	-5	2	3.154
90 BH 144 R-1362	11		1		12		5		37		14	-5	4	4.4
90 BH 144 R-1363	10		0.8		11		6		43		-5	6	2	2.301


 Registered Assayer, Province of British Columbia

Bondar-Clegg & Company Ltd.
 130 Pemberton Ave.
 North Vancouver, B.C.
 V7P 2R5
 (604) 985-0681 Telex 04-352667



Certificate of Analysis

A DIVISION OF INDIANPE INSPECTION & TESTING SERVICES

REPORT: V90-02177.6 (COMPLETE)

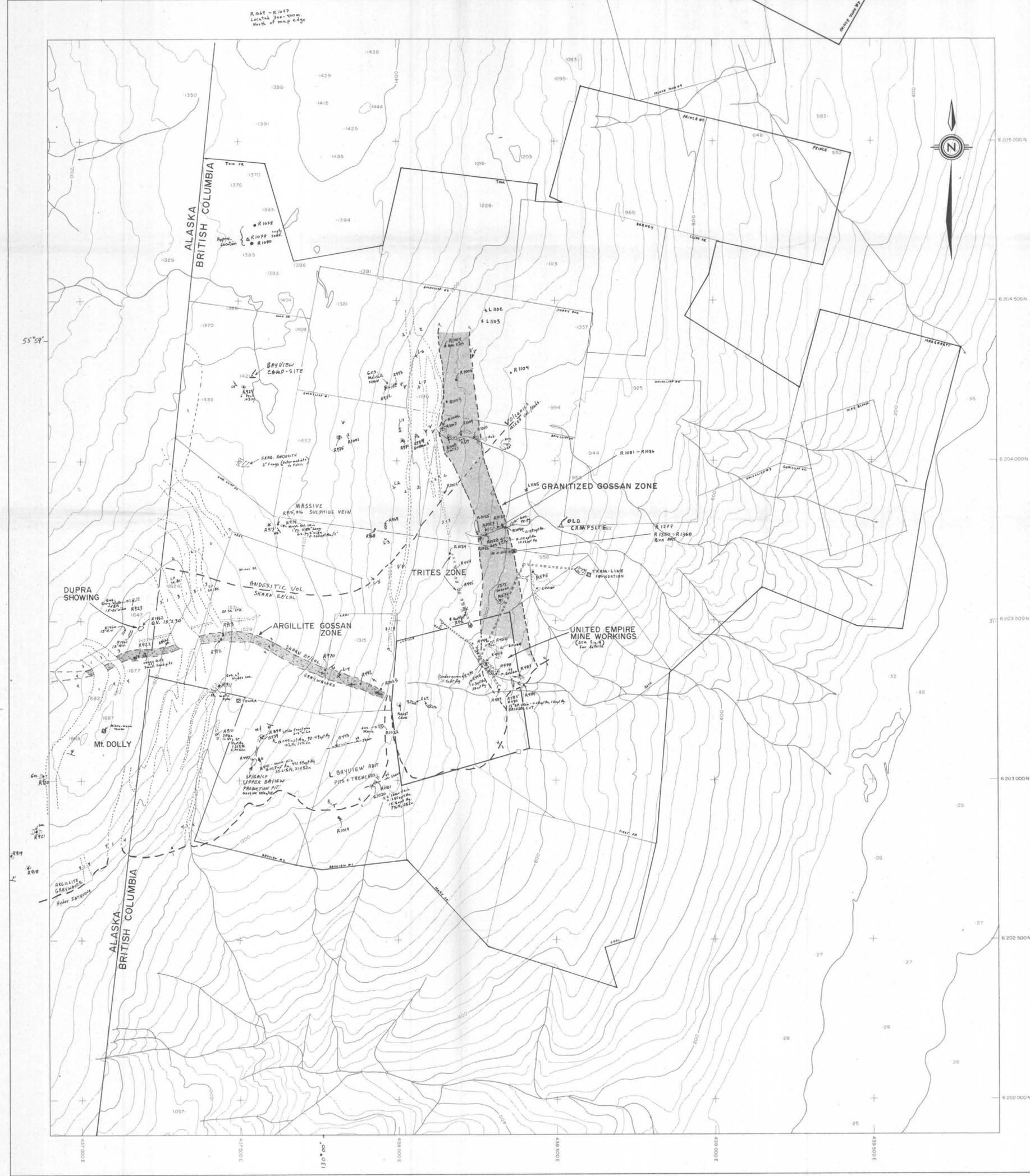
REFERENCE INFO: SHIPMENT #18

CLIENT: KEEMATIN ENGINEERING INC.
 PROJECT: HYDER GOLD

SUBMITTED BY: BOOMER
 DATE PRINTED: 20-NOV-90

BAYVIEW AREA GEOCHEMISTRY

SAMPLE NUMBER	AREA	Au ppb	Au opt	Ag ppm	Ag opt	Cu ppm	Cu %	Pb ppm	Pb %	Zn ppm	Zn %	As ppm	Sb ppm	Mo ppm	Hg ppm
90 BH 144 R-1364	ROCK	13		1.1		8		4		30		12	-5	3	1.76
90 BH 144 R-1365		16		9.3		22		584		976		19	11	3	0.812
90 BH 144 R-1366		17		4		16		164		277		9	-5	3	1.081
90 BH 144 R-1367		72		4.3		23		89		121		32	9	5	0.848
90 BH 144 R-1368		33		1.5		11		33		85		8	-5	3	0.143
90 00 142 R-1460		64		1.8		256		7		92		97	-5	-1	0.014
90 00 142 R-1461		38		-0.2		20		3		13		18	-5	-1	0.026
90 00 142 R-1462		120		3		873		3		219		18	6	-1	-0.01



ABBREVIATIONS

AD	- adit	LM	- limestone
ADJ	- adjacent	M	- massive
AL	- altered	MAL	- malachite
AND	- andesite	O CUT	- open cut
AR	- argillite	O/C	- outcrop
AS	- arsenopyrite	PO	- pyroclastic
BE	- breccia	PP	- pyrite
BK	- breccia	Q	- quartz
CAL	- calcite	REP S	- representative sample
CAR	- carbonate	RY	- rhyolite
CH	- chert	SED	- sedimentary
CL	- chlorite	SH	- shaled
COM	- composite	SHF	- shaft
COB	- cobaltite	SK	- skarn
CP	- copper	SL	- sill
D	- dyke	SM	- semi-massive
DC	- dacite	SP	- sphalerite
DSE	- disseminated	SR	- sericite
EP	- epidote	ST	- stope
F	- fault	STK	- stockwork
FL	- fluorite	SUL	- sulphide
FR	- fracture	TCC	- Trans Canada
GA	- galena	TF	- tail
GOS	- gossan	THD	- thalassite
GRAN	- granitoid	TR	- trace
GRW	- greywacke	TRM	- track
HG	- high grade	UG	- underground
HN	- hornblende	V	- vein
INT	- intrusive	VOL	- volcanic
JAR	- jarosite	W	- wall
LE	- leucite	WEATH	- weathered
		Z	- Zone

GOLDCLIFF AREA GEOCHEMISTRY

SAMPLE NUMBER	AREA	LOCATION	DESCRIPTION	As	Au	Ag	Cu	Pb	Zn	Fe	Ca	Mg	Na	K	Si	Al	SO ₄	CO ₂	Loss
90 00 144-8-339	U	U 10115/10	U CUT 10115/10	1530	0.065	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-340	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-341	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-342	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-343	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-344	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-345	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-346	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-347	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-348	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-349	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-350	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-351	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-352	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-353	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-354	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-355	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-356	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-357	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-358	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-359	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			
90 00 144-8-360	U	U 10115/10	U CUT 10115/10	1530	0.07	50	96.49	477	10000	10.02	20000	14.27	1026	2000	8	1.175			

GOLDCLIFF AREA GEOCHEMISTRY

SAMPLE NUMBER	AREA	LOCATION	DESCRIPTION	As	Au	Ag	Cu	Pb	Zn	Fe	Ca	Mg	Na	K	Si	Al	SO ₄	CO ₂	Loss
90 00 144-8-1007	U	U 10115/10	U CUT 10115/10	27	0.7	266	42	15	25	9	4.033								
90 00 144-8-1008	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1009	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1010	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1011	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1012	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1013	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1014	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1015	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1016	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1017	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1018	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1019	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1020	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1021	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1022	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1023	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1024	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1025	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1026	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1027	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1028	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1029	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1030	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1031	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1032	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1033	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1034	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1035	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1036	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1037	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1038	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1039	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								
90 00 144-8-1040	U	U 10115/10	U CUT 10115/10	15	0.2	82	3	10	10	10	0.017								

LEGEND

CRETACEOUS / TERTIARY

1 Hyder Quartz Monzonite / Granodiorite stocks and dykes.

MESOZOIC (UNUK RIVER FORMATION)

2 Andesite volcanics (minor skarn).

3 Mixed volcanics / sediments. Usually intense skarning Ep/Chl + Hem.

4 Argillite / Greywackes, minor Tuff, very minor Limestone. Hornfelsed and/or skarned near Intrusive contact.

SYMBOLS

Major gossan.

Local gossan.

Fit, trench, adit.

Geological contact.

Hyder Dyke contact.

Elevation contours in metres.

Bedding strike & dip.

Structure strike & dip (vein, fracture etc.).

Zinc metal mass.

Rock sample location, float.

Silt sample location.

REVISION ENGINEERING INC.

BAYVIEW AREA - GOLD CLIFF GEOCHEMISTRY RESULTS

BAYVIEW AREA - GOLD CLIFF GEOCHEMISTRY RESULTS

BAYVIEW AREA - GOLD CLIFF GEOCHEMISTRY RESULTS

SAMPLE #	As	Au	Ag	Cu	Pb	Zn	Fe	Ca	Mg	Na	K	Si	Al	SO ₄	CO ₂	Loss
BAY 11	33	1	100	13	10	10	10	10	10	10	10	10	10	10	10	10
BAY 12	33	1	100	13	10	10	10	10	10	10	10	10	10	10	10	10
BAY 13	33	1	100	13	10	10	10	10	10	10	10	10	10	10	10	10
BAY 14	33	1	100	13	10	10	10	10	10	10	10	10	10	10	10	10
BAY 15	33	1	100	13	10	10	10	10	10	10	10	10	10	10	10	10
BAY 16	33	1	100	13	10	10	10	10	10	1						