DIAMOND DRILLING ASSESSMENT REPORT

SIB 1-16, 20-39

POLO 1-13 CLAIMS

SKEENA MINING DIVISION
BRITISH COLUMBIA
CANADA

N.T.S. 104B / 9,10
Latitude 56° 35' N
Longitude 103° 29' W

- for -

AMERICAN FIBRE CORPORATION
#701 - 475 Howe Street
Vancouver, B.C.

- and -

SILVER BUTTE RESOURCES LTD.
#1201 - 900 West Hastings Street
Vancouver, B.C.

Prepared By

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April 15, 1991

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SUMMARY

The SIB-Polo property is located in the Unuk River region, 80 km north of Stewart and 290 km northwest of Smithers, B.C. Geographic coordinates are latitude 56° 35' North by longitude 103° 29' West (N.T.S. 104B/9W, 10E).

The property comprises the SIB 1-16, 20-39 claims, jointly owned by American Fibre Corporation and Silver Butte Resources Ltd., and the (Old) Polo 1-8 and (New) Polo 1-13 claims, wholly owned by American Fibre Corporation. The 36 two-post SIB claims and 21 modified grid Polo claims total 394 units.

In September-October 1990, first pass, widespaced diamond drilling was performed along the length of the SIB claims. In total, 3982 m were drilled in 26 BQTK size holes.

Two drill holes intersected significant zones of gold-silver mineralization in two subparallel, stratigraphically distinct mudstone-exhalite beds within felsic volcanic rocks of the Mount Dilworth Formation. Hole 90-30 intersected 14.30 m grading 14.43 grams gold per tonne and 1,059.84 grams silver per tonne in the Lulu zone and hole 90-34 intersected 11.65 m grading 2.33 grams gold per tonne and 25.71 grams silver per tonne in the Marguerite zone.

Follow-up diamond drilling of these two zones is recommended.

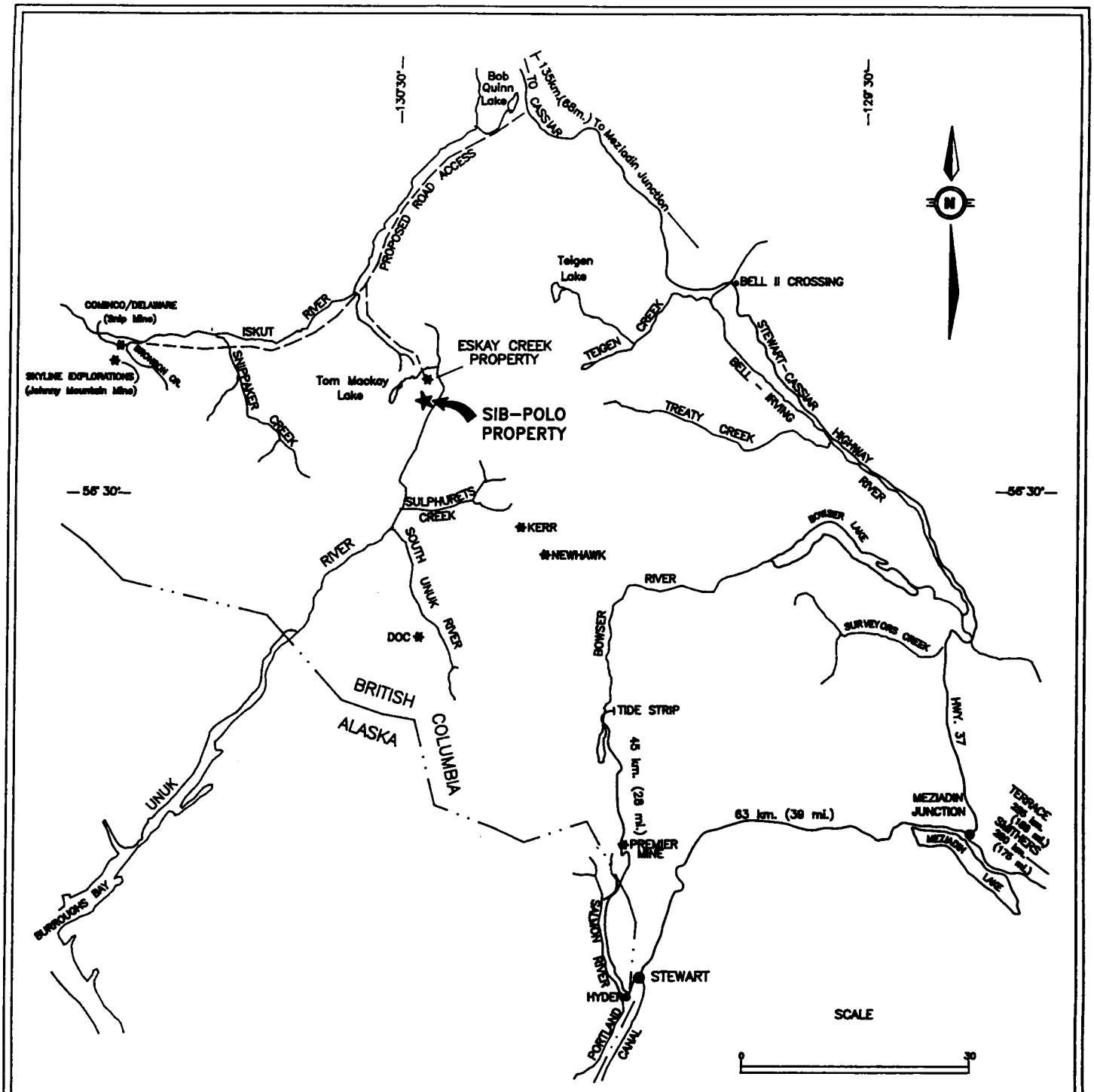
INTRODUCTION

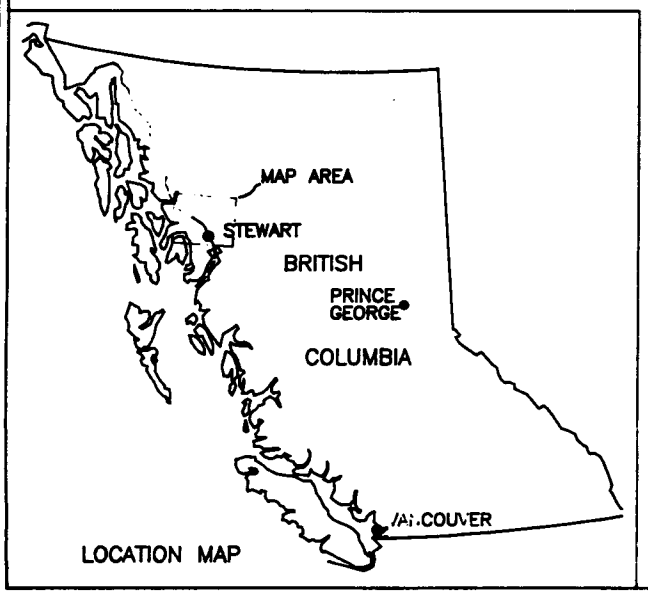
This report documents the diamond drilling program undertaken on the SIB-Polo property during the period September 1 to December 16, 1990. In total, 26 BQTK size holes totalling 3982 m were drilled.

LOCATION AND ACCESS

The SIB and Polo claims are located at latitude 56° 35' North and longitude 130° 29' West, in the Skeena Mining Division approximately 80 km north of Stewart, British Columbia (Figure 1). Access to the property is from Smithers, which has twice daily jet service from Vancouver. From Smithers, supplies and personnel can move by vehicle to the posts of Bell II or Bob Quinn on the Stewart-Cassiar highway. From these posts, helicopter access traverses about 45 km of mountainous terrain to the property, travel time being approximately 20 minutes. The alternative is to fly by fixed wing aircraft to the Bronson air strip, site of the Cominco Snip gold mine, and thence via helicopter to the property, a distance of 30 km.

The claims straddle the Prout Plateau south of Tom Mackay Lake and cross the South Unuk River. Elevations range from less than 300 m along the river to more than 1,300 m at the top of the plateau. Vegetation is characterized by mature to stunted subalpine northern coniferous forest. The local climate is typified by short, cool, wet summers and long moderate winters with heavy snow accumulations.





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REBAGLIATI GEOLOGICAL CONSULTING LTD

SIB-POLO CLAIMS

SKEENA M.D., B.C.

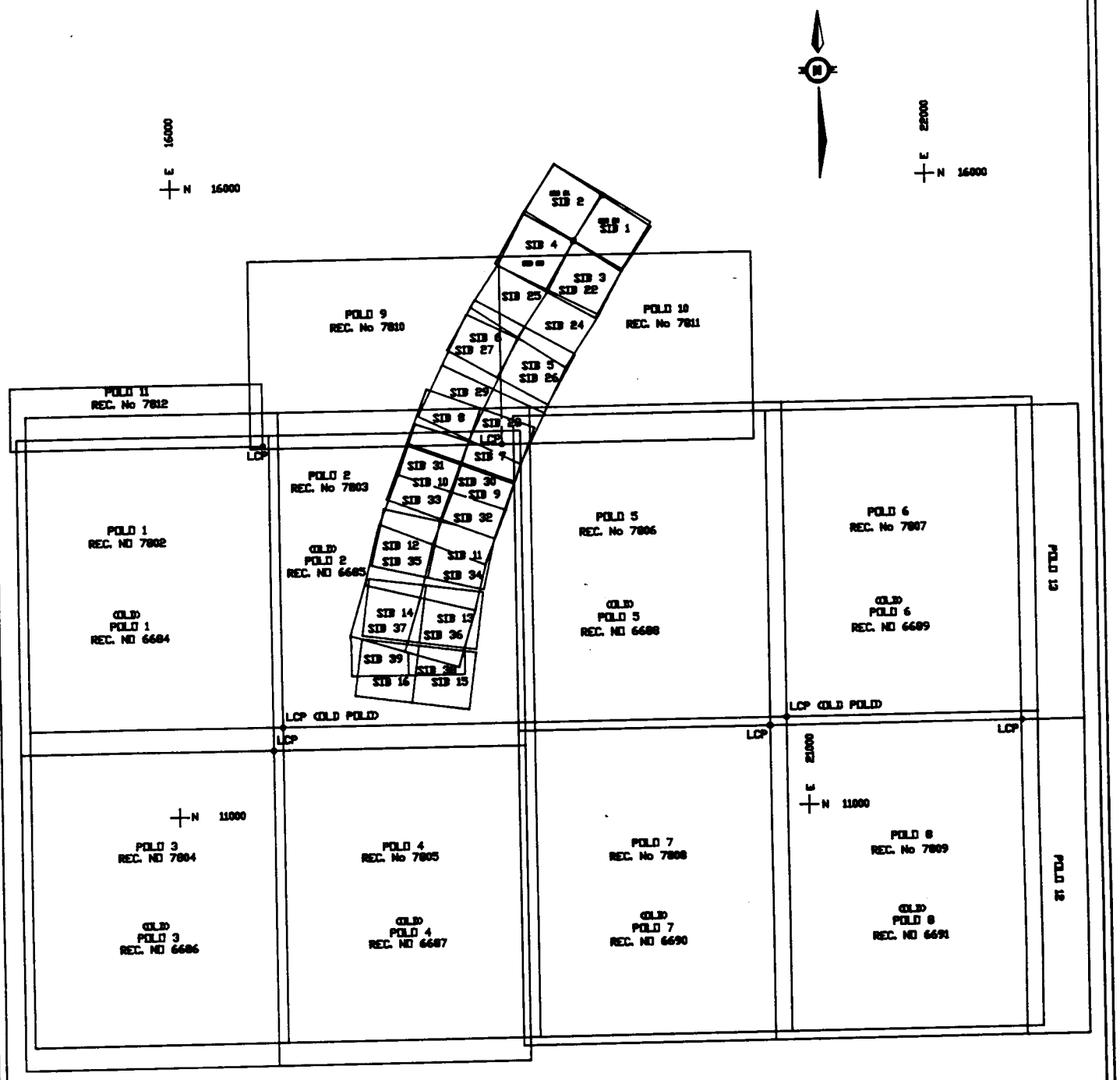
LOCATION MAP

SCALE: AS SHOWN	DRAWN BY: ProComp GeoDraft Ltd.	FILE: SPAREA.DWG	
DATE: MAR. 1991	NTS: 104B/9W,10E	PAGE: 1	

CLAIMS

The property consists of 36 two-post claims and 21 modified grid claims totalling 394 units (Figure 2).

Initial and final posts for SIB 1-16, 20-39 and legal corner posts for (Old) Polo 5-8 and (New) Polo 1-11 claims have been surveyed. However, the (Old) Polo 1-4 and (New) Polo 12 and 13 have not been surveyed, therefore, the writer cannot verify the complete configuration of the claims as depicted on Figure 2.



SCALE

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METRES

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SIB – POLO PROPERTY

SKEENA M.D., B.C.

CLAIM MAP

SCALE: AS SHOWN	DRAWN BY: ProComp GeoDraft Ltd.	FILE: ALCL.DWG	
DATE: MAR. 91	JOB: 104B/9W0.K.	FIGURE: 2	

The SIB and Polo claims are situated in the Skeena Mining Division. Essential claim data for the SIB claims which are jointly held by American Fibre Corporation and Silver Butte Resources Ltd. are as follows:

Claim Name	Record No.	No. of Units	Expiry Date
SIB 1	37223	1	31 May 2001*
SIB 2	37224	1	31 May 2001
SIB 3	37225	1	31 May 2001
SIB 4	37226	1	31 May 2001
SIB 5	37227	1	31 May 2001
SIB 6	37228	1	31 May 2001
SIB 7	37229	1	31 May 2001
SIB 8	37230	1	31 May 2001
SIB 9	37231	1	31 May 2001
SIB 10	37232	1	31 May 2001
SIB 11	37233	1	31 May 2001
SIB 12	37234	1	31 May 2001
SIB 13	37235	1	31 May 2001
SIB 14	37236	1	31 May 2001
SIB 15	37237	1	31 May 2001
SIB 16	37238	1	31 May 2001
SIB 20	7650	1	29 June 2001
SIB 21	7651	1	29 June 2001
SIB 22	7652	1	29 June 2001
SIB 23	7653	1	29 June 2001
SIB 24	7654	1	29 June 2001
SIB 25	7655	1	29 June 2001
SIB 26	7656	1	29 June 2001
SIB 27	7657	1	29 June 2001
SIB 28	7658	1	29 June 2001
SIB 29	7659	1	29 June 2001
SIB 30	7660	1	29 June 2001
SIB 31	7661	1	29 June 2001
SIB 32	7662	1	29 June 2001
SIB 33	7663	1	29 June 2001
SIB 34	7664	1	29 June 2001
SIB 35	7665	1	29 June 2001
SIB 36	7666	1	29 June 2001
SIB 37	7667	1	29 June 2001
SIB 38	7668	1	30 June 2001
SIB 39	7669	1	30 June 2001

* Subject to acceptance of this assessment report.

The essential claim data for the Polo claims, which are held by American Fibre Corporation, are as follows:

Claim Name	Record No.	No. of Units	Expiry Date
(Old) Polo 1	6684	20	18 May 2001*
Polo 2	6685	20	18 May 2001
Polo 3	6686	20	18 May 2001
Polo 4	6687	20	18 May 2001
Polo 5	6688	20	18 May 2001
Polo 6	6689	20	18 May 2001
Polo 7	6690	20	18 May 2001
Polo 8	6691	20	18 May 2001
(New) Polo 1	7802	20	05 Sept 2001
Polo 2	7803	20	05 Sept 2001
Polo 3	7804	20	05 Sept 2001
Polo 4	7805	20	05 Sept 2001
Polo 5	7806	20	04 Sept 2001
Polo 6	7807	20	04 Sept 2001
Polo 7	7808	20	04 Sept 2001
Polo 8	7809	20	04 Sept 2001
Polo 9	7810	12	30 Aug 2001
Polo 10	7811	12	31 Aug 2001
Polo 11	7812	04	04 Sept 2001
Polo 12	8036	05	15 Sept 2001
Polo 13	8035	05	15 Sept 2001

* Subject to the acceptance of this assessment report.

EXPLORATION HISTORY

Between 1935 and 1938, the Mackay Syndicate reached an agreement with Premier Mining Company Ltd., whereupon a good trail was established between Tom Mackay Lake and the headwaters of Eskay Creek. An assay lab was set up and extensive trenching was carried out on both the Tok-Kay and SIB claims. Ten diamond drill holes were put down on the Tok-Kay ground in the area of the Eskay #5, #21 and #22 zones.

From 1980 to 1983, Ryan Exploration Ltd. (U.S. Borax) carried out soil and rock geochemical surveys on the SIB claims while mapping and drilling on the Tok-Kay claims.

Recent exploration on the adjoining Tok-Kay claims has resulted in the discovery of a major gold-silver deposit. The Eskay 21 Zones have been traced over 1400 m along strike, 250 m down dip and range from 5 m to 45 m wide. Combined current geologic reserves are in the order of 5.0 million tonnes grading 23.97 grams (g)/tonne gold (0.67 oz/ton), 820 g/tonne silver (22.92 oz/ton) and several percent combined lead, zinc and copper.

This mineralization is hosted by northeast-southwest striking stratigraphy comprising altered volcanic and sedimentary units that are traceable through the SIB claims.

In 1988, preliminary orientation soil sampling, ground magnetometer and VLF-EM surveys were performed on the SIB claims.

During 1989, exploration on the SIB claims comprised 1180 soil geochemical samples, 144 rock chip samples, 2.5 km of orientation induced polarization-resistivity surveying and 1840 m of diamond drilling. Rock chip sampling and diamond drilling returned gold concentrations of up to 21.94 g/tonne across 5.00 m and 8.64 g/tonne over 1.77 m, respectively (Cann 1989).

REGIONAL GEOLOGY

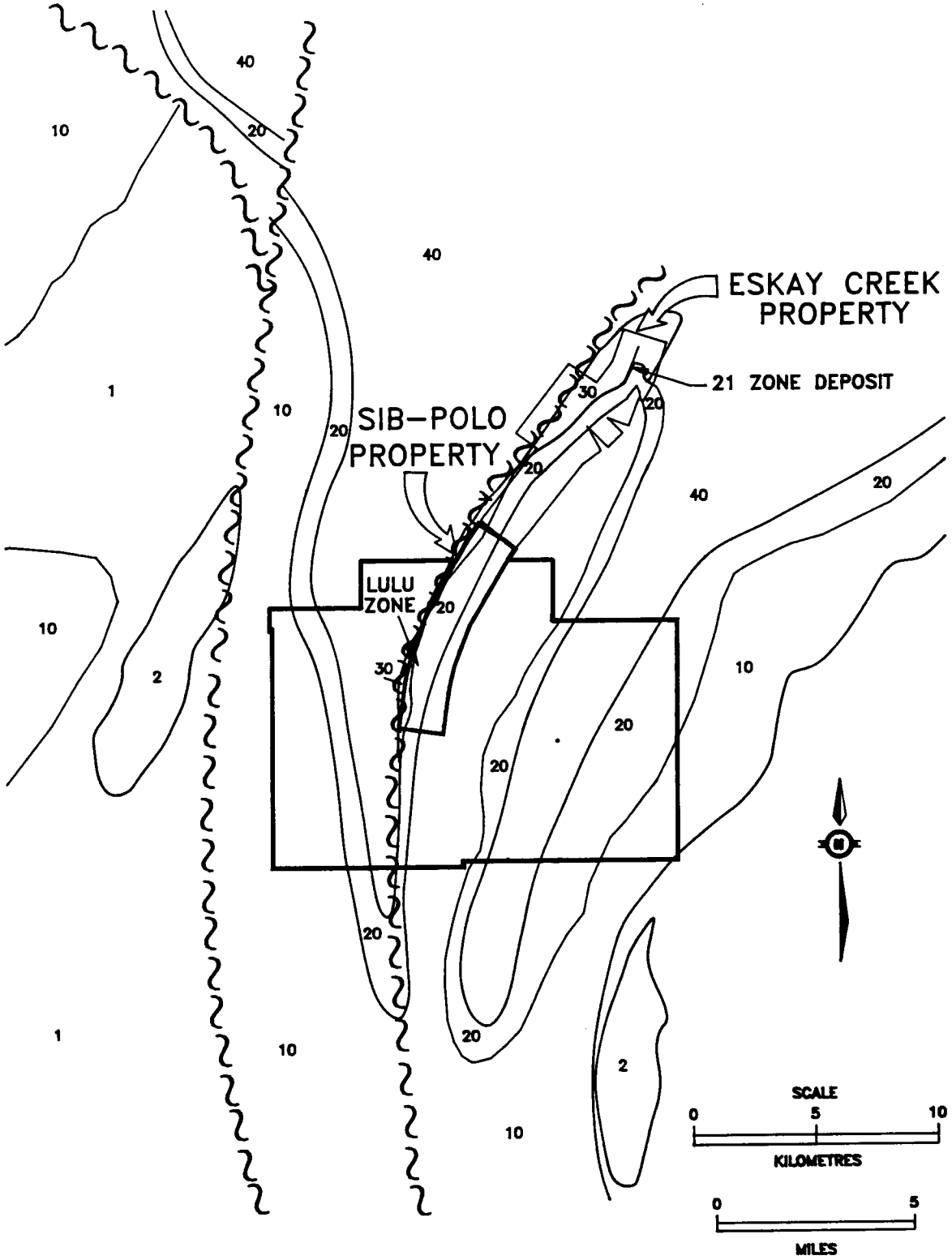
The SIB-Polo property lies along the western margin of the Intermontaine Tectonic belt, within Stikinia. Anderson (1989) has defined the regional stratigraphic framework for this part of the Stikinia to consist of four tectonostratigraphic assemblages bounded by unconformities:

- Palaeozoic Stikine assemblage
- Triassic to Jurassic volcanic plutonic arc complexes
- Middle and Upper Jurassic Bowser overlap assemblages
- Tertiary Coast plutonic complex (Britton et al., 1989)

Bedrock in the area consists of a more than 5000 m thick succession of Upper Triassic to Middle Jurassic volcano-sedimentary arc-complex lithologies underlain by Permian and older arc and shelf sequences and overlain by Middle and Upper Jurassic marine-basin sediments. Rocks have been folded, faulted and weakly metamorphosed, mainly during Cretaceous time. Dioritic to granite rocks that outcrop east and west of the Prout Plateau represent at least four intrusive episodes spanning Triassic to Tertiary time. Remnants of Pleistocene to recent basaltic eruptions are preserved locally. (Britton et al., 1989)

LOCAL GEOLOGY

The SIB-Polo property is centered on the west limb of a 10 km long, 3 km wide north-northeast trending anticline comprised of Betty Creek and Mount Dilworth Formation volcano-sedimentary arc complex lithologies. These are overlain by and/or are in fault contact with synclinally folded Salmon River Formation and Bowser Lake Group marine-basin sediments (Figure 3). The Betty Creek and Mount Dilworth Formation stratigraphy is continuous along the length of both the SIB claims and the adjoining Eskay Creek property to the north-northeast. The 21 Zone deposits, located on the Eskay Creek



LEGEND

PERIOD		FORMATION		
M.Jur		40	Ashman	BOWSER LAKE
		30	Salmon River	SPATSIZI
190 Ma		20	Mount Dilworth	
L.Jur		10	Betty Creek	HAZELTON
210 Ma		2	Unuk River	
U Trl		1		STUHINI

6 Km

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SIB–POLO PROPERTY

SKEENA M.D., B.C.

REGIONAL GEOLOGY

SCALE: AS SHOWN	DRAWN BY: PreComp GeoDraft Ltd.	FILE: PSBREG.DWG
DATE: MAR. 91	REF: 1048/SW,10E	FIGURE: 3

property approximately 4.0 km along strike to the northeast of the SIB claim boundary, are hosted by carbonaceous mudstones that occur at the base of the andesitic pillow volcanics and flows of the Salmon River Formation which immediately overlie the Mount Dilworth Formation felsic volcanics. The deposits are comprised of highly variable base-metal and precious-metal bearing mineral assemblages. Current reserve estimates for the Eskay 21A and 21B deposits include 5.04 million tonnes grading 22.97 g/tonne gold and 820.12 g/tonne silver (Blackwell 1991 M.E.G.).

Stratigraphy

The geological stratigraphy on the SIB-Polo property in the area of the SIB claims is as follows:

Unit 10 Betty Creek Formation (undivided)

Unit 11 - Volcano-sedimentary strata (Betty Creek Formation) occurs along the eastern side of the SIB claims and consists of predominantly tan weathering, pale green andesitic plagioclase-porphyritic lapilli tuff and agglomerate with lesser amounts of interbedded crystal tuff and black mudstone. The unit is 400 m to 600 m thick. Mudstone interbeds range from 1 m to 10 m thick and are gradational from interstitial matrix in lapilli tuff, to a matrix that supports lapilli clasts, to massive mudstone. The mudstone interbeds are common along the upper, western edge of the unit.

Unit 12 - Mackay Mudstone Sedimentary Unit (Betty Creek Formation) comprises sedimentary-epiclastic rocks interbedded with minor tuffaceous and volcanic fragmental sub units. The unit ranges from 50 m to 300 m in thickness and includes interbedded mudstone, sandstone, conglomerate, and ash and crystal tuff. Individual beds are up to 25 m thick.

Unit 13 - Andesitic Conglomerate (Betty Creek Formation) occurs as a 500 m long and up to 100 m wide lens along the upper margin of Unit 11. This unit comprises up to 1 m diameter (0.15 m average) rounded and angular porphyritic andesite clasts and appears to be a transitional lithology from the volcanic rocks stratigraphically below to the overlying sediments.

Unit 20 Mount Dilworth Formation (undivided)

Unit 21 - Felsic Volcanic Unit (Mount Dilworth Formation) occurs along the western half of the SIB claims, ranging in width from 120 m to greater than 400 m. The unit comprises massive, banded and brecciated grey to white cherty-felsic rock and includes several interbeds of what looks like mudstone (Unit 22). The felsic rock, which is generally hard and competent, forms ridges, knolls and cliffs, and outcrops more readily than do other units.

The specific origin of the Unit 21 protolith is uncertain. At its base, many beds appear to be comprised of "felsic" lapilli tuffs with a siliceous matrix. Up-section, the volcanic component diminishes and the matrix becomes more chert-like until the unit becomes essentially a chert or chert breccia.

Unit 22 - Mudstones (Mount Dilworth Formation) are black, variably siliceous, carbonaceous mudstones up to 20 m thick that occur as interbeds in Unit 21.

Unit 30 Salmon River Formation (undivided)

Unit 31 - Upper Sedimentary Unit (Salmon River Formation) occurs along the western edge of the SIB claims. In the northwest, the unit comprises interbedded black chert, carbonaceous mudstone and siltstone and local carbonaceous felsic breccia which overlie Unit 21 to the east. In the southwest, Unit 31 comprises rhythmically banded greywacke and siltstone which is in fault contact with Unit 21.

Unit 32 - Granodiorite Dyke/Sills are confined to the northwest end of the SIB claims where they occur subparallel to stratigraphy within Unit 21 in similar stratigraphic positions to the Unit 22 mudstone interbeds. The Unit 32 dykes or sills are up to 25 m wide, up to 300 m long and comprise grey to grey-green aphanitic to augite feldspar porphyritic granodiorite. The unit is commonly amygdaloidal and pyritic and locally brecciated with a carbonate matrix.

Unit 40 - Bowser Lake Group (undivided) occur in the northwest of the property in fault contact, possibly along the Argillite Creek fault, with underlying Unit 31. Bowser sediments comprise moderate northwest-dipping siltstone, sandstone and conglomerate.

DIAMOND DRILLING

Between September 5 and October 17, 1990, twenty-six thin wall BQTK diamond drill holes, numbered 90-16 to 90-41 and totalling 3,981.85 m, were drilled by J.T. Thomas Diamond Drilling Ltd. using a JTT 900 hydraulic machine. Casing was left in all holes except hole 90-35. The holes are located on SIB claims 1, 2, 5 to 10, 12, 14, 16, 20, 21, 26 to 31, 33, 35, 37 to 39, (Old) Polo 2, (New) Polo 2, 9 and 10.

All core was geologically logged and sampled. Logging included systematic staining for determining potassium-feldspar content. The core was sampled in 2.0 m intervals where unaltered, and sampled in one metre intervals or less where altered and sulphide-bearing. Intervals containing one or more of quartz veins, quartz vein breccia, base metal sulphides and/or visible gold were split by cutting with a diamond saw. Core samples were shipped to Min-En Laboratories Ltd. for analysis. Sample pulps were prepared in Smithers and shipped to Vancouver for 31 element ICP geochemical analysis and gold fire-geochemical analysis.

Samples containing greater than 1000 parts per billion gold were subsequently fire assayed for gold utilizing one assay ton samples. Analytical procedures are detailed in Appendix A. Core from the 1989 and 1990 drill programs is stored on the property near grid coordinate 101+00N, 98+00E.

Drill logs, and analytical results follow in Appendix B.

The 1990 diamond drilling program was largely directed towards systematically testing for Eskay-type massive sulphide deposits hosted in the Mackay mudstone (Unit 12); and for Johnny Mountain-Bruce Jack Lake-type vein and/or disseminated-stockwork precious metal deposits associated with the underlying zone of intense potassium metasomatism. Sedimentary exhalative units interbedded with Unit 21 felsic strata of the Mount Dilworth Formation were tested by two holes. Diamond drill hole data from 1990 summarize as follows:

HIGHLIGHTS OF 1990 DRILLING

Hole	Interval metre (m)	Length m (feet)	Gold grams (g) g/tonne (oz/ton)	Silver g/tonne (oz/ton)	Lead %	Zinc %
90-16	95.00 - 98.00	3.00 (9.84)	1.17 (0.034)			0.12
	98.00 - 101.00	3.00 (9.84)	3.12 (0.091)			0.12
	98.00 - 98.90	0.90 (2.95)	4.29 (0.125)			
	111.00 - 113.62	2.02 (6.63)	1.75 (0.051)			
90-17	119.00 - 120.00	1.00 (3.28)	0.34 (0.010)	9.60 (0.28)	0.55	0.53
	143.00 - 144.00	1.00 (3.28)	0.21 (0.006)	7.89 (0.23)	0.62	1.83
90-18	42.00 - 43.00	1.00 (3.28)	0.41 (0.012)	9.94 (0.29)	0.67	0.72
	47.00 - 50.00	3.00 (9.84)	0.55 (0.016)			0.11
90-19	47.00 - 49.00	2.00 (6.56)	0.41 (0.012)	7.54 (0.22)	0.41	0.54
	85.00 - 91.00	6.00 (19.69)	0.72 (0.021)			
	97.00 - 99.00	2.00 (6.56)	0.45 (0.013)			
	184.00 - 186.00	2.00 (6.56)	0.62 (0.018)			
90-20	1.35 - 2.25	0.90 (2.95)	1.17 (0.034)		0.39	0.20
	19.82 - 20.39	0.57 (1.87)	0.48 (0.014)			0.18
	26.10 - 27.94	1.84 (6.04)	0.51 (0.015)			
	117.21 - 122.11	4.90 (16.08)	0.34 (0.010)	6.51 (0.19)	0.39	0.45
	163.32 - 163.98	0.66 (2.17)	0.38 (0.011)			
	178.70 - 181.63	2.93 (9.61)	0.51 (0.015)			
	184.67 - 185.67	1.00 (3.28)	0.41 (0.012)			
	193.74 - 194.84	1.10 (3.61)	0.41 (0.012)			
	202.95 - 211.00	8.05 (26.41)	0.38 (0.011)			
90-21	25.50 - 31.00	4.50 (14.76)	0.38 (0.011)			
	32.00 - 33.00	1.00 (3.28)	2.78 (0.081)			
	36.00 - 37.00	1.00 (3.28)	0.93 (0.027)			
	55.75 - 57.75	2.00 (6.56)	0.48 (0.014)			
	144.00 - 146.00	2.00 (6.56)	0.51 (0.015)			
90-22	102.00 - 105.00	3.00 (9.84)	0.48 (0.014)			
90-23	102.72 - 103.58	0.86 (2.82)	0.17 (0.005)	5.14 (0.15)	0.38	0.23
	104.70 - 105.00	0.30 (0.98)	0.17 (0.005)	8.57 (0.25)	0.56	1.00
90-24	23.77 - 26.00	2.23 (7.32)	0.38 (0.011)			
90-25	36.00 - 39.00	3.00 (9.84)	0.45 (0.013)			
	58.00 - 61.00	3.00 (9.84)	0.41 (0.012)			
90-26	48.00 - 50.50	2.50 (8.20)	0.48 (0.014)			
	51.50 - 59.10	7.60 (24.93)	0.55 (0.016)			
	61.00 - 62.00	1.00 (3.28)	0.48 (0.014)			
90-27	3.57 - 10.00	6.43 (21.10)	0.55 (0.016)	6.51 (0.19)		
90-28	24.00 - 30.00	6.00 (19.69)	1.27 (0.037)			
	45.00 - 46.00	1.00 (3.28)	0.55 (0.016)	11.66 (0.34)	0.11	0.18

Hole	Interval metre (m)	Length m (feet)	Gold grams (g) g/tonne (oz/ton)	Silver g/tonne (oz/ton)	Lead %	Zinc %
90-29	65.30 - 65.80	0.50 (1.64)	0.34 (0.010)			
	66.30 - 66.80	0.50 (1.64)	0.41 (0.012)			
	69.80 - 70.30	0.50 (1.64)	0.51 (0.015)			
	70.80 - 72.54	1.74 (5.71)	0.38 (0.011)	6.86 (0.20)	0.41	0.29
90-30	52.20 - 57.70	5.50 (18.04)	0.17 (0.005)	4.35 (0.127)		
	57.70 - 58.91	1.21 (3.97)	14.33 (0.418)	70.63 (2.060)		
	58.91 - 61.41	2.50 (8.20)	4.15 (0.121)	173.97 (5.074)		
	61.41 - 66.50	5.09 (16.70)	29.79 (0.869)	1,722.65 (50.244)		
	66.50 - 69.50	3.00 (9.84)	1.75 (0.051)	201.02 (5.863)		
	69.50 - 72.00	2.50 (8.20)	8.71 (0.254)	2,105.62 (61.414)		
	72.00 - 74.14	2.14 (7.02)	3.19 (0.093)	159.53 (4.653)		
	74.14 - 75.00	0.86 (2.82)	0.99 (0.029)	15.77 (0.460)		
	75.00 - 77.00	2.00 (6.56)	0.58 (0.017)			
Containing:	57.70 - 72.00	14.30 (46.92)	14.43 (0.421)	1,059.84 (30.912)		
	57.70 - 74.14	16.44 (53.94	12.96 (0.378)	942.65 (27.494)		
90-31	129.79 - 130.79	1.00 (3.28)	0.58 (0.017)			
	135.79 - 136.79	1.00 (3.28)	0.45 (0.013)			
	142.79 - 143.79	1.00 (3.28)	0.65 (0.019)			
90-32	No Significant	Results*				
90-33	67.63 - 71.30	3.67 (12.04)	0.45 (0.013)	20.23 (0.59)	0.78	0.62
	79.90 - 82.76	2.86 (9.38)	0.41 (0.012)	12.00 (0.35)	0.64	0.42
90-34	4.00 - 8.53	4.53 (14.86)	3.53 (0.103)	36.34 (1.06)		0.17
	or2.98 - 14.63	11.65 (38.22)	2.33 (0.068)	25.71 (0.75)		0.14
	153.83 - 172.96	19.13 (62.76)	0.69 (0.020)			
90-35	No Significant	Results*				
90-36	No Significant	Results*				
90-37	55.90 - 56.85	0.95 (3.12)	0.45 (0.013)			
	87.78 - 88.78	1.00 (3.28)	0.45 (0.013)	12.69 (0.37)	1.32	2.23
90-38	45.81 - 47.72	1.91 (6.27)	0.45 (0.013)			
	166.49 - 172.27	5.78 (18.96)	0.45 (0.013)			
90-30	No Significant	Results*				
90-40	183.02 - 186.00	2.98 (9.78)	0.93 (0.027)			
90-41	49.09 - 55.51	6.42 (21.06)	0.55 (0.016)	10.63 (0.31)		0.79
	60.00 - 62.75	2.75 (9.02)	0.48 (0.014)	12.69 (0.37)	0.56	1.39
	95.00 - 102.00	7.00 (22.97)	0.41 (0.012)			

* All drill core analyses contain less than 0.34 grams gold per tonne (0.01 ounces gold per ton).

The extensive drilling of the altered footwall of the Mackay Mudstone (Unit 12) did not discover any substantial precious metal-hosting veins occupying easterly-dipping faults or massive sulphide deposits. However, three areas of potential significance were recognized.

1. Semi-massive to massive pyrite clasts were found in a mudstone debris flow in hole 90-21, indicating the possible formation of a nearby volcanogenic massive sulphide deposit. Sulphide clast-rich debris flows are associated with the Eskay deposit.

2. Extensive low-grade disseminated and stockwork precious metal mineralization is associated with the highly altered units at Battleship Knoll.

3. Holes 90-26, 90-28 and 90-34 encountered extensive low-grade gold stockwork mineralization in Unit 11 strata immediately underlying the Mackay mudstone (Unit 12).

Holes 90-30, 90-34 and 90-40 were drilled as a preliminary assessment of the Mount Dilworth Formation felsic units.

Holes 90-30 and 90-34, targeted at mudstones interbedded in the felsic assemblage stratigraphically higher in the section than the mineralization intersected in hole 90-26 and in the bottom of hole 90-34, intersected gold and silver mineralization over wide intervals. These mineralized mudstones are thought to have an exhalative component.

Holes 90-30 intersected 22 m of black siliceous carbonaceous mudstone (Lulu mudstone). A 14.30 m interval of the mudstone is mineralized with disseminated pyrite, framboidal pyrite, laminar

pyrite, and disseminated and fracture controlled stibnite and sphalerite. Native gold, ruby silver and arsenopyrite occur in trace quantities. A short interval of the felsic hanging wall is sericitic. In the immediate footwall of the Lulu mudstone, felsic strata are highly pyritic and sericitic. Down section, the abundance of pyrite and sericite diminishes and albite again becomes more prevalent.

Mineralization in the Marguerite mudstone, intersected in the top of hole 90-34, appears to be associated with a siliceous stockwork carrying 2-5% pyrite and minor chalcopyrite.

The mineralized Lulu and Marguerite mudstones, intersected in holes 90-30 and 90-34 respectively, stratigraphically overlie the broad zone of low grade stockwork gold mineralization encountered in hole 90-26 and deep in hole 90-34. This stacking of three mineralized horizons may be indicative of a mineralized hydrothermal vent.

CONCLUSIONS AND RECOMMENDATIONS

The 1990 drilling program on the SIB claims led to the discovery of two very significant zones of gold mineralizaion that warrant additional exploration. Diamond drilling of the Lulu and Marguerite gold-silver zones are considered first priority advanced exploration targets. Follow-up diamond drilling is recommended as follows:

1. Diamond drill the Lulu zone at 20 m intervals along strike and down dip.

2. Diamond drill the Lulu mudstone strike extensions to the north and south at 100 m intervals.

3. Diamond drill the Marguerite zone at 40 m intervals along strike and down dip. These holes should be sufficiently long to cut the mineralized stockwork zone underlying the Mackay mudstone intersected near the bottom of hole 90-34.

4. Diamond drill the Marguerite mudstone at 100 m intervals and, where appropriate, extend the holes far enough to cut the stockwork zone underlying the Mackay mudstone.

STATEMENT OF EXPENDITURES

DIAMOND DRILLING PROGRAM
SEPTEMBER 1 TO DECEMBER 15, 1990

D. Copeland, Senior Geological Consultant		
Sept.1 to Dec.15	13.5 days @ $465/day	$ 6,277.50
M. Rebagliati, Senior Geological Consultant		
Sept.1 to Dec.15	42.5 days @ $465/day	19,762.50
R. Haslinger, Project Geologist		
Sept. 1 to Dec.15	91 days @ $275/day	14,300.00
G. LePage, Geologist		
Sept.1 to Oct.22	52 days @ $275/day	14,300.00
D. O'Neil, Geological Assistant		
Sept.1 to Oct.22	52 days @ $275/day	14,300.00
M. Reid, Geological Assistant		
Sept.1 to Oct.22	52 days @ $200/day	10,400.00
D. Wilson, Geological Assistant		
Sept.1 to Oct.22	52 days @ $200/day	10,400.00
H. Norris, Camp Cook		
Sept.1 to Oct.22	52 days @ $225/day	11,700.00
ProComp GeoDraft, Drafting Services		
	3 days @ $200/day	600.00
J.T. Thomas Diamond Drilling		
(all inclusive)	3980 m @ $98.80/m	393,218.00
Min-En Labs, Core Analyses		
Multi-element 2568 analyses @ $14.50/sample		37,236.00
Helicopter Support for Camp & Drill, including fuel		
	168 hours @ $820.08/hour	137,774.00
Freight		13,190.60
Room and Board	326 man days @ $100/man day	32,600.00
Triathlon Mapping, Topographic Base Map		
	Preparation	4,500.00
	Total	$720,558.60

CERTIFICATE OF QUALIFICATIONS

I, Richard Josef Haslinger, of #204 - 1990 West 6th Avenue, Vancouver, B.C., hereby certify that:

1. I am a Geological Engineer employed by C.E.C. Engineering Ltd., a geological consulting firm with offices at 700 - 1177 West Hastings Street, Vancouver, B.C.

2. I am a graduate of the University of British Columbia (B.A. Sc., Geological Engineering, 1986).

3. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia.

4. I have practiced my profession continuously since graduation, excluding the period January, 1989 to June 1990.

5. The foregoing report is based on:
   a) A study of available company and government reports.
   b) My personal knowledge of the area resulting from my direct supervision of exploration on the property from August to October, 1990.

R.J. Haslinger, P.Eng.
April 17, 1991

CERTIFICATE OF QUALIFICATIONS

I, Clarence Mark Rebagliati, of 3536 West 15th Avenue, Vancouver, B.C., hereby certify that:

1. I am a consulting Geological Engineer with offices at 3536 West 15th Avenue, Vancouver, B.C.

2. I am a graduate of the Provincial Institute of Mining, Haileybury, Ontario (Mining Technology, 1966).

3. I am a graduate of the Michigan Technological University, Houghton, Michigan, U.S.A. (B.Sc., Geological Engineering, 1969).

4. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia.

5. I have practiced my profession continuously since graduation.

6. The foregoing report is based on:
   a) A study of all available company and government reports.
   b) My personal knowledge of the general area resulting from regional studies and from the management of exploration on the property in 1989 and 1990.

C.M. Rebagliati, P.Eng.
April 17, 1991

CERTIFICATE OF QUALIFICATIONS

I, David J. Copeland, of the City of Vancouver, Province of British Columbia, do hereby certify that:

1. I am a consulting geological engineer with a business office at Suite 700 - 1177 West Hastings Street, Vancouver, B.C. and am Secretary of C.E.C. Engineering Ltd.

2. I am a graduate in economic geology with a Bachelor of Science degree from the University of British Columbia in 1970.

3. I am a registered member, in good standing, of the Association of Professional Engineers and Geoscientists of B.C.

4. Since graduation I have been engaged in mineral exploration and mine development in Canada, United States of America, South America and Australia.

5. The foregoing report is based on:
   a) A study of all available company and government reports.
   b) My personal knowledge of the general area resulting from regional studies and from the management of exploration on the property in 1989 and 1990.

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA D.J. COPELAND

D.J. Copeland, P.Eng.
April 17, 1991

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APPENDIX A

ANALYTICAL PROCEDURES

MINERAL
• ENVIRONMENTS
LABORATORIES

Division of Assayers Corp. Ltd.

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK:

PROCEDURE FOR TRACE ELEMENT ICP

Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu,
Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb,
Sr, Th, U, V, Zn, Ga, Sn, W, Cr

Samples are processed by Min-En Laboratories, at 705 West 15th Street, North Vancouver, 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 by a jaw crusher and pulverized on a ring mill pulverizer.

0.50 gram of the sample is digested for 2 hours with an aqua regia mixture. After cooling samples are diluted to standard volume.

The solutions are analyzed by computer operated Jarrall Ash 9000 ICAP or Jobin Yvon 70 Type II Inductively Coupled Plasma Spectrometers.

OFFICE AND LABORATORIES:
705 WEST FIFTEENTH STREET, NORTH VANCOUVER, B.C.
CANADA V7M 1T2

PHONE: (604) 980-5814 (604) 988-4524
TELEX: VIA USA 7601067
FAX: (604) 980-9621

MINERAL
• ENVIRONMENTS
LABORATORIES

Division of Assayers Corp. Ltd.

ELEMENT	DIGESTION	METHOD	DETECTION LIMIT
Ag PPM	Aqua Regia	ICP-AES	0.1
Al PPM	Aqua Regia	ICP-AES	1
As PPM	Aqua Regia	ICP-AES	1
B PPM	Aqua Regia	ICP-AES	1
BA PPM	Aqua Regia	ICP-AES	1
Be PPM	Aqua Regia	ICP-AES	0.1
Bi PPM	Aqua Regia	ICP-AES	1
Ca PPM	Aqua Regia	ICP-AES	10
Cd PPM	Aqua Regia	ICP-AES	0.1
Co PPM	Aqua Regia	ICP-AES	1
Cu PPM	Aqua Regia	ICP-AES	1
Fe PPM	Aqua Regia	ICP-AES	10
K PPM	Aqua Regia	ICP-AES	10
Li PPM	Aqua Regia	ICP-AES	10
Mg PPM	Aqua Regia	ICP-AES	10
Mn PPM	Aqua Regia	ICP-AES	1
Mo PPM	Aqua Regia	ICP-AES	1
Na PPM	Aqua Regia	ICP-AES	10
Ni PPM	Aqua Regia	ICP-AES	1
P PPM	Aqua Regia	ICP-AES	10
Pb PPM	Aqua Regia	ICP-AES	1
Sb PPM	Aqua Regia	ICP-AES	1
Sr PPM	Aqua Regia	ICP-AES	1
Th PPM	Aqua Regia	ICP-AES	1
U PPM	Aqua Regia	ICP-AES	1
V PPM	Aqua Regia	ICP-AES	0.1
Zn PPM	Aqua Regia	ICP-AES	1
Ga PPM	Aqua Regia	ICP-AES	1
Sn PPM	Aqua Regia	ICP-AES	1
W PPM	Aqua Regia	ICP-AES	1
Cr PPM	Aqua Regia	ICP-AES	1
Au PPB	Fire Assay-Aqua Regia	AAS	1
Au PPB	Aqua Regia-MIBK	AAS	5
Hg PPB	Aqua Regia	AAS-Flameless	5
Tl PPB	Aqua Regia-MIBK	AAS	20
F PPM	Fusion	Specific Ion	2

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FAX: (604) 980-9621

MINERAL
• ENVIRONMENTS
LABORATORIES

Division of Assayers Corp. Ltd.

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK

PROCEDURE FOR AU, PT OR PD FIRE GEOCHEM

Geochemical samples for Au Pt Pd are processed by Min-En Laboratories, at 705 West 15th St., North Vancouver, B. C., 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 on a ring mill pulverizer.

A suitable sample weight; 15.00 or 30.00 grams is fire assay preconcentrated. The precious metal beads are taken into solution with aqua regia and made to volume.

For Au only, samples are aspirated on an atomic absorption spectrometer with a suitable set of standard solutions. If samples are for Au plus Pt or Pd, the sample solution is analyzed in an inductively coupled plasma spectrometer with reference to a suitable standard set.

OFFICE AND LABORATORIES:
705 WEST FIFTEENTH STREET, NORTH VANCOUVER, B.C.
CANADA V7M 1T2

PHONE: (604) 980-5814 (604) 988-4524
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MINERAL
• ENVIRONMENTS
LABORATORIES

Division of Assayers Corp. Ltd.

GOLD ASSAY PROCEDURE:

Samples are dried @ 95 C and when dry are crushed on a jaw crusher. The 1/4 inch output of the jaw crusher is put through a secondary roll crusher to reduce it to - 1/8 inch. The whole sample is then riffled on a Jones Riffle down to a statistically representative 300 - 400 gram sub-sample (in accordance with Gy's statistical rules). This sub-sample is then pulverized on a ring pulverizer to 95% minus 120 mesh, rolled and bagged for analysis. The remaining reject from the Jones Riffle is bagged and stored.

Samples are fire assayed using one assay ton sample weight. The samples are fluxed, a silver inquart added and mixed. The assays are fused in batches of 24 assays along with a natural standard and a blank. This batch of 26 assays is carried through the whole procedure as a set. After cupellation the precious metal beads are transferred into new glassware, dissolved, diluted to volume and mixed.

These aqua regia solutions are analyzed on an atomic absorption spectrometer using a suitable standard set. The natural standard fused along with this set must be within 3 standard deviations of its known or the whole set is re-assayed. Likewise the blank must be less than 0.015 g/tonne.

OFFICE AND LABORATORIES:

PHONE (604) 980-5814 (604) 980-4524

APPENDIX B

DRILL LOGS AND ANALYTICAL RESULTS

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-16

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 1048/9	CLAIM #	: SIB 1		
LOCAL GRID	: 11707.91 N / 10193.22 E	GLOBAL GRID	: 15572.22 N / 19466.36 E		
LENGTH	: 139.59 m	INCLINATION	: -45.0 degrees	ELEVATION	: 1168.29 metres
OVERBURDEN	: 4.21 m	CASING	: 4.21 metres	AZIMUTH	: 160.0 degrees
LOGGED BY	: Guy LePage	DRILLED BY	: J.T. Thomas	ASSAYING BY	: Min-En Labs
DATE LOGGED	: 1990/09/08 Y/M/D	DATE DRILLED	: 1990/09/05 Y/M/D	CORE LOCATION	: 101+00 N, 98+00 E
				SAMPLE NO. SERIES	: 14577-14624

SUMMARY LOG 90-16

From(m)	To(m)	Field Name (Legend)
0.00	4.21	CASING
4.21	39.56	LAPILLI TUFF(+- BRECCIA) (UNIT 11)
39.56	78.70	BRECCIA AND LAPILLI TUFF (UNIT 11)
78.70	108.73	K-FELDSPAR FLOODED PLAGIOCLASE PORPHYRY TUFF (UNIT 11)
108.73	113.64	SULPHIDIC-POTASSIUM FLOODED TUFF (UNIT 11)
113.64	115.69	K-FELDSPAR PLAGIOCLASE PORPHYRY(TUFF) (UNIT 11)
115.69	139.59	K-FELDSPAR FLOODED TUFF (UNIT 11)
139.59		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-16

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
95.00	98.00	3.00	0.034			0.12
98.00	101.00	3.00	0.091			0.12
98.00	98.90	0.90	0.125			
111.00	113.62	2.02	0.051			

From(m)	To(m)	Description
0.00	4.21	CASING
4.21	39.56	LAPILLI TUFF(+- BRECCIA) (UNIT 11) Colour: dark grey. Grain Size: Aphanitic. Plagioclase Phenocrysts: euhedral to subhedral, carbonitized, 1-2 mm in length, enclosing angular well defined less altered tuffaceous clasts. Structure Jointing: 25 to 55 degrees to core axis Alteration K-feldspar: Strong. Intense pervasive (+- stockwork), pinkish grey(locally up to 70% of the unit). Silicification: Strong. bluish-grey, overprints k-feldspar alteration. Mineralization Pyrite: 2 to 3%. euhedral blebs, 3 to 4 mm, lesser fine disseminations. Veins and Sub-Intervals Quartz Veining. Core axis angle 25 to 55 degrees. reddish brown, oxidized, 10 to 20% k-feldspar flooding. Calcite Veining. Core axis angle 5 to 10 degrees. minor <31.29>-<39.56>: Intensely k-spar flooded throughout, 60 to 70% kspar inturn overprinted by a lesser(5 to 10%) bluish grey siliceous aphanitic stockwork assemblage. Local shearing at 30 degrees to core axis. Blebs and lesser disseminated euhedral pyrite 2 to 3%.
39.56	78.70	BRECCIA AND LAPILLI TUFF (UNIT 11) Composition Lithology: Repeated intervals of heterolithic fragments occur in shrp contact with host rocks. Structure Jointing: Dominantly 65 degrees to core axis, lesser 30 degrees to core axis. Alteration K-feldspar: Fragments intervals k-feldspar altered. Mineralization Pyrite: 4 to 6%. Recrystallized blebs in clasts. Secondary pyrite as an accessory in milky quartz veins and in pyrite veins associated with secondary brecciated quartz, k-spar, chloritic fragments. Galena: Trace as disseminations in quartz veins. Veins and Sub-Intervals Quartz Veining. Core axis angle 20 to 30 degrees. milky white. <51.10>-<53.30>: FAULT. 24% recovery. Mostly breccia annealed by sericite and k-spar and gouge. <63.40>-<65.60>: Poor recovery.

From(m)	To(m)	Description
78.70	108.73	K-FELDSPAR FLOODED PLAGIOCLASE PORPHYRY TUFF (UNIT 11) Composition Lithology: Similar to above, k-feldspar is more pervasive rather than fracture controlled, however outlines of clasts are still present. 25 to 30% k-feldspar. *Unit becomes increasingly deformed with depth. Mineralization Pyrite: 5 to 7%. Coarse euhedral blebs(recrystallized) throughout and also in stockwork veins (in association with clorite, quartz,k-feldspar fragments. Predominant orientation 60 degrees to core axis. Galena: trace Sub-Intervals <103.00>-<105.50>: Possible fault zone, poor recovery.
108.73	113.64	SULPHIDIC-POTASSIUM FLOODED TUFF (UNIT 11) Composition Lithology: Interval consists of brecciated k-feldspar, minor chlorite and quartz and ends abruptly with a marked decrease in off white potassium flooded tuff. Structure Contact: Lower contact has a jagged edge, probably shallow angle to core axis. Mineralization Pyrite: 8 to 10%. Oriented in discrete veins at 10 to 20 degrees to core axis and as stockwork and as euhedral blebs. Galena: 2 to 3%.
113.64	115.69	K-FELDSPAR PLAGIOCLASE PORPHYRY(TUFF) (UNIT 11) Colour: dark grey to medium grey. Grain Size: Aphanitic. Plagioclase Phenocrysts: euhedral, 2 to 3mm. Composition K-feldspar: 30 to 35%. In groundmass fragments average 7 to 10 mm in width. Groundmass: K-spar rich(30 to 35%). Fragments: Porphyry k-feldspar fragments 7 to 10mm wide. Difficult to tell primary from secondary k-feldspar. Mineralization Pyrite: 1 to 2%. euhedral Veins Quartz Veining. Core axis angle 5 to 11 degrees. Minor, cross cutting.

From(m)	To(m)	Description
115.69	139.59	K-FELDSPAR FLOODED TUFF (UNIT 11) Composition K-feldspar: 40 to 50%. Structure Jointing: 10 to 20 degrees to core axis Alteration K-feldspar: Strong. flooded Silicification: Weak. also quartz veins Mineralization Pyrite: 1 to 2%. disseminated blebs and discrete veins from 3-5 mm wide and at 20 degrees to core axis. Veins Quartz Veining. Core axis angle 60 to 70 degrees. also at 20 degrees to core axis.
139.59		END OF HOLE.

Hole No.: 90-16

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	4.21	4.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14577	4.21	8.00	3.79	-	-	3	-	-	.7	6	4	112	.1	27380	1	15	1	61
14578	8.00	11.00	3.00	-	-	170	-	-	.6	13	36	173	.1	34200	1	18	1	91
14579	11.00	14.00	3.00	-	-	2	-	-	1.1	2	8	129	.1	31810	1	20	1	83
14580	14.00	17.00	3.00	-	-	3	-	-	.9	3	8	115	.1	31850	1	13	1	67
14581	17.00	20.00	3.00	-	-	2	-	-	.7	2	1	139	.1	39630	1	16	1	84
14582	20.00	23.00	3.00	-	-	2	-	-	.6	3	1	138	.1	33050	1	14	1	104
14583	23.00	26.00	3.00	-	-	5	-	-	.7	2	1	140	.1	33630	1	11	1	79
14584	26.00	29.00	3.00	-	-	29	-	-	.7	3	1	146	.1	35710	1	18	1	84
14585	29.00	32.00	3.00	-	-	1	-	-	.8	2	1	136	.1	32240	1	17	1	71
14586	32.00	35.00	3.00	-	-	90	-	-	2.1	163	48	247	1.7	31570	2	341	13	435
14587	35.00	38.00	3.00	-	-	74	-	-	.8	7	23	93	.1	28810	1	224	1	276
14588	38.00	41.00	3.00	-	-	117	-	-	.9	19	59	158	.1	30660	1	133	1	190
14589	41.00	44.00	3.00	-	-	239	-	-	.9	5	133	134	1.4	31670	1	24	1	48
14590	44.00	47.00	3.00	-	-	199	-	-	1.0	5	117	139	.1	32650	1	25	1	58
14591	47.00	50.00	3.00	-	-	298	-	-	1.1	7	102	124	1.9	35120	1	303	1	538
14592	50.00	53.00	3.00	-	-	42	-	-	.9	44	1	213	2.9	36580	1	766	1	1196
14593	53.00	56.00	3.00	-	-	61	-	-	1.0	48	2	153	2.2	39260	1	707	1	875
14594	56.00	59.00	3.00	-	-	88	-	-	.9	24	3	132	1.4	33340	1	429	1	510
14595	59.00	62.00	3.00	-	-	130	-	-	.8	9	19	122	.6	37830	1	222	1	262
14596	62.00	65.00	3.00	-	-	385	-	-	.7	6	128	113	1.5	36170	1	75	3	106
14597	65.00	68.00	3.00	-	-	80	-	-	.9	23	51	79	2.2	31140	1	328	1	429
14598	68.00	71.00	3.00	-	-	421	-	-	1.0	6	111	83	.6	30660	1	30	1	63
14599	71.00	74.00	3.00	-	-	548	-	-	.9	13	177	78	2.5	38830	1	122	1	375
14600	74.00	77.00	3.00	-	-	109	-	-	.6	15	74	113	1.8	32320	1	277	1	308
14601	77.00	80.00	3.00	-	-	198	-	-	.5	7	48	80	.3	37180	1	222	1	388
14602	80.00	83.00	3.00	-	-	172	-	-	.6	5	71	78	.1	37500	1	201	1	194
14603	83.00	86.00	3.00	-	-	297	-	-	.7	14	120	82	3.7	38860	1	232	1	819
14604	86.00	89.00	3.00	-	-	510	-	-	.9	12	143	181	3.6	40420	1	41	1	495
14605	89.00	92.00	3.00	-	-	575	-	-	1.4	28	148	111	8.3	52380	1	153	1	1403
14606	92.00	95.00	3.00	-	-	665	-	-	1.1	20	177	100	7.7	52700	1	71	1	1224
14607	95.00	98.00	3.00	1.34	.039	1160	-	-	1.6	32	285	84	8.4	73040	1	286	7	1172
46437	98.00	98.54	.54	-	-	4320	-	-	3.9	99	533	43	10.2	*****	1	236	1	1562
46438	98.54	98.90	.36	-	-	2570	-	-	4.1	77	532	60	25.3	*****	1	1517	1	3947
46439	98.90	99.97	1.07	-	-	226	-	-	1.0	9	58	253	.1	36020	1	68	1	338
46440	99.97	101.00	1.03	-	-	54	-	-	1.1	5	36	98	.1	30820	3	383	1	367
14608	98.00	101.00	3.00	3.12	.091	3000	-	-	2.6	48	370	87	9.6	72960	2	574	5	1237
14609	101.00	103.00	2.00	-	-	360	-	-	.6	6	76	114	3.0	31790	1	175	1	681
14610	103.00	106.00	3.00	-	-	361	-	-	.9	16	128	82	1.8	32080	1	154	4	202
14611	106.00	108.73	2.73	-	-	81	-	-	.5	5	62	90	.1	25650	1	86	2	156
14612	108.73	111.00	2.27	-	-	193	-	-	.8	8	72	85	1.7	32150	5	228	4	281
14613	111.00	112.00	1.00	1.02	.030	1000	-	-	1.2	27	192	187	1.8	31710	2	266	1	589
14614	112.00	113.00	1.00	3.00	.088	2660	-	-	2.6	94	614	97	21.8	66030	1	1469	12	3262
14615	113.00	113.62	.62	.90	.026	1030	-	-	.8	38	242	133	3.6	36900	1	229	1	312
14616	113.62	115.00	1.38	-	-	85	-	-	.8	21	74	103	.1	28410	3	126	1	131
14617	115.00	118.00	3.00	-	-	63	-	-	.7	17	23	85	.1	29570	1	27	1	43
14618	118.00	121.00	3.00	-	-	132	-	-	.9	46	37	73	.1	27890	1	88	1	140
14619	121.00	124.00	3.00	-	-	12	-	-	.3	3	1	70	.1	27520	1	23	1	39
14620	124.00	127.00	3.00	-	-	14	-	-	.5	2	8	73	.1	28410	1	25	2	49
14621	127.00	130.00	3.00	-	-	2	-	-	.3	4	1	81	.1	30330	1	22	1	72

Hole No.: 90-16

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
14622	130.00	133.00	3.00	-	-	7	-	-	.3	3	1	79	.1	33640	1	25	1	63
14623	133.00	136.00	3.00	-	-	12	-	-	.5	9	1	98	.1	29080	1	94	1	122
14624	136.00	139.59	3.59	-	-	36	-	-	.3	4	1	87	.1	28980	1	31	1	48

COMP: COASTAL MTN.ENGRG.
PROJ: SIB
ATTN: D.COPELAND/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-16

FILE NO: 0S-0510-RJ3
DATE: 90/09/20
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
14599	.9	7840	177	1	78	.2	1	12550	2.5	10	13	38830	2930	3	7440	1339	1	200	1	1560	122	1	21	1	1	26.7	375	1	1	1	19	548
14600	.6	7080	74	1	113	.5	1	12620	1.8	9	15	32320	3300	3	7760	1728	1	200	1	1590	277	1	22	1	1	24.7	308	1	1	1	16	109
14601	.5	9450	48	1	80	.3	1	10230	.3	10	7	37180	3240	4	7220	1402	1	240	1	1670	222	1	16	1	1	27.7	388	1	1	1	16	198
14602	.6	11000	71	1	78	.6	1	15450	.1	9	5	37500	3100	5	11200	1695	1	240	1	1700	201	1	22	1	1	27.9	194	1	1	1	16	172
14603	.7	12130	120	1	82	.4	1	11360	3.7	9	14	38860	3430	6	9810	1486	1	200	1	1670	232	1	17	1	1	33.7	819	2	1	1	13	297
14604	.9	12680	143	1	181	.2	1	11460	3.6	10	12	40420	3170	7	12210	1398	1	110	1	1490	41	1	25	1	1	48.3	495	1	1	1	28	510
14605	1.4	13810	148	1	111	.1	1	13100	8.3	13	28	52380	2790	8	16430	1791	1	90	1	1460	153	1	31	1	1	51.4	1403	1	2	1	9	575
14606	1.1	13360	177	1	100	.1	1	12180	7.7	11	20	52700	2930	7	15500	1714	1	90	1	1380	71	1	26	1	1	51.2	1224	2	1	1	25	665
14613	1.2	5160	192	1	187	.1	1	14640	1.8	9	27	31710	3760	1	5630	1099	2	90	1	1480	266	1	21	1	1	16.1	589	1	1	1	26	1000
14614	2.6	4220	614	1	97	.1	1	23260	21.8	16	94	66030	3440	1	11160	2233	1	50	1	1150	1469	12	22	1	1	23.3	3262	1	1	1	9	2660
14615	.8	4830	242	1	133	.3	1	12680	3.6	11	38	36900	3880	1	4020	851	1	90	1	1660	229	1	19	1	1	20.0	312	1	1	1	22	1030
14616	.8	5700	74	1	103	.3	1	19110	.1	13	21	28410	4500	1	8470	1563	3	110	1	1690	126	1	22	1	1	25.8	131	1	1	1	34	85
14617	.7	5050	23	1	85	.3	2	27260	.1	10	17	29570	3930	1	13990	2419	1	160	2	1470	27	1	27	1	1	30.8	43	1	1	1	26	63
14618	.9	3970	37	1	73	.2	2	31650	.1	8	46	27890	3230	1	18010	3365	1	130	3	1310	88	1	33	1	1	27.5	140	1	1	1	24	132
14619	.3	8070	1	1	70	.3	1	18380	.1	8	3	27520	3910	3	9310	1874	1	250	2	1450	23	1	22	1	1	26.3	39	1	1	1	23	12
14577	.7	10840	4	1	112	.6	1	18750	.1	10	6	27380	3770	4	8870	2123	1	320	1	1610	15	1	22	1	1	38.6	61	1	1	1	20	3
14578	.6	15160	36	1	173	.6	1	9820	.1	10	13	34200	3230	6	8230	1356	1	290	1	1780	18	1	15	1	1	46.1	91	1	1	1	11	170
14579	1.1	14240	8	1	129	.1	1	17720	.1	9	2	31810	4120	5	10190	1825	1	430	1	1740	20	1	24	1	1	44.3	83	1	1	1	18	2
14580	.9	9540	8	1	115	.1	2	19650	.1	9	3	31850	3840	3	8700	1609	1	320	1	1650	13	1	28	1	1	31.6	67	1	1	1	10	3
14581	.7	15820	1	2	139	.5	1	20070	.1	11	2	39630	4020	6	8980	1735	1	290	1	1660	16	1	15	1	1	45.2	84	1	2	1	3	2
14587	.8	5820	23	1	93	.3	1	18120	.1	8	7	28810	3720	1	12380	2250	1	250	1	1490	224	1	31	1	1	25.9	276	1	1	1	16	74
14588	.9	7770	59	1	158	.2	1	16070	.1	10	19	30660	4070	2	10530	1937	1	200	1	1670	133	1	23	1	1	26.9	190	1	1	1	10	117
14589	.9	13450	133	1	134	.7	1	10010	1.4	10	5	31670	4790	6	8700	1051	1	240	1	1770	24	1	14	1	1	31.4	48	1	1	1	18	239
14590	1.0	14490	117	1	139	.7	2	9280	.1	12	5	32650	5000	6	8160	927	1	250	1	1680	25	1	12	1	1	32.0	58	1	1	1	29	199
14591	1.1	14180	102	1	124	.8	2	9640	1.9	9	7	35120	4640	6	8700	945	1	230	1	1730	303	1	15	1	1	34.3	538	2	1	1	27	298
14597	.9	9920	51	1	79	.1	1	12150	2.2	9	23	31140	3070	5	9240	1722	1	190	1	1470	328	1	22	1	1	26.8	429	1	1	1	22	80
14598	1.0	8160	111	1	83	.2	1	9850	.6	9	6	30660	3460	3	5820	1039	1	190	1	1600	30	1	17	1	1	23.3	63	1	1	1	19	421
14582	.6	13200	1	1	138	.6	2	17250	.1	9	3	33050	3820	5	6370	1142	1	300	1	1740	14	1	13	1	1	38.8	104	1	1	1	10	2
14583	.7	16090	1	1	140	.5	1	19860	.1	9	2	33630	4040	7	8960	885	1	340	1	1640	11	1	21	1	1	43.1	79	1	1	1	10	5
14584	.7	13620	1	1	146	1.2	2	23840	.1	9	3	35710	4510	5	10500	1343	1	290	1	1620	18	1	21	1	1	39.5	84	2	1	1	5	29
14585	.8	11590	1	1	136	.7	1	20850	.1	9	2	32240	4960	3	9700	1198	1	270	1	1570	17	1	17	1	1	31.8	71	1	1	1	5	1
14586	2.1	7420	48	3	247	.7	2	19300	1.7	9	163	31570	4310	1	9270	1653	2	230	1	1400	341	13	51	1	1	24.3	435	1	1	1	15	90
14592	.9	17080	1	1	213	1.0	2	11860	2.9	9	44	36580	4500	9	10890	1336	1	360	1	1650	766	1	22	1	1	51.4	1196	1	1	1	16	42
14593	1.0	15980	2	1	153	1.2	2	12920	2.2	9	48	39260	3880	10	11660	1516	1	320	1	1750	707	1	24	1	1	49.9	875	2	1	1	14	61
14594	.9	14190	3	1	132	.5	2	13610	1.4	9	24	33340	4570	7	10400	1437	1	260	2	1660	429	1	22	1	1	32.6	510	1	1	1	20	88
14595	.8	14650	19	1	122	1.2	1	15160	.6	10	9	37830	4960	7	11630	1725	1	290	1	1710	222	1	29	1	1	37.4	262	1	1	1	11	130
14596	.7	12350	128	1	113	.9	1	9480	1.5	11	6	36170	4600	5	7490	1040	1	290	1	1620	75	3	17	1	1	30.3	106	1	1	1	15	385
14607	1.6	16920	285	2	84	1.1	2	10250	8.4	14	32	73040	3250	12	18060	1657	1	150	1	1480	286	7	32	1	1	57.4	1172	1	2	1	1	1160
14608	2.6	16430	370	2	87	1.2	1	10180	9.6	14	48	72960	2080	13	20340	1503	2	130	1	1410	574	5	33	1	1	57.5	1237	1	1	1	1	3000
14609	.6	12330	76	1	114	.6	1	9910	3.0	10	6	31790	2240	10	12800	1137	1	310	1	1730	175	1	28	1	1	55.3	681	1	1	1	10	360
14610	.9	7450	128	1	82	.8	1	7890	1.8	9	16	32080	3580	6	4690	647	1	150	1	1420	154	4	12	2	1	18.6	202	1	20	1	12	361
14611	.5	6510	62	1	90	1.0	1	11360	.1	9	5	25650	4240	3	4750	911	1	170	1	1590	86	2	11	1	1	13.6	156	1	1	1	7	81
14612	.8	5710	72	1	85	.7	1	14820	1.7	9	8	32150	3330	3	6600	1275	5	170	1	1530	228	4	20	1	1	17.9	281	1	1	1	12	193
14620	.5	7770	8	1	73	1.1	1	21790	.1	9	2	28410	3700	3	10510	2212	1	280	1	1620	25	2	28	1	1	28.2	49	1	1	1	10	14
14621	.3	8670	1	1	81	.7	2	22910	.1	10	4	30330	4020	3	11190	2477	1	330	1	1500	22	1	24	1	1	28.9	72	1	1	1	7	2
14622	.3	9340	1	1	79	.6	1	19670	.1	10	3	33640	3570	4	9140	2728	1	340	1	1700	25	1	21	1	1	33.3	63	1	1	1	3	7
14623	.5	8440	1	1	98	1.0	1	19870	.1	11	9	29080	3410	3	8660	2056	1	320	4	1600	94	1	24	1	1	30.3	122	1	1	2	9	12
14624	.3	9200	1	1	87	.8	1	19670	.1	10	4	28980	3470	4	8660	1819	1	360	2	1650	31	1	23	1	1	32.5	48	1	1	1	6	36
40437	3.9	15430	533	22	43	.1	1	9370	10.2	19	99	107230	2760	1	18410	1495	1	110	1	1150	236	1	23	1	1	58.5	1562	1	1	1	11	4320
40438	4.1	20560	532	19	60	.1	1	6740	25.3	20	77	114040	1990	1	26110	1318	1	60	1	1110	1517	1	17	1	1	70.5	3947	1	2	1	1	2570
40439	1.0	12520	58	14	253	.2	1	10830	.1	9	9	36020	2110	1	16410	1388	1	160	1	1300	68	1	29	1	1	47.8	338	2	1	1	24	226
40440	1.1	13020	36	18	98	.2	2	11820	.1	7	5	30820	2730	1	14020	1345	3	260	1	1540	383	1	27	1	1	44.1	367	2	1	1	28	54

MIN
• EN
LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

705 WEST 15TH STREET
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THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931
SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

90-16

Assay Certificate

OS-0695-RA1

Company: COASTAL MOUNTAIN ENGINEERING
Project: SIB
Attn: M. REBAGLIATI/R. HASLINGER

Date: OCT-23-90
Copy 1. COASTAL MOUNTAIN, VANCOUVER, B.C.
2. COASTAL MOUNTAIN, C/O TUNDRA, B.C.

We hereby certify the following Assay of 2 CORE samples submitted OCT-18-90 by GUY LEPAGE.

Sample Number	AU g/tonne	AU oz/ton
40437	5.18	.151
40438	3.05	.089

Assay Certificate

OS-0537-RA1

Company: COASTAL MOUNTAIN ENGINEERING
Project: SIB
Attn: D.COPELAND/R.HASLINGER

Date: SEP-25-90
Copy 1. COASTAL MTN.ENG., VANCOUVER, B.C.
2. COASTAL MTN.ENG., SMITHERS, B.C.
3. COASTAL MTN.ENG., C/O MIN-EN LABS

We hereby certify the following Assay of 2 ROCK samples submitted SEP-18-90 by R.HASLINGER.

Sample Number	AU g/tonne	AU oz/ton
14607	1.34	.039
14608	3.12	.091

Assay Certificate

OS-0510-RA1

Company: COASTAL MTN.ENGRG.
Project: SIB
Attn: D.COPELAND/R.HASLINGER

Date: SEP-20-90
Copy 1. COASTAL MTN.ENGRG., VANCOUVER, B.C.
2. COASTAL MTN.ENGRG., C/O TUNDRA

We hereby certify the following Assay of 3 ROCK samples submitted SEP-14-90 by R.HASLINGER.

Sample Number	AU g/tonne	AU oz/ton
14613	1.02	.030
14614	3.00	.088
14615	.90	.026

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-17

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 1048/9	CLAIM #	: SIB 1		
LOCAL GRID	: 11610.73 N / 10118.53 E	GLOBAL GRID	: 15519.05 N / 19355.92 E		
LENGTH	: 173.13 m	INCLINATION	: -45.0 degrees	ELEVATION	: 1169.07 metres
OVERBURDEN	: 4.65 m	CASING	: 4.65 metres.	AZIMUTH	: 304.0 degrees
LOGGED BY	: Guy LePage	DRILLED BY	: J.T. Thomas	ASSAYING BY	: Min-En Labs
DATE LOGGED	: 1990/09/09 Y/M/D	DATE DRILLED	:1990/09/06 Y/M/D	CORE LOCATION	: 101+00 N, 98+00 E
				SAMPLE NO. SERIES	: 14627-14709

ACID TESTS

Depth	Dip	Azimuth
142.65	-45.0	304.0

SUMMARY LOG 90-17

From(m)	To(m)	Field Name (Legend)
0.00	4.65	CASING
4.65	32.45	SHEARED FRAGMENTAL (TUFFACEOUS) (UNIT 11)
32.45	35.80	GRAPHITIC MUDSTONE (UNIT 11)
35.80	43.22	PLAGIOCLASE PORPHYRY K-FELDSPAR FLOODED SILICIFIED TUFF? (UNIT 11)
43.22	44.41	GRAPHITIC MUDSTONE (UNIT 12)
44.41	54.95	PLAGIOCLASE PORPHYRY K-FELDSPAR FLOODED, SILICIFIED TUFF (UNIT 11)
54.95	57.78	GRAPHITIC MUDSTONE (UNIT 12)
57.78	62.00	PLAGIOCLASE PORPHYRY K-FELDSPAR FLOODED TUFF (UNIT 11)
62.00	89.80	PLAGIOCLASE PORPHYRY K-FELDSPAR FLOODED TUFF (UNIT 11)
89.80	108.71	SILTY MUDSTONE (UNIT 12)
108.71	147.80	MUDSTONE (UNIT 12)
147.80	173.13	SILTY(SANDY) MUDSTONE (UNIT 12)
173.13		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-17

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
119.00	120.00	1.00	0.010	0.28	0.55	0.53
143.00	144.00	1.00	0.006	0.23	0.62	1.83

From(m)	To(m)	Description
0.00	4.65	CASING
4.65	32.45	SHEARED FRAGMENTAL (TUFFACEOUS) (UNIT 11) Plagioclase Phenocrysts: Sericitized, 2 to 3 mm in length. Composition Groundmass: light grey to pale pinkish grey, aphanitic. Clasts: Range from k-feldspar and plagioclase porphyry to tuffaceous volcanic interlain with numerous chloritic shears. Clasts pale green to green. Structure Shearing: 60 degrees to core axis. Long axis of clasts also 60 degrees to core axis Jointing: 60 degrees to core axis. Contact: lower contact interbedded with shales. Mineralization Pyrite: 2 to 3%. flattened and oriented grains from 60-70 degrees to core axis. Occasional disseminations and euhedral to subhedral blebs Galena: Trace. In veins as fine euhedral blebs. Veins and Sub-Intervals Quartz Veining. Core axis angle variable. 1 to 2%. Post date unit, often with k-feldspar. <20.60>-<20.95>: FAULT. Top contact at 15 degrees to core axis.
32.45	35.80	GRAPHITIC MUDSTONE (UNIT 11) Composition Mudstone: Black aphanitic and carbonaceous. No original bedding. Structure Shearing: 60 to 70 degrees to core axis Contact: 10 degrees to core axis. Lower. Mineralization Pyrite: 1 to 2%. Veins crosscutting the mudstone at variable angles to 60 degrees to core axis, +-quartz, +-k-feldspar. Also as specks and blebs in descrete clasts 2-3 mm wide. Sub-Intervals <32.45>-<33.05>: FAULT. Sub-parallel to degrees to core axis, annealed with quartz, minor k-feldspar and iron carbonate.
35.80	43.22	PLAGIOCLASE PORPHYRY K-FELDSPAR FLOODED SILICIFIED TUFF? (UNIT 11) Composition Groundmass: Black aphanitic k-feldspar(10%) flooded shale. Net veining with k-feldspar. Clasts: euhedral to subhedral plagioclase phenocrysts averaging 3 mm in length set in a fine grained pink aphanitic k-feldspar rich groundmass. Structure Shearing: 60 to 70 degrees to core axis. Cross cut by minor milky quartz and k-feldspar veinlets at 20 degrees to core axis. Mineralization Pyrite: Trace to 1%. fine grained disseminated

From(m)	To(m)	Description
43.22	44.41	GRAPHITIC MUDSTONE (UNIT 12) Composition Lithology: Similar to 32.45 to 35.80 metres. Locally sheared and brecciated. Clasts: Plagioclase porphyry, brecciated. Mineralization Pyrite: 1 to 2%.
44.41	54.95	PLAGIOCLASE PORPHYRY K-FELDSPAR FLOODED, SILICIFIED TUFF (UNIT 11) Composition Lithology: Similar to above. Mineralization Pyrite: 3 to 4%. Coarse euhedral blebs, fine grained disseminated and in quartz veins associated with plagioclase-porphyry clasts. Veins and Sub-Intervals Quartz-chlorite Veining. Core axis angle 20 degrees. 3-4 cm in width(average 5mm), +- iron carbonate. <46.80>-<48.16>: FAULT. Locally brecciated, sericite/chlorite gouge. Contact unclear however prominent fabric at 10 degrees to core axis.
54.95	57.78	GRAPHITIC MASSIVE (UNIT 12) Composition Mudstone: Similar to 32.45 to 35.80 metres. Mineralization Pyrite: 1 to 3%. Discrete veins with k-feldspar at 20 and 60 degrees to core axis +-quartz, +-chlorite.
57.78	62.00	PLAGIOCLASE PORPHYRY K-FELDSPAR FLOODED TUFF (UNIT 11) Tuff Texture: Meso-melanocratic plagioclase porphyry. K-feldspar to plagioclase ratio of 65:35. Structure Jointing: similar to above units. Alteration Potassic: pink pervasive overprint, obliterates textures Mineralization Pyrite: 3 to 4%. flattened and oriented grains associated with quartz, +-kl, +- clhorite. Also euhedral blebs and disseminations.

From(m)	To(m)	Description
62.00	89.80	PLAGIOCLASE PORPHYRY K-FELDSPAR FLOODED TUFF (UNIT 11) Composition Lithology: Similar to previous breccia. *Intense pyrite+quartz+-chlorite stockwork post dating potassic flooding particularly evident at the upper contact. Groundmass: Green chloritic/sericitic to black, k-feldspar rich, aphanitic Structure Shearing: 60 deg. cax. Long axis of clasts stretched Alteration Silicification: Strong. Downhole towards volcanic/sediment contact it is stronger than k-feldspar flooding. Mineralization Pyrite: 3 to 5%. mostly as disseminated and blebs associated with sericite-chlorite-k-feldspar matrix. Veins and Sub-Intervals <67.30>-<73.11>: Intense k-feldspar flooding(60 to70%). <83.89> : Quartz Vein. Chalcopyrite in k-feldspar/quartz vein.
89.80	108.71	SILTY MASSIVE (UNIT 12) Colour: black . Composition Mudstone: Occasional graphitic mudstone interbeds within felsic and quartzite beds. Clasts: Feldspar clasts up to 3mm. Structure Bedding: 70 degrees to core axis. bedding or structure? Shearing: local Mineralization Pyrite: mostly veins at 60 degrees to core axis. Veining: 2 quartz-pyrite-sphalerite-chalcopyrite-galena veins and stockwork at 60 degrees to core axis over 5 cm wide towards lower contact. Pyrite 3 to 5%, sphalerite 5 to 1%, trace chalcopyrite and galena. Veins and Sub-Intervals Quartz Veining. Core axis angle 60 to 70 degrees. Milky, occasionally sub-parallel degrees to core axis. <89.80>-<94.00>: Felsic and quartzite beds upto sandstone size particles, includes clasts of plagioclase porphyry, calcite 3 to 4 cm in width. <96.00>-<108.71>: Strongly carbonatized to 10 to 12%, pervasive.

From(m)	To(m)	Description
108.71	147.80	MUDSTONE (UNIT 12) Colour: dark green to green black. Grain Size: Fine. Composition Groundmass: K-feldspar rich, good stain with sodium cobalt nitrate from 15% up to 60 to 70% locally, probably secondary. Mineralization Pyrite: disseminated Veins and Sub-Intervals Quartz Veining. Core axis angle 25 to 45 degrees. Quartz-sulphide-carbonate-chlorite. Stockwork Veining. Quartz-sulphide-carbonate-chlorite. <108.71>-<117.80>: Quartz-pyrite-galena-sphalerite veins averaging 3 to 4 mm in width, occasional stockwork, orientations from 30 to 60 degrees to core axis with average of 35-40 degrees to core axis. Pyrite 0.3 to 0.5%, galena 0.1 to 0.3%, trace sphalerite. <117.80>-<120.45>: 4 veins at 40 to 45 degrees to core axis averaging 15 to 20 mm width. Pyrite 3 to 5%, sphalerite 2 to 3%, galena 1 to 2%. Local veins contain pyrite 30%, sphalerite 60% and galena 10%. <120.45>-<134.62>: Quartz-Mudstone breccia stockwork assemblage with veins at 40 degrees to core axis locally to 60 degrees to core axis enclosing selvedges of minor galena, pyrite and traces of disseminated pyrite. Pyrite 0.5 to 1.0%, trace galena and sphalerite. <134.62>-<147.80>: Excellent quartz-pyrite-sphalerite-galena stockwork and disseminated throughout. Pyrite 2 to 3%, sphalerite 1 to 2%, galena 0.5 to 1.0% and trace chalcopyrite.

From(m)	To(m)	Description
147.80	173.13	SILTY(SANDY) MUDSTONE (UNIT 12) Composition Mudstone: Similar to previous description. Note the occurence of sandy-silty interbeds(3 to 5%) unconformably within the mudstone and occurring as clasts upto 5 cm across. Structure Bedding: 45 to 50 degree to core axis. Jointing: 60 degrees to core axis. with minor milky quartz veins. Mineralization Pyrite: 1 to 2%. Disseminated with minor quartz-carbonate blebs and lesser veins 2 to 3 mm wide at 60 degrees to core axis.
173.13		END OF HOLE.

Hole No.: 90-17

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	4.65	4.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14627	4.65	8.00	3.35	-	-	38	-	-	.7	19	14	249	.9	24300	1	72	1	99
14628	8.00	11.00	3.00	-	-	38	-	-	.8	19	28	133	.1	24180	1	37	1	59
14629	11.00	14.00	3.00	-	-	4	-	-	.5	64	1	189	.1	25450	1	31	1	69
14630	14.00	17.00	3.00	-	-	42	-	-	.6	14	56	165	1.3	24280	1	24	1	43
14631	17.00	20.00	3.00	-	-	150	-	-	.7	12	118	233	.9	21660	3	26	1	21
14632	20.00	23.00	3.00	-	-	311	-	-	1.7	16	857	127	12.8	34200	9	49	20	66
14633	23.00	26.00	3.00	-	-	114	-	-	.9	14	275	94	3.5	18090	2	34	7	19
14634	26.00	29.00	3.00	-	-	73	-	-	.9	10	76	95	.1	15190	4	38	2	47
14635	29.00	32.00	3.00	-	-	49	-	-	.8	15	47	124	.1	21950	4	36	1	53
14636	32.00	35.00	3.00	-	-	47	-	-	.7	28	92	128	.1	36790	4	35	1	35
14637	35.00	38.00	3.00	-	-	60	-	-	.6	19	79	231	.1	34910	1	25	1	53
14638	38.00	41.00	3.00	-	-	4	-	-	.7	47	1	157	.1	29550	2	36	1	214
14639	41.00	44.00	3.00	-	-	18	-	-	.6	31	1	103	.1	30350	2	39	1	156
14640	44.00	47.00	3.00	-	-	57	-	-	.8	36	72	124	.6	32580	2	199	1	309
14641	47.00	50.00	3.00	-	-	3	-	-	.9	25	6	106	2.2	21000	1	247	1	363
14642	50.00	53.00	3.00	-	-	83	-	-	1.1	19	57	86	.1	28690	3	66	1	164
14643	53.00	56.00	3.00	-	-	84	-	-	.8	8	54	84	.7	24820	2	39	1	154
14644	56.00	59.00	3.00	-	-	149	-	-	1.3	12	118	137	1.2	24670	2	49	2	74
14645	59.00	62.00	3.00	-	-	93	-	-	.7	7	72	147	1.6	16880	1	26	1	35
14646	62.00	65.00	3.00	-	-	209	-	-	3.4	28	551	142	8.5	48190	1	137	28	423
14647	65.00	68.00	3.00	-	-	202	-	-	1.2	13	165	112	1.2	25800	1	50	3	93
14648	68.00	71.00	3.00	-	-	170	-	-	1.8	13	208	91	2.7	26540	1	73	6	56
14649	71.00	74.00	3.00	-	-	129	-	-	1.5	50	90	97	1.5	25040	1	60	1	226
14650	74.00	77.00	3.00	-	-	98	-	-	.7	5	37	82	.3	21260	1	14	1	37
14651	77.00	80.00	3.00	-	-	46	-	-	.6	3	24	109	.1	25670	1	17	1	40
14652	80.00	83.00	3.00	-	-	77	-	-	.5	3	46	107	1.2	27490	1	14	1	34
14653	83.00	86.00	3.00	-	-	114	-	-	.4	49	62	142	.2	25010	1	18	1	34
14654	86.00	89.00	3.00	-	-	66	-	-	.5	6	18	142	.1	23600	1	10	1	21
14655	89.00	92.00	3.00	-	-	74	-	-	1.9	9	1	113	.1	29610	1	24	1	62
14656	92.00	95.00	3.00	-	-	100	-	-	2.4	12	1	91	.1	30350	1	33	1	42
14657	95.00	98.00	3.00	-	-	198	-	-	2.4	27	8	185	.1	31330	1	41	2	60
14658	98.00	101.00	3.00	-	-	164	-	-	2.7	26	1	279	.1	32140	1	37	3	63
14659	101.00	104.00	3.00	-	-	86	-	-	1.5	26	9	131	.1	34640	2	37	3	57
14660	104.00	107.27	3.27	-	-	78	-	-	1.7	44	34	318	.1	35510	1	55	5	56
14661	107.27	108.00	.73	-	-	230	-	-	3.5	164	182	165	5.1	35940	1	357	15	997
14662	108.00	109.00	1.00	-	-	208	-	-	2.6	52	195	176	1.6	32270	1	119	12	37
14663	109.00	110.00	1.00	-	-	275	-	-	1.9	37	210	132	.9	34980	1	130	9	51
14664	110.00	111.00	1.00	-	-	422	-	-	2.6	90	262	112	7.7	30430	1	314	15	959
14665	111.00	112.00	1.00	-	-	358	-	-	2.5	41	252	127	2.3	44840	1	319	5	497
14666	112.00	113.37	1.37	-	-	186	-	-	2.0	60	126	150	1.3	31370	1	173	8	494
14667	113.37	115.00	1.63	-	-	358	-	-	3.8	158	222	133	6.2	37170	2	507	18	942
14668	115.00	116.00	1.00	-	-	252	-	-	3.0	51	157	125	1.0	36650	1	261	16	84
14669	116.00	117.00	1.00	-	-	158	-	-	2.2	42	58	136	.1	41780	1	86	3	61
14670	117.00	118.00	1.00	-	-	119	-	-	4.0	260	16	116	8.3	42500	1	1608	4	2187
14671	118.00	119.00	1.00	-	-	204	-	-	2.5	62	124	121	5.8	43630	1	321	5	1187
14672	119.00	120.00	1.00	-	-	336	-	-	9.6	664	220	131	267.1	39850	7	5478	28	52680
14673	120.00	121.00	1.00	-	-	345	-	-	4.5	160	264	132	12.0	47490	1	3044	22	1959
14674	121.00	122.00	1.00	-	-	264	-	-	2.3	46	200	141	.5	40160	1	343	14	186
14675	122.00	123.00	1.00	-	-	122	-	-	1.1	28	91	142	.2	27710	1	134	10	159

Hole No.: 90-17

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
14676	123.00	124.00	1.00	-	-	247	-	-	1.7	35	154	156	.8	29770	1	156	10	120
14677	124.00	125.00	1.00	-	-	205	-	-	2.0	35	105	134	1.6	31160	1	76	11	642
14678	125.00	126.00	1.00	-	-	137	-	-	1.9	59	86	134	.1	33450	1	106	10	104
14679	126.00	127.00	1.00	-	-	298	-	-	1.7	54	126	117	4.5	29940	1	247	12	754
14680	127.00	128.00	1.00	-	-	91	-	-	1.1	21	49	122	.2	27830	1	53	7	23
14681	128.00	129.00	1.00	-	-	79	-	-	1.2	23	57	82	.1	28610	1	89	6	86
14682	129.00	130.00	1.00	-	-	398	-	-	1.5	24	274	99	3.1	39160	1	195	7	220
14683	130.00	131.00	1.00	-	-	118	-	-	1.5	22	79	106	.5	29570	1	412	7	234
14684	131.00	132.00	1.00	-	-	162	-	-	2.0	30	92	177	1.4	37190	1	157	10	40
14685	132.00	133.00	1.00	-	-	127	-	-	2.2	31	77	159	.1	34490	1	116	7	67
14686	133.00	134.00	1.00	-	-	172	-	-	2.2	37	91	130	.1	34890	1	93	10	17
14687	134.00	135.00	1.00	-	-	178	-	-	2.3	28	103	146	6.4	30390	1	569	8	1148
14688	135.00	136.00	1.00	-	-	154	-	-	1.2	17	63	115	.1	28650	1	75	4	35
14689	136.00	137.00	1.00	-	-	189	-	-	1.6	20	111	112	1.1	37090	1	141	4	111
14690	137.00	138.00	1.00	-	-	194	-	-	2.3	33	129	168	1.4	37060	1	112	11	25
14691	138.00	139.00	1.00	-	-	202	-	-	4.5	540	142	121	39.7	46760	1	1524	11	7084
14692	139.00	140.00	1.00	-	-	167	-	-	3.0	37	103	137	1.3	36930	1	264	12	430
14693	140.00	141.00	1.00	-	-	139	-	-	2.6	72	96	112	6.5	32030	1	264	13	1419
14694	141.00	142.00	1.00	-	-	190	-	-	3.6	57	156	152	2.6	37850	3	1699	16	371
14695	142.00	143.00	1.00	-	-	164	-	-	2.9	88	116	207	31.3	39310	2	1111	15	5536
14696	143.00	144.00	1.00	-	-	204	-	-	7.8	208	202	169	94.6	38540	5	6156	27	18272
14697	144.00	145.00	1.00	-	-	239	-	-	4.0	56	191	175	26.1	33280	2	2387	16	4314
14698	145.00	146.00	1.00	-	-	353	-	-	2.4	97	258	161	7.2	52120	2	346	13	1511
14699	146.00	147.00	1.00	-	-	253	-	-	3.5	39	218	147	.5	43270	1	158	18	146
14700	147.00	148.00	1.00	-	-	296	-	-	5.0	349	179	182	12.0	40650	1	2039	14	1744
14701	148.00	149.00	1.00	-	-	172	-	-	2.4	38	84	164	.8	34460	1	95	5	152
14702	149.00	152.00	3.00	-	-	107	-	-	2.2	39	65	139	.2	33590	1	48	4	67
14703	152.00	155.00	3.00	-	-	115	-	-	1.4	43	33	144	.1	38950	1	78	1	145
14704	155.00	158.00	3.00	-	-	12	-	-	1.3	38	1	192	.1	38510	1	26	1	65
14705	158.00	161.00	3.00	-	-	22	-	-	.7	37	7	188	.1	36040	1	21	1	73
14706	161.00	164.00	3.00	-	-	4	-	-	1.0	33	4	204	.1	38790	1	20	1	82
14707	164.00	167.00	3.00	-	-	1	-	-	.7	28	1	178	.1	35550	1	22	1	75
14708	167.00	170.00	3.00	-	-	26	-	-	1.1	34	1	129	.1	37490	1	21	1	82
14709	170.00	173.13	3.13	-	-	15	-	-	.7	27	1	132	.1	38790	1	15	1	78

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: D.COPELAND/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-17

FILE NO: OS-0507-RJ1+2
DATE: 90/09/21
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
14627 90-17	.7	4500	14	1	249	.6	1	13050	.9	12	19	24300	3240	1	5900	1321	1	100	1	1740	72	1	21	1	1	15.3	99	1	1	1	1	38
14628	.8	4450	28	1	133	.5	1	12210	.1	12	19	24180	3080	1	5310	1320	1	100	1	2050	37	1	19	1	1	15.4	59	1	1	1	1	38
14629	.5	7160	1	1	189	.5	1	10600	.1	10	64	25450	4560	1	5700	1522	1	190	1	1600	31	1	13	1	1	22.5	69	1	1	1	1	4
14630	.6	7250	56	1	165	.6	1	7950	1.3	14	14	24280	4480	1	4210	1166	1	140	1	1160	24	1	10	1	1	18.6	43	1	1	1	1	42
14631	.7	6950	118	1	233	.6	1	8850	.9	13	12	21660	4460	1	2250	576	3	130	3	1890	26	1	19	1	1	17.4	21	1	1	1	2	150
14632	1.7	4780	857	1	127	.5	1	3800	12.8	14	16	34200	3330	1	700	132	9	150	1	1240	49	20	13	1	1	10.2	66	1	1	1	24	311
14633	.9	4560	275	1	94	.3	1	3620	3.5	12	14	18090	3420	1	510	80	2	190	1	1280	34	7	11	1	1	7.6	19	1	1	1	33	114
14634	.9	4780	76	1	95	.5	1	5300	.1	9	10	15190	3280	1	1360	401	4	170	1	1150	38	2	11	1	1	9.6	47	1	1	1	22	73
14635	.8	5290	47	1	124	.3	1	9640	.1	10	15	21950	3700	1	3650	1383	4	150	2	1350	36	1	14	1	1	14.4	53	1	1	1	9	49
14636	.7	6850	92	1	128	.5	2	11420	.1	14	28	36790	4930	1	5520	2285	4	590	1	2140	35	1	21	1	1	11.8	35	1	1	1	1	47
14637	.6	8300	79	1	231	.7	2	8150	.1	12	19	34910	4150	2	5030	1554	1	390	1	1520	25	1	11	1	1	17.9	53	1	1	1	1	60
14638	.7	6700	1	1	157	.1	2	17340	.1	8	47	29550	2390	3	9070	2056	2	810	1	1350	36	1	19	1	1	40.7	214	1	1	1	23	4
14639	.6	5570	1	1	103	.1	1	17360	.1	8	31	30350	2730	1	9360	2049	2	870	1	1450	39	1	29	1	1	24.3	156	1	1	1	19	18
14640	.8	7590	72	1	124	.5	2	12160	.6	10	36	32580	3400	2	6310	1792	2	720	1	1490	199	1	17	1	1	24.3	309	1	1	1	6	57
14641	.9	7440	6	1	106	.5	1	16510	2.2	7	25	21000	3110	4	8580	1814	1	560	1	1470	247	1	22	1	1	32.2	363	1	1	1	47	3
14642	1.1	11560	57	1	86	.2	2	11900	.1	11	19	28690	3870	5	6840	1442	3	520	1	1540	66	1	12	1	1	27.9	164	1	1	1	12	83
14643	.8	8690	54	1	84	.5	1	10100	.7	8	8	24820	3860	4	4820	1322	2	840	1	1450	39	1	9	1	1	22.2	154	1	1	1	20	84
14644	1.3	5250	118	1	137	.2	1	6560	1.2	10	12	24670	3390	1	2200	597	2	850	1	1420	49	2	10	1	1	12.4	74	1	1	1	45	149
14645	.7	3420	72	1	147	.3	1	6180	1.6	5	7	16880	2570	1	1560	431	1	540	1	1270	26	1	12	1	1	10.0	35	1	1	1	51	93
14646	3.4	3270	551	1	142	.2	1	2570	8.5	11	28	48190	2880	1	240	151	1	150	1	950	137	28	8	1	1	6.5	423	1	1	1	62	209
14647	1.2	3360	165	1	112	.3	1	4520	1.2	9	13	25800	2910	1	390	161	1	140	1	960	50	3	9	1	1	8.0	93	1	1	2	60	202
14648	1.8	2950	208	1	91	.2	1	8100	2.7	9	13	26540	2400	1	1170	492	1	190	1	1090	73	6	22	1	1	8.7	56	1	1	1	39	170
14649	1.5	6960	90	1	97	.5	1	5830	1.5	9	50	25040	2980	3	3120	502	1	180	1	840	60	1	14	1	1	13.4	226	2	1	1	37	129
14650	.7	8370	37	1	82	.7	1	8750	.3	7	5	21260	3200	4	5670	1003	1	140	2	600	14	1	9	1	1	9.3	37	1	1	1	10	98
14651	.6	9340	24	1	109	.5	1	7960	.1	7	3	25670	3340	5	5730	954	1	240	1	570	17	1	10	1	1	11.3	40	1	1	1	20	46
14652	.5	9100	46	1	107	.8	1	5130	1.2	9	3	27490	2730	5	4530	686	1	150	1	680	14	1	10	1	1	11.1	34	1	1	1	6	77
14653	.4	9550	62	1	142	.5	1	4970	.2	7	49	25010	3650	3	3390	491	1	170	1	560	18	1	12	1	1	10.6	34	1	1	1	21	114
14654	.5	9870	18	1	142	.7	1	5550	.1	7	6	23600	3490	4	4280	441	1	120	1	720	10	1	15	1	1	9.7	21	1	1	1	8	66
14655	1.9	14300	1	1	113	.1	2	31090	.1	10	9	29610	2340	10	14980	1881	1	330	6	880	24	1	26	1	1	20.6	62	1	1	1	1	74
14656	2.4	13180	1	1	91	.5	1	21470	.1	10	12	30350	2200	10	9710	999	1	470	4	860	33	1	22	1	1	20.8	42	1	1	1	1	100
14657	2.4	13520	8	1	185	.6	1	25640	.1	10	27	31330	2770	10	6920	787	1	390	1	790	41	2	36	1	1	21.3	60	2	1	1	1	198
14658	2.7	14030	1	1	279	.8	2	32370	.1	9	26	32140	2960	9	6660	976	1	410	5	870	37	3	45	1	1	24.3	63	2	1	1	1	164
14659	1.5	14730	9	1	131	.6	1	35640	.1	11	26	34640	2950	9	6800	864	2	390	7	930	37	3	43	1	1	26.8	57	2	1	1	1	86
14660	1.7	15470	34	1	318	.5	1	12600	.1	12	44	35510	4560	8	6330	539	1	560	5	950	55	5	21	1	1	27.8	56	1	1	1	1	78
14661	3.5	6230	182	1	165	.5	1	10080	5.1	10	164	35940	3870	1	980	447	1	940	1	730	357	15	28	1	1	14.2	997	1	1	1	16	230
14662	2.6	7460	195	1	176	.6	1	3310	1.6	10	52	32270	4080	1	1730	217	1	540	5	760	119	12	13	1	1	14.0	37	1	1	1	1	208
14663	1.9	9930	210	1	132	.6	1	3410	.9	9	37	34980	3340	6	6630	550	1	480	2	900	130	9	11	1	1	17.9	51	1	1	1	11	275
14664	2.6	3480	262	1	112	.1	1	4630	7.7	8	90	30430	2370	1	900	298	1	480	2	690	314	15	13	1	1	7.4	959	1	1	1	29	422
14665	2.5	13310	252	1	127	.5	1	2870	2.3	11	41	44840	3080	9	10900	721	1	360	1	960	319	5	12	1	1	23.6	497	1	1	1	1	358
14666	2.0	8100	126	1	150	.4	1	2750	1.3	10	60	31370	3710	3	2960	329	1	890	4	880	173	8	12	1	1	16.7	494	1	1	1	7	186
14667	3.8	4910	222	1	133	.3	1	2660	6.2	10	158	37170	2960	1	610	143	2	490	2	750	507	18	11	1	1	10.4	942	1	1	1	13	358
14668	3.0	5700	157	1	125	.3	1	4590	1.0	11	51	36650	3290	1	1270	274	1	460	4	730	261	16	18	1	1	11.6	84	1	1	1	7	252
14669	2.2	16870	58	1	136	.7	2	4300	.1	13	42	41780	3970	11	14170	950	1	500	3	890	86	3	15	1	1	35.1	61	1	1	1	1	158
14670	4.0	18810	16	1	116	.4	1	6760	8.3	11	260	42500	3220	13	19330	1537	1	440	2	1020	1608	4	15	1	1	37.8	2187	1	1	1	12	119
14671	2.5	16620	124	1	121	.4	2	5280	5.8	10	62	43630	2980	13	16700	1170	1	500	1	980	321	5	18	1	1	33.8	1187	1	1	1	25	204
14672	9.6	5930	220	4	131	.1	3	4980	267.1	11	664	39850	2580	3	3810	688	7	490	2	1030	5478	28	21	1	1	13.7	52680	1	2	1	47	336
14673	4.5	3610	264	1	132	.1	1	2310	12.0	13	160	47490	2180	1	1080	216	1	1090	1	760	3044	22	11	1	1	11.0	1959	1	1	1	26	345
14674	2.3	6210	200	1	141	.1	1	3550	.5	12	46	40160	2070	3	3970	492	1	630	3	1060	343	14	14	1	1	28.8	186	1	1	2	71	264
14675	1.1	3810	91	1	142	.1	1	2970	.2	9	28	27710	1910	1	1800	341	1	500	2	820	134	10	11	1	1	13.3	159	1	1	2	82	122
14676	1.7	5780	154	1	156	.6	1	1980	.8	11	35	29770	3490	1	1330	152	1	440	6	700	156	10	10	1	1	15.3	120	1	1	1	44	247
14677	2.0	6700	105	1	134	.5	1	2250	1.6	10	35	31160	3350	2	2340	213	1	490	1	810	76	11	11	1	1	13.6	642	1	1	1	24	205
14678	1.9	6710	86	1	134	.2	1	2280	.1	9	59	33450	1940	4	4150	362	1	710	1	940	106	10	9	1	1	18.2	104	1	1	1	59	137
14679	1.7	5120	126	1	117	.1	1	1980	4.5	10	54	29940	2520	2	2260	214	1	570	2	720	247	12	8	1	1	11.4	754	1	1	1	41	298
14680	1.1	8410	49	1	122	.1	1	2340	.2	11	21	27830	2800	5	5060	364	1	470	6	820	53	7	8	1	1	27.3	23	1	1	1	41	91
14681	1.2	8630	57	1	82	.1	1	6520	.1	10	23	28610	1710	6	7620	645	1	660	5	1100	89	6	20	1	1	34.6	86	1	1	1	46	79
14682	1.5	9000	274	1	99	.1	1	6740	3.1	11	24	39160	2120	6	7430	863	1	660	2	920	195	7	22	1	1	36.5	220	1	1	1	57	398
14683	1.5	7360	79	1	106	.1	1	3770	.5	11	22	29570	3070	4	4010	352	1	450	2	910	412	7	14	1	1	19.6	234	1	1	1	30	118
14684	2.0	8790	92	1	177	.1	1	2200	1.4	13	30	37190	4170	3	3030	213	1	460	4	760	157	10	11	1	1	17.6	40	1	1	1	6	162
14685	2.2	10240	77	1	159	.5	1	3250	.1	11	31	34490	4640	4	3910	299	1	360	4	1120	116	7	13	1	1	18.6	67	1	1	1	3	127
14686	2.2	7320	91	1	130	.4	1	5170	.1	12	37	34890	3540	2	2610	346	1	470	2	870	93	10	12	1	1	15.5	17	1	1	1	12	172

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: D.COPELAND/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-17

FILE NO: OS-0507-RJ3
DATE: 90/09/21
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
14687 90-17	2.3	5890	103	1	146	.1	1	3440	6.4	10	28	30390	3120	1	1720	215	1	230	3	740	569	8	13	1	1	14.3	1148	1	3	1	37	178
14688	1.2	8690	63	1	115	.3	1	3400	.1	10	17	28650	2330	5	6520	561	1	200	5	800	75	4	11	1	1	35.1	35	1	5	2	49	154
14689	1.6	9520	111	1	112	.1	1	4850	1.1	11	20	37090	1880	8	9160	775	1	370	4	790	141	4	15	1	1	38.5	111	1	5	1	52	189
14690	2.3	6430	129	1	168	.2	1	2740	1.4	11	33	37060	3690	2	2170	301	1	430	1	750	112	11	12	1	1	20.7	25	1	3	1	50	194
14691	4.5	11980	142	1	121	.1	1	5070	39.7	11	540	46760	2120	9	11770	922	1	290	3	730	1524	11	16	1	1	35.3	7084	1	4	1	47	202
14692	3.0	7920	103	1	137	.4	1	6430	1.3	11	37	36930	3310	3	4720	713	1	340	5	690	264	12	25	1	1	23.4	430	1	5	1	45	167
14693	2.6	3770	96	1	112	.1	1	3080	6.5	10	72	32030	2010	1	1870	326	1	400	8	770	264	13	13	1	1	14.1	1419	1	4	1	58	139
14694	3.6	6880	156	1	152	.4	1	2610	2.6	10	57	37850	3500	2	2140	189	3	290	11	800	1699	16	11	1	1	15.5	371	1	4	1	27	190
14695	2.9	5200	116	1	207	.1	1	2680	31.3	12	88	39310	2590	2	2170	267	2	260	5	770	1111	15	10	1	1	15.0	5536	1	2	1	55	164
14696	7.8	4610	202	1	169	.3	2	3340	94.6	12	208	38540	2140	2	2080	358	5	300	7	750	6156	27	14	1	1	14.1	18272	1	5	1	58	204
14697	4.0	5040	191	1	175	.4	1	1990	26.1	11	56	33280	2250	2	2480	281	2	260	2	580	2387	16	9	1	1	17.8	4314	1	5	1	63	239
14698	2.4	9680	258	1	161	.1	1	2880	7.2	16	97	52120	2040	7	7940	745	2	360	1	770	346	13	10	1	1	38.4	1511	1	5	1	35	353
14699	3.5	5100	218	1	147	.1	1	6510	.5	11	39	43270	1770	3	3340	482	1	380	2	880	158	18	17	1	1	21.0	146	1	4	2	57	253
14700	5.0	7400	179	1	182	.6	1	13960	12.0	11	349	40650	2360	4	4850	897	1	320	1	740	2039	14	33	1	1	19.7	1744	1	5	1	46	296
14701	2.4	14260	84	1	164	.8	1	7970	.8	12	38	34460	3460	7	8640	713	1	330	7	880	95	5	18	1	1	24.9	152	1	4	1	17	172
14702	2.2	13070	65	1	139	.9	1	11660	.2	11	39	33590	3020	7	6300	416	1	310	7	860	48	4	18	1	1	22.7	67	1	5	1	1	107
14703	1.4	16910	33	1	144	1.0	1	21990	.1	12	43	38950	2610	9	8080	640	1	300	3	840	78	1	35	1	1	30.5	145	1	4	1	1	115
14704	1.3	19690	1	1	192	.2	1	27230	.1	13	38	38510	3310	11	9050	767	1	410	4	830	26	1	41	1	1	37.2	65	1	4	1	1	12
14705	.7	18860	7	1	188	.5	1	17920	.1	13	37	36040	3210	10	8340	479	1	460	6	840	21	1	30	1	1	34.9	73	1	3	1	1	22
14706	1.0	19090	4	1	204	.8	1	32300	.1	12	33	38790	3010	11	8770	812	1	470	6	930	20	1	49	1	1	35.4	82	1	6	1	2	4
14707	.7	16350	1	1	178	.6	1	21280	.1	12	28	35550	2570	9	7560	452	1	430	2	830	22	1	33	1	1	32.2	75	1	4	1	1	1
14708	1.1	17260	1	1	129	.3	1	30490	.1	11	34	37490	2530	11	8360	715	1	440	3	770	21	1	39	1	1	32.8	82	1	5	1	1	26
14709	.7	18520	1	1	132	.6	1	26410	.1	13	27	38790	2350	11	9040	589	1	430	6	840	15	1	41	1	1	34.0	78	2	3	1	1	15

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-18

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 104B/9	CLAIM #	: SIB 2,1		
LOCAL GRID	: 11876.51 N / 10001.75 E	GLOBAL GRID	: 15808.95 N / 19371.26 E	ELEVATION	: 1130.79 metres
LENGTH	: 96.62 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 120.0 degrees
OVERBURDEN	: 7.32 m	CASING	: 7.32 metres.	ASSAYING BY	: Min-En Labs
LOGGED BY	: Guy Lepage	DRILLED BY	: J.T. Thomas	CORE LOCATION	: 101+00 N, 98+00 E
DATE LOGGED	: 1990/09/10 Y/M/D	DATE DRILLED	: 1990/09/08 Y/M/D	SAMPLE NO. SERIES	: 14710-14744 48094-48095

ACID TESTS

Depth	Dip	Azimuth
96.62	-45.0	304.0

SUMMARY LOG 90-18

From(m)	To(m)	Field Name (Legend)
0.00	7.32	CASING
7.32	96.62	SILICIFIED K-FELDSPAR FLOODED PLAGIOCLASE PORPHYRY TUFF (UNIT 11)
96.62		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-18

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
42.00	43.00	1.00	0.012	0.29	0.67	0.72
47.00	50.00	3.00	0.016			0.11

From(m)	To(m)	Description
0.00	7.32	CASING
7.32	96.62	SILICIFIED K-FELDSPAR FLOODED PLAGIOCLASE PORPHYRY TUFF (UNIT 11) Plagioclase Phenocrysts: Euhedral to subhedral sericitized to sausurritized, 1 to 2 mm in length(30%). Composition Groundmass: Fine grained, light to medium grey aphanitic siliceous. Structure Shearing: 60 degrees to core axis. Less silicified clasts long axis. Alteration K-feldspar: Locally flooded up to 80 to 90% Veins and Sub-Intervals Quartz-pyrite Veining. Core axis angle 60 degrees. Parallel to shearing. <7.32>-<23.90>: Cross cut by a minor pale green to creamish k-feldspar vein array at 60to 80 degrees to core axis (2 to 3%). Fine grained disseminated and occasional coarse euhedral blebs of pyrite (1 to 2%). Occasional quartz veins averaging 5 to 10 mm in width oriented parallel to shear orientation. <23.90>-<31.80>: Increase in local k-feldspar flooding and stockwork. Increase in quartz veining enclosing selvedges of flattened and oriented pyrite trace galena and chalcopyrite from variable to 60 to 70 degrees to core axis. Disseminated and bleb pyrite. pyrite 1 to 3%, galena 0.3 to 0.5%, trace chalcopyrite. <31.80>-<43.00>: Series of pyrite+-galena+-chalcopyrite+-sphalerite-quartz-k-feldspar veins from sub-parallel to 20 degrees to core axis (mean at 15 to 20 degrees to core axis) averaging at 1 to 2 cm in thickness. Pyrite 3 to 5%, galena 0.3 to 0.5%, trace chalcopyrite and sphalerite. <43.00>-<73.04>: Intense k-feldspar flooding 50 to 60%(upto 80 to 90% locally) Quartz-pyrite+-galena and k-feldspar veins cut unit at variable degrees to core axis. MIneralized zones at shallow degrees to core axis. Sheared fabric on less altered zones. Fine grained disseminated and euhedral bleb pyrite. Pyrite 3 to 7%, galena 0.5%, trace chalcopyrite and sphalerite. <73.04>-<77.25>: Less altered with melanocratic sections containing k-feldspar flooded plagioclase porphyry brecciated fragments. Pyrite 1%. <77.25>-<85.29>: As per 43.00 to 73.04 metres. Pyrite 3 to 5% in stockwork veins and euhedral blebs. <85.29>-<86.53>: Intense k-feldspar flooding crosscut by a pyrite-galena-sphalerite array in conjunction with a pale blue grey tuff assemblage. Pyrite 5 to 10%, galena 2 to 3%, trace sphalerite. <86.53>-<96.62>: As per 43.00-73.04 metres. Pyrite 5%, sphalerite 0.5-1.0%, trace galena.
96.62		END OF HOLE.

Hole No.: 90-18

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	7.32	7.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14710	7.32	11.00	3.68	-	-	1	-	-	.2	17	1	130	.1	39970	1	31	2	63
14711	11.00	14.00	3.00	-	-	1	-	-	.3	21	1	194	.1	38220	1	83	1	141
14712	14.00	17.00	3.00	-	-	18	-	-	.8	223	1	167	.4	36400	1	176	2	312
14713	17.00	20.00	3.00	-	-	5	-	-	.5	73	1	131	1.7	43290	1	564	1	595
14714	20.00	23.00	3.00	-	-	4	-	-	.4	26	1	169	.1	38700	1	195	1	262
14715	23.00	26.00	3.00	-	-	21	-	-	1.0	98	20	192	7.1	40470	1	842	5	1273
14716	26.00	29.00	3.00	-	-	2	-	-	.4	43	1	145	1.0	42840	1	301	6	644
14717	29.00	32.00	3.00	-	-	22	-	-	1.8	303	4	193	4.9	43740	1	1371	7	1207
14718	32.00	35.00	3.00	-	-	32	-	-	.7	51	1	123	1.8	32840	1	571	1	527
14719	35.00	38.00	3.00	-	-	10	-	-	1.2	118	1	177	3.1	40570	1	794	1	1001
14720	38.00	41.00	3.00	-	-	166	-	-	4.5	432	584	207	25.2	49580	1	1973	20	3273
14721	41.00	42.00	1.00	-	-	88	-	-	2.2	196	244	202	5.5	42440	1	460	14	665
14722	42.00	43.00	1.00	-	-	422	-	-	10.0	1101	680	199	40.2	56460	1	6682	37	7193
14723	43.00	44.00	1.00	-	-	15	-	-	1.2	66	173	205	5.0	37350	1	343	6	511
14724	44.00	45.00	1.00	-	-	6	-	-	.9	77	56	230	2.0	38640	1	315	3	303
14725	45.00	46.00	1.00	-	-	76	-	-	1.1	27	59	165	.1	32540	1	453	2	170
14726	46.00	47.00	1.00	-	-	1	-	-	1.7	133	1	106	1.9	39080	1	559	1	527
14727	47.00	50.00	3.00	-	-	562	-	-	2.9	112	1186	133	20.6	36480	1	697	4	1098
14728	50.00	53.00	3.00	-	-	108	-	-	2.2	65	104	118	3.4	41350	1	548	1	623
14729	53.00	56.00	3.00	-	-	94	-	-	.4	9	93	125	.1	37650	1	41	1	43
14730	56.00	59.00	3.00	-	-	32	-	-	.8	8	49	113	.1	38870	2	35	1	60
14731	59.00	62.00	3.00	-	-	58	-	-	1.3	19	138	130	.2	38600	1	266	2	238
14732	62.00	65.00	3.00	-	-	115	-	-	1.3	36	139	163	.9	34690	1	69	10	91
14733	65.00	68.00	3.00	-	-	70	-	-	1.1	53	57	122	1.9	32830	1	151	2	190
14734	68.00	71.00	3.00	-	-	76	-	-	1.0	21	148	137	2.7	27330	2	53	3	85
14735	71.00	74.00	3.00	-	-	106	-	-	.7	26	122	108	1.9	32970	1	47	4	68
14736	74.00	77.00	3.00	-	-	60	-	-	1.1	11	156	114	1.0	40550	1	64	11	70
14737	77.00	80.00	3.00	-	-	97	-	-	1.1	11	137	112	2.1	39120	1	67	12	71
14738	80.00	83.00	3.00	-	-	232	-	-	1.0	14	473	108	6.8	38830	1	191	12	235
14739	83.00	85.29	2.29	-	-	289	-	-	1.0	14	356	195	3.9	29750	1	163	10	96
14740	85.29	85.65	.36	-	-	229	-	-	4.2	39	638	162	12.9	36400	1	1485	43	611
48094	85.29	86.53	1.24	-	-	297	-	-	6.5	206	535	192	21.8	50880	1	2197	44	2677
48095	86.53	87.50	.97	-	-	410	-	-	2.1	106	496	155	12.3	35760	1	611	18	736
14741	85.65	89.00	3.35	-	-	322	-	-	3.1	106	582	142	13.5	31830	1	842	14	1403
14742	89.00	92.00	3.00	-	-	329	-	-	1.1	20	685	177	14.6	32350	1	96	7	83
14743	92.00	95.00	3.00	-	-	9	-	-	1.4	36	261	187	6.5	32740	1	553	5	477
14744	95.00	96.62	1.62	-	-	257	-	-	1.5	18	346	224	4.8	30820	1	265	5	218

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: D.COPELAND/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-18

FILE NO: OS-0536-RJ1+2
DATE: 90/09/25
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
14710	.2	14020	1	2	130	.9	2	16230	.1	14	17	39970	3850	8	10440	2942	1	270	2	1680	31	2	14	1	1	35.2	63	1	2	1	1	1
14711	.3	13860	1	1	194	.8	2	14220	.1	13	21	38220	4650	6	9640	2493	1	310	1	1590	83	1	14	1	1	36.0	141	1	1	1	6	1
14712	.8	12960	1	1	167	.3	2	14220	.4	14	223	36400	3640	7	9200	2707	1	260	4	1550	176	2	17	1	1	34.7	312	1	1	1	1	18
14713	.5	14100	1	1	131	.8	2	18840	1.7	13	73	43290	3100	10	13040	3685	1	270	3	1660	564	1	21	1	1	43.5	595	1	4	1	1	5
14714	.4	16660	1	1	169	1.1	2	15070	.1	13	26	38700	4030	11	13220	2695	1	280	2	1580	195	1	13	1	1	45.5	262	1	1	1	1	4
14715	1.0	18940	20	1	192	1.3	1	7280	7.1	13	98	40470	3450	13	13140	1746	1	320	1	1390	842	5	13	1	1	56.1	1273	1	2	1	1	21
14716	.4	16170	1	1	145	.9	1	13720	1.0	13	43	42840	3210	11	14040	3350	1	290	1	1400	301	6	20	1	1	53.1	644	1	1	1	1	2
14717	1.8	16770	4	1	193	.9	2	8190	4.9	15	303	43740	3730	10	10080	1996	1	240	1	1550	1371	7	11	1	1	46.8	1207	1	1	1	1	22
14718	.7	13960	1	1	123	.7	2	6520	1.8	11	51	32840	2360	8	9780	1747	1	180	1	1070	571	1	9	1	1	42.7	527	1	1	1	1	32
14719	1.2	17770	1	1	177	.7	1	5410	3.1	14	118	40570	3280	10	10690	1543	1	270	1	1440	794	1	10	1	1	54.8	1001	2	1	1	1	10
14720	4.5	16600	584	1	207	1.2	2	6850	25.2	15	432	49580	4280	8	8410	1634	1	230	1	1390	1973	20	14	1	1	45.5	3273	2	2	1	1	166
14721	2.2	17220	244	1	202	.8	1	9060	5.5	15	196	42440	4340	9	9050	1989	1	270	1	1420	460	14	15	1	1	49.5	665	1	1	1	1	88
14722	10.0	15660	680	2	199	.9	2	7480	40.2	21	1101	56460	4870	7	6880	1748	1	200	2	1220	6682	37	10	1	1	37.6	7193	1	4	1	1	422
14723	1.2	16230	173	1	205	1.1	2	6750	5.0	15	66	37350	5180	7	7170	1264	1	220	1	1420	343	6	10	1	1	39.5	511	1	1	1	1	15
14724	.9	19130	56	1	230	1.3	2	6830	2.0	13	77	38640	5850	8	8230	1349	1	260	1	1430	315	3	9	1	1	44.2	303	1	1	1	1	6
14725	1.1	14540	59	1	165	.7	2	6120	.1	12	27	32540	4510	7	6230	1175	1	280	1	1330	453	2	9	1	1	34.2	170	1	1	1	2	76
14732	1.3	9080	139	1	163	.4	2	5000	.9	13	36	34690	5070	2	4060	586	1	140	1	1480	69	10	13	1	1	23.5	91	1	1	1	8	115
14733	1.1	11590	57	1	122	.6	1	5500	1.9	14	53	32830	5460	4	5570	689	1	120	1	1470	151	2	10	1	1	23.2	190	1	1	1	1	70
14734	1.0	9480	148	1	137	.6	1	3880	2.7	11	21	27330	5030	3	2800	271	2	120	1	1430	53	3	10	1	1	22.0	85	1	1	1	3	76
14735	.7	13360	122	1	108	1.2	1	4080	1.9	12	26	32970	4950	8	8000	582	1	100	1	1420	47	4	11	1	1	29.3	68	1	1	1	1	106
14736	1.1	8580	156	4	114	.9	2	9510	1.0	11	11	40550	4930	2	8060	1004	1	130	1	1420	64	11	37	1	1	21.4	70	2	1	1	1	60
14737	1.1	8350	137	4	112	.9	2	9260	2.1	11	11	39120	4710	2	7800	975	1	130	1	1390	67	12	36	1	1	21.0	71	1	2	1	1	97
14738	1.0	7480	473	3	108	.8	1	4300	6.8	14	14	38830	4860	1	2500	350	1	110	1	1400	191	12	13	1	1	19.1	235	1	1	1	1	232
14739	1.0	6330	356	1	195	.9	1	3060	3.9	10	14	29750	4590	1	640	40	1	80	1	1170	163	10	9	1	1	15.7	96	1	1	1	23	289
14740	4.2	5960	638	1	162	.9	1	2530	12.9	11	39	36400	4260	1	510	22	1	50	1	1060	1485	43	9	1	1	15.0	611	1	1	1	28	229
14741	3.1	6170	582	1	142	.7	1	3040	13.5	11	106	31830	4210	1	550	22	1	50	1	1230	842	14	9	1	1	14.0	1403	1	1	1	19	322
14742	1.1	6870	685	1	177	.7	1	3580	14.6	13	20	32350	4920	1	580	24	1	50	1	1430	96	7	10	1	1	13.7	83	1	1	1	6	329
14743	1.4	8440	261	1	187	.8	1	3640	6.5	12	36	32740	5890	1	930	78	1	90	1	1410	553	5	11	1	1	17.7	477	1	2	1	16	9
14744	1.5	10100	346	1	224	.8	1	3910	4.8	13	18	30820	6430	1	1120	68	1	70	1	1470	265	5	13	1	1	19.4	218	1	1	1	13	257
14726	1.7	13400	1	1	106	.3	1	7730	1.9	14	133	39080	2150	9	8420	1674	1	250	1	1410	559	1	12	1	1	54.9	527	1	1	1	39	1
14727	2.9	10380	1186	1	133	.5	1	6330	20.6	13	112	36480	3010	6	4730	1420	1	210	1	1510	697	4	16	1	1	29.2	1098	1	1	1	23	562
14728	2.2	11350	104	1	118	.1	1	9080	3.4	14	65	41350	2760	8	7150	1918	1	240	1	1910	548	1	17	1	1	37.8	623	1	1	1	36	108
14729	.4	13130	93	1	125	.3	1	10410	.1	12	9	37650	4500	7	8690	1460	1	190	1	1490	41	1	17	1	1	27.3	43	1	1	1	43	94
14730	.8	11750	49	1	113	.2	1	8770	.1	13	8	38870	2710	8	9340	1197	2	220	1	1420	35	1	14	1	1	31.8	60	2	1	1	28	32
14731	1.3	7070	138	1	130	.1	1	9240	.2	14	19	38600	2780	3	6800	1083	1	170	1	1330	266	2	24	1	1	21.4	238	1	1	1	35	58
48094	6.5	5990	535	3	192	1.5	2	2840	21.8	16	206	50880	4100	1	960	30	1	90	1	1030	2197	44	9	1	1	19.1	2677	1	2	1	10	297
48095	2.1	10080	496	2	155	1.4	2	4040	12.3	13	106	35760	6260	1	1190	33	1	120	1	1460	611	18	10	1	1	23.0	736	1	1	1	6	410

CEC ENGINEERING LTD REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-19

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	:	104B/9	CLAIM #	:	SIB 1		
LOCAL GRID	:	11874.13 N / 10044.85 E	GLOBAL GRID	:	15787.43 N / 19408.68 E		
LENGTH	:	224.94 m	INCLINATION	:	-45.0 degrees	ELEVATION	: 1122.09 metres
OVERBURDEN	:	5.30 m	CASING	:	5.3 metres	AZIMUTH	: 117.0 degrees
LOGGED BY	:	Guy Lepage	DRILLED BY	:	J.T. Thomas	ASSAYING BY	: Min-En Labs
DATE LOGGED	:	1990/09/14 Y/M/D	DATE DRILLED	:	1990/09/09 Y/M/D	CORE LOCATION:	101+00 N, 98+00 E
						SAMPLE NO. SERIES:	48039-48093 48096-48141

SUMMARY LOG 90-19

From(m)	To(m)	Field Name (Legend)
0.00	5.30	CASING
5.30	25.20	ARGILLACEOUS SHALE (UNIT 12)
25.20	25.50	WACKE (UNIT 15)
25.50	42.44	ARGILLACOUS SHALE grading to SILTY SHALE (UNIT 12)
42.44	45.00	WACKE (UNIT 15)
45.00	51.10	SILTSTONE (ARGILLACEOUS) (UNIT 12)
51.10	53.10	SHEARED PLAGIOCLASE PORPHYRY TUFF (UNIT 11)
53.10	60.25	ARGILLITE (MUDSTONE GRADING TO SILTY SANDSTONE) (UNIT 12)
60.25	72.19	SERICITIZED AND BRECCIATED PLAGIOCLASE PORPHYRY TUFF (UNIT 11)
72.19	73.35	TUFF (UNIT 11)
73.35	81.65	PLAGIOCLASE PORPHYRY TUFF +- BRECCIA (UNIT 11)
81.65	107.20	LAPILLI FRAGMENTAL TUFF (UNIT 11)
107.20	168.22	POTASSIUM FLOODED SILICIFIED PLAGIOCLASE PORPHYRY TUFF (UNIT 11)
168.22	182.05	FRAGMENTAL TUFF (UNIT 11)
182.05	224.94	PLAGIOCLASE PORPHYRY TUFF (UNIT 11)
224.94		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-19

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
47.00	49.00	2.00	0.012	0.22	0.41	0.54
85.00	91.00	6.00	0.021			
97.00	99.00	2.00	0.013			
184.00	186.00	2.00	0.018			

From(m)	To(m)	Description
0.00	5.30	CASING
5.30	25.20	ARGILLACEOUS SHALE (UNIT 12) Colour: black . Grain Size: Aphanitic. Composition Shale: Argillaceous with occasional interbeds of felsic and quartzose silt size zones at 50 to 60 degrees to core axis. Beds average 1 to 2 mm thickness. Structure Jointing: 30 to 70 degrees to core axis Lower contact: Unclear. Alteration Carbonitized: Strong. throughout (10%). Mineralization Pyrite: Trace to 1%. Fine grained disseminated and occasional euhedral blebs 2 to 4 mm wide. Sub-Intervals <14.50>-<18.00>: FAULT. Bottom contact at 70 degrees to core axis. Locally sheared throughout, contains minor calcite/iron carbonate stringers at variable degrees to core axis.
25.20	25.50	WACKE (UNIT 15) Composition Wacke: Unit consists of felsic and quartzose zones(70-30 ratio), poorly sorted with sand size grains. Barren and massive. Structure Contact: 60 to 70 degrees to core axis bottom Alteration Carbonitized: Strong. 15 to 20%
25.50	42.44	ARGILLACOUS SHALE grading to SILTY SHALE (UNIT 12) Composition Fragments: upper and lower contact contain occasional wacke fragments. Lithology: Unit is similar to 5.30 to 25.20 metres but with increased abundance of silty over finer grained argillaceous layers. Occasional plagioclase phenocrysts towards upper contact(intrusive or from wacke?). Structure Bedding: 40 to 50 degrees to core axis defined by alternating quartz plagioclase layer. Jointing: 40 to 45 degrees to core axis Also 60 to 70 degrees to core axis. Planar deformation has occurred at sub-parallel to 10 degrees to core axis. Excellent shear criteria indicate a right lateral offset annealed by quartz and calcite. Becoming increasingly deformed towards lower contact.

From(m)	To(m)	Description
		Mineralization Pyrite: Trace to 1%. Fine grained disseminated throughout and veins oriented roughly parallel to bedding averaging 0.5 to 0.8 mm in width. Approximately 20 to 30 veins per metre throughtout.
42.44	45.00	WACKE (UNIT 15) Composition Wacke: Similar to previous description. Structure Bedding: 50 to 60 degrees to core axis Consists of alternating quartz feldspar rich layers averaging 3 to 5 mm in true width. Facing appears to be fining upwards fron a coarse sandstone to a silty sandstone to silty shales. Jointing: 50 to 60 degrees to core axis Mostly parallel to bedding planes. Minor calcite and quartz+-iron carbonate veins that crosscut the interval sub-parallel to 10 to 15 degrees to core axis averaging 3 to 4 mm in width. Alteration Carbonitized: Weak. Mineralization Pyrite: Trace. blebs and clusters
45.00	51.10	SILTSTONE (ARGILLACEOUS) (UNIT 12) Colour: dark grey to light grey. Grain Size: Fine. Composition Siltstone: Interbedded with minor argillaceous units(10%). Alternating laminae of quartz and feldspar (0.5 to 1.0 mm average width) at 45 to 50 degrees to core axis. Structure Shearing: 15 to 20 degrees to core axis Increasingly deformed towards upper contact localized shearing and brecciated over 10 to 15 cm averaging 4 to 7mm width. Crosscut by minor high angle quartz calcite veins averaging 3 mm width. Chloritic shears from 48.00 to 48.50 metres. Alteration Potassic: Weak. Veining. Chloritic: 1 to 2 mm shears at 20 degrees to core axis. Mineralization Pyrite: 3 to 4%. Blebs, disseminated(rare), with chloritic shears at 20 degrees to core axis from 1 to 15 mm wide with an average of 6 mm width, also in high angle quartz veins at 60 to 80 degrees to core axis from 1 to 8 mm wide with an average width of 3 to 4 mm. Galena: 1 to 2%. Selvedges within pyrite +- chlorite. Sphalerite: Trace to 1%. Selvedges within pyrite. Sub-Intervals <45.00>-<47.30>: 20 veins per metre. <47.30>-<51.00>: >50 veins per metre.

From(m)	To(m)	Description
51.10	53.10	SHEARED PLAGIOCLASE PORPHYRY TUFF (UNIT 11) Composition Groundmass: Black to greenish black, aphanitic, chloritic/felsic rich. Clasts: Selvedges of flattened and oriented, strongly sericitized plagioclase porphyry, 3 to 20 mm in length (average 15 mm). Structure Shearing: 60 to 65 degrees to core axis Long axis of clasts orientation parallels planar deformation. Contact: Upper is strongly gouged and brecciated, strong chloritic sericitic alteration. Contact: Lower is brecciated. Mineralization Pyrite: 1 to 2%. Flattened and oriented grains parallel to shear orientation, selvedges within quartz veins averaging 30 mm wide, frequency 1-2 per metre. Veins Quartz-carbonate Veining. Core axis angle variable. iron carbonate rich stringers.
53.10	60.25	ARGILLITE (MUDSTONE GRADING TO SILTY SANDSTONE) (UNIT 12) Colour: green black to black grey. Composition Argillite: Fine felsic and quartzose mudstone size grains. Fragments: Argillite within quartz stockwork appear to have high k-feldspar content. Chlorite: 2 to 3%. Structure Jointing: 45 to 50 degrees to core axis Bedding: 20 degrees to core axis also the orientation of most intrusive quartz veins and stockwork. Lower contact: 20 degrees to core axis Sheared and brecciated. Alteration K-feldspar: Strong. 10 to 20% of the unit, however it is unclear if it is primary or secondary, upto 60% in selvedges within quartz stockwork, no gradations are detectable.

From(m) To(m) ----------Description----------

Mineralization
Pyrite: 5 to 7%. fine grained disseminated specks, selvedges within quartz veins and stockwork
Galena: 1 to 2%. associated with pyrite as selvedges within stockwork
Sphalerite: Trace to 10%. associated with pyrite as selvedges within stockwork
Chalcopyrite: Trace. associated with pyrite as selvedges within stockwork
Veins and Sub-Intervals
Quartz Veining. Core axis angle variable to 25 degrees. Veins and stockwork from 1 to 2 mm upto 25 mm in width, average 4 to 5 mm, comprise upto 10 to 15% of the unit by volume.
<59.40>-<61.25>: General decrease in quartz veining and stockwork (5% by volume) .Pyrite 1-2% as selvedges within sheared bands and blebs. Trace chalcopyrite and sphalerite as disseminations. Grading to silty sandstone towards the lower contact.

60.25 72.19 SERICITIZED AND BRECCIATED PLAGIOCLASE PORPHYRY TUFF (UNIT 11)
Plagioclase Phenocrysts: euhedral to subhedral, strongly sericitic, averaging 2 to 3 mm in length(35%).
Composition
Matrix: Pale green sericitic to dark green sericite/plagioclase, fine grained.
Interbedding: 5 to 7% black to grey green black well laminated argillaceous units averaging 10 to 20 cm in width which host sericitized plagioclase porphyry clasts averaging 2 to 3cm in width (20 to 30% of argillaceous unit).
Structure
Jointing: 60 to 65 degrees to core axis
Per metre: 20 to 25 degrees to core axis mostly affecting less competent argillaceous units. 60.25 to 62.04 m. is strongly sheared and consists of alternating siliceous sericitic + minor chloritic layers.
Alteration
Sericite: Strong. 40 to 50% , minor potassic veining. Characteristic of 60.35 to 65.91 metres. General decrease in sericitization downhole to bottom contact (5 to 10%) and minor k-feldspar alteration.
K-feldspar: Strong. From 65.91 to 66.50 m intense flooding(30 to 60%), 10 to 15% sericitization.
Mineralization
Pyrite: 1 to 3%. Fine grained disseminated and clusters, mostly associated with argillaceous units and clasts boundaries. Veins average 5 mm wide(up to 1 to 2 cm wide) at variable degrees to core axis. Selvedges in quartz veins at 40 degrees to core axis. Below 70.31 metres 3 to 5 % disseminated and bleb pyrite.

From(m)	To(m)	Description
72.19	73.35	TUFF (UNIT 11) Structure Bedding: 65 degrees to core axis Well bedded, average between 2 to 4 mm in thickness, alternating felsic/quartzose layers giving rise to light grey to grey black layers. Jointing: 65 degrees to core axis Parallel to bedding. Upper contact: Unclear. Lower contact: Unclear. Alteration Silicification: Weak. K-feldspar: Weak. Minor veining. Mineralization Pyrite: 1 to 2%. Blebs and laminae(syngenetic/diagenetic) at 65 degrees to core axis. 1 to 5 mm in wide averaging 3 mm. Veins Quartz Veining. Core axis angle variable. Along with k-feldspar and calcite veins averaging 1 to 2 mm width.
73.35	81.65	PLAGIOCLASE PORPHYRY TUFF +- BRECCIA (UNIT 11) Composition -: Similar to 60.25 to 72.19 metres. Structure Jointing: 45 to 55 degrees to core axis Alteration K-feldspar: Strong. 80 to 90% secondary k-feldspar. Mineralization Pyrite: 2 to 3%. In conjunction with chlorite, primarily as veins oriented at 65 degrees to core axis (diagenetic) from 1 to 10 mm wide with average width 2 to 3 mm (frequency 2 to 3 per metre). Chlorite and minor pyrite form stockwork of net veins throughout. Veins Quartz-carbonate Veining. Core axis angle variable. Numerous hairline veins(15 to 20 per metre).

From(m)	To(m)	Description
81.65	107.20	LAPILLI FRAGMENTAL TUFF (UNIT 11) Plagioclase Phenocrysts: Euhedral to subhedral, strongly sericitized (35 to 40%), 1 to 2 mm in length. Composition Groundmass: Green grey to pale green, aphanitic, sericite/plagioclase rich. Clasts: 10 to 15%. Coarse, angular to sub angular, lapilli size tuff clasts. Structure Jointing: 20 to 60 degrees to core axis and 70 degrees to core axis. Annealed with iron carbonate veins averaging 2 to 3 mm in width. Alteration Silicification: Strong. Throughout Sericite: Strong to Trace. Throughtout K-feldspar: Minor (1 to 2%) veinlets. Mineralization Pyrite: 1 to 2%. To 96.50 metres. Descrete veinlets at 60 degrees to core axis in argillaceous layers averging 2 to 3mm wide and as descrete blebs. Tuffaceous horizons contain veins averaging 1 to 2 mm in width. Some chlorite veins high angle to the core axis averaging 2 to 3 mm in width. Arsenopyrite: 2 to 3%. From 97.75 to 98.25 metres as disseminations and clusters adjacen to quartz-carbonate veins and in k-feldspar flooded zones. Moving away from the veins there is a marked drop locally and an increase in pyrite content. Pyrite: 3 to 4%. To 107.20 metres in net veins 4 to 8mm thick at 65 degrees to core axis. Sub-Intervals <81.65>-<87.60>: 20 to 30 % interbedded well laminated argillite enclosing floating brecciated sericitic tuff fragments 2 to 3 cm wide. <96.50>-<107.20>: Lapilli clasts have increased potassic flooding(up to 70 to 80 %). Increased fracturing. Jointing at 50 degrees to core axis. Numerous quartz-carbonate veins at 20 to 25 degrees to core axis. Pyrite 3 to 4% in net veins +- chlorite(2 to 3 mm width at 60 to 70 degrees to core axis).

From(m)	To(m)	Description
107.20	168.22	POTASSIUM FLOODED SILICIFIED PLAGIOCLASE PORPHYRY TUFF (UNIT 11) Plagioclase Phenocrysts: Euhedral to subhedral, sericitic, 1 to 2 mm in length (35%). Difficult to discern due to silicification and k-feldspar alteration. Composition Groundmass: Fine grained, aphanitic, plagioclase rich. Structure Jointing: 40 and 20 degrees to core axis. Ocassionaly 60 to 65 degrees to core axis. Alteration Potassic: Strong. From 107.20 to 117.60. Overprinted entire unit which has in turn been overprinted by minor k-feldspar stockwork veins oriented at variable degrees to core axis. Potassic alteration 60 to 70 %. Secondary k-feldspar 50 to 60 %. K-feldspar flooding increases downhole from 117.60 to 168.22 m. Mineralization Pyrite: 3 to 4%. Disseminated, blebs, net veins and veins oriented at 60 to 65 degrees to core axis from 1 to 5 mm wide with average 3 to 4 mm wide. Slight increase in fracture control Mineralization towards 117.60 m. Veins and Sub-Intervals <117.60>-<168.22>: Quartz fe-carbonate calcite k-spar Veining. Core axis angle 5 to 20 degrees. Numerous, coincident with jointing at 40 to 65 degrees to core axis. Frequency of 50 to 100 veins towards the lower contact. Increased sericite and net veins averaging 1 to 2 mm in width over several cms at 5 to 20 degrees to core axis and 70 to 80 degrees to core axis. <117.60>-<142.50>: Pyrite 3 to 4 % as fine grained disseminated, euhedral blebs and in stockwork or net veins averaging 2 mm with a range from 0.5 to 4 mm in width at high angles to degrees to core axis. Invariable associated with chlorite(2 to 3%) +- k-feldspar. Trace galena in quartz-pyrite vein with chlorite at 132.50 m. <142.50>-<168.22>: Pyrite 3 to 5%, coarse euhedral blebs isolated and in flat lying veins from 2 to 6 mm wide with an average width of3 to 4 mm oriented at 20 to 30 degrees to core axis and less commonly at 60 to 65 degrees to core axis. Sulphides not associated with quartz-iron carbonate+-chlorite stockwork.

From(m)	To(m)	Description
168.22	182.05	FRAGMENTAL TUFF (UNIT 11) Composition Clasts: Heterolithic assortment from 2 to 3 mm up to 30 to 40 mm with an average 20 to 25 mm in width. Composed of plagioclase porphyry. Overall clasts comprise 30% of interval. Groundmass: Dark green, aphanitic, chlorite rich with 75% clasts grading to fine grained k-feldspar rich matrix. Consists of variable amounts of k-feldspar (primary?) 20 to 25%, plagioclase 30 to 40% and chlorite 5 to 10% occuring as an interbedded grey to grey pink assemblege. Structure Shearing: Becoming more intense along with alteration towards lower contact. Lower contact: 30 to 55 degrees to core axis Alteration K-feldspar: 80 to 90 % near lower contact Mineralization Pyrite: 4 to 5%. Coarse euhedral blebs associated with clasts and to a lesser extent with groundmass. Veins 3 to 10 mm wide averaging 4 mm wide at 10 to 30 degrees to core axis appear to be recrystallized to euhedral with a frequency of 7 to 10 per metre. Sphalerite: 1%. Flattened and oriented grains in occasional flat lying quartz veins. Veins Quartz Veining. 20 and 70 degrees to core axis. +-Iron+-carbonate +- calcite. Cross cuts unit. Average width 2 to 5 mm. 50 per metre.
182.05	224.94	PLAGIOCLASE PORPHYRY TUFF (UNIT 11) Plagioclase Phenocrysts: Euhedral to subhedral, moderately sericitized, average 3 to 4 mm in width. Comprise from 25 to 35% of the unit with an average of 30%. Composition Groundmass: Light to mid grey, aphanitic, plagioclase and k-feldspar rich. Structure Jointing: Sub-parallel Shearing: Sub-parallel to degrees to core axis from 193.90 to 195.22 metres. Alteration K-feldspar: Strong. Most intense from 182.05 to 195.22 metres, pervasive, accountint for 40 to 50 % of the interval. Mineralization Pyrite: 3 to 4%. In veins associated with chlorite or as selvedges within quartz veins. Veins average 3 to 4 mm in width and range from 1 to 10 mm with a preferred orientation of 20 to 25 degrees to core axis. Frequencey > 50 per metre. Sphalerite: Trace to 1%. Flattened and oriented grains and selvedges within quartz veins. Also as disseminations and blebs.

From(m) To(m) ----------Description----------

Quartz-carbonate Veining. Core axis angle 20 to 25 degrees. Grade to sub-parallel towards 195.22 m.

<193.90>-<195.22>: Pyrite (3 to 4%), galena (1 to 3%), sphalerite (1 to 2%) occur as flattened and oriented grains interspersed with chlorite and as selvedges within quartz +- k-feldspar veins sub-parallel to 20 degrees to core axis. Average width 2 mm ranging from 0.5 to 4 mm.

<195.22>-<224.94>: Decreased potassic alteration. Textures and plagioclase phenocrysts become more distinct. Staining indicates k-feldspar accounts for 30 to 40% of the groundmass near the upper contact grading to 20% towards the lower contact. Jointing at 60 to 65 and 20 degrees to core axis. Pyrite 3 to 4% as euhedral blebs and fine grained disseminated.

224.94 END OF HOLE.

Hole No.: 90-19

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	5.30	5.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48039	5.30	9.00	3.70	-	-	58	-	-	7.7	77	71	101	2.3	37430	2	1644	10	202
48040	9.00	12.00	3.00	-	-	142	-	-	2.0	48	47	87	.1	42150	1	192	6	96
48041	12.00	15.00	3.00	-	-	94	-	-	2.3	71	64	111	1.2	44310	1	149	7	95
48042	15.00	18.00	3.00	-	-	86	-	-	2.5	63	65	118	.8	43480	1	99	6	77
48043	18.00	21.00	3.00	-	-	57	-	-	2.6	41	32	92	.1	41500	1	86	10	88
48044	21.00	24.00	3.00	-	-	43	-	-	1.7	49	40	122	.1	43960	1	51	9	85
48045	24.00	27.00	3.00	-	-	55	-	-	2.1	34	43	115	.1	37260	1	63	9	70
48046	27.00	30.00	3.00	-	-	58	-	-	1.8	38	36	125	.1	36450	1	50	7	78
48047	30.00	33.00	3.00	-	-	56	-	-	2.0	42	40	101	.1	38850	1	61	7	86
48048	33.00	36.00	3.00	-	-	39	-	-	1.4	59	66	102	.3	38410	1	54	7	96
48049	36.00	39.00	3.00	-	-	26	-	-	1.0	42	18	93	.1	38370	1	60	5	86
48050	39.00	42.00	3.00	-	-	42	-	-	1.6	33	37	111	.1	37180	1	57	9	89
48051	42.00	45.00	3.00	-	-	18	-	-	.7	14	1	102	.1	36240	2	50	2	69
48052	45.00	46.00	1.00	-	-	124	-	-	2.0	41	78	102	.5	41220	1	148	14	124
48053	46.00	47.00	1.00	-	-	100	-	-	2.6	28	97	110	.3	39100	3	92	13	72
48054	47.00	48.00	1.00	-	-	322	-	-	6.7	123	173	99	17.2	39140	2	2878	25	3032
48055	48.00	49.00	1.00	-	-	472	-	-	8.6	417	460	96	51.2	51120	3	5238	35	7740
48056	49.00	50.00	1.00	-	-	254	-	-	4.7	147	173	167	8.2	46510	5	1654	21	1152
48057	50.00	51.00	1.00	-	-	161	-	-	1.8	19	142	70	2.4	35640	1	85	5	73
48058	51.00	52.00	1.00	-	-	21	-	-	.6	20	40	66	.1	23660	2	50	2	30
48059	52.00	53.00	1.00	-	-	15	-	-	.1	24	29	81	.1	22590	1	26	1	10
48060	53.00	54.00	1.00	-	-	134	-	-	3.2	171	128	76	7.0	25960	2	1185	13	1318
48061	54.00	55.00	1.00	-	-	207	-	-	3.2	94	153	86	4.6	29290	1	842	15	588
48062	55.00	56.00	1.00	-	-	273	-	-	3.1	75	341	108	7.1	33470	2	327	18	596
48063	56.00	57.00	1.00	-	-	296	-	-	4.9	201	162	81	9.4	38640	4	1089	20	1308
48064	57.00	58.00	1.00	-	-	205	-	-	1.4	22	124	64	1.3	29540	2	103	7	42
48065	58.00	59.00	1.00	-	-	157	-	-	1.8	28	116	59	.1	28430	2	118	9	43
48066	59.00	60.00	1.00	-	-	150	-	-	1.9	18	93	74	.5	31690	1	68	9	28
48067	60.00	61.00	1.00	-	-	78	-	-	1.0	20	50	96	.1	30130	1	49	4	37
48068	61.00	64.00	3.00	-	-	43	-	-	.3	9	71	76	2.4	29870	1	39	2	19
48069	64.00	67.00	3.00	-	-	136	-	-	1.0	10	99	67	1.0	23760	1	41	4	24
48070	67.00	70.00	3.00	-	-	92	-	-	1.1	5	1	49	.2	20220	1	33	1	29
48071	70.00	73.00	3.00	-	-	57	-	-	.7	4	33	52	.2	22930	2	35	1	34
48072	73.00	76.00	3.00	-	-	42	-	-	.8	5	23	50	.1	20160	4	64	1	47
48073	76.00	79.00	3.00	-	-	124	-	-	.9	3	54	59	2.1	13260	1	27	2	23
48074	79.00	82.00	3.00	-	-	23	-	-	.9	3	26	98	.2	9080	3	23	1	10
48075	82.00	85.00	3.00	-	-	196	-	-	1.4	9	1917	70	25.2	33780	8	43	4	31
48076	85.00	88.00	3.00	-	-	708	-	-	1.2	9	1039	63	13.3	27690	1	28	5	18
48077	88.00	91.00	3.00	-	-	705	-	-	1.2	11	1606	84	21.7	44780	2	36	7	29
48078	91.00	94.00	3.00	-	-	224	-	-	.9	7	495	132	8.3	32560	1	28	3	34
48079	94.00	97.00	3.00	-	-	108	-	-	.6	5	1038	89	12.9	37680	1	43	3	33
48080	97.00	98.00	1.00	-	-	405	-	-	.7	16	6226	109	85.9	72670	1	67	7	110
48081	98.00	99.00	1.00	-	-	515	-	-	1.6	25	4486	59	60.3	62280	2	99	12	136
48082	99.00	100.00	1.00	-	-	212	-	-	.9	7	788	66	10.4	29290	1	35	1	44
48083	100.00	103.00	3.00	-	-	92	-	-	.9	7	181	108	1.0	35600	1	46	2	77
48084	103.00	106.00	3.00	-	-	220	-	-	1.2	7	114	266	.1	29010	2	115	2	162
48085	106.00	109.00	3.00	-	-	267	-	-	1.0	6	54	81	1.5	25270	2	37	1	70
48086	109.00	112.00	3.00	-	-	175	-	-	1.2	9	144	94	.1	32120	4	42	2	30
48087	112.00	115.00	3.00	-	-	102	-	-	.9	5	100	97	.7	26530	1	30	2	18

Hole No.: 90-19

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
48088	115.00	118.00	3.00	-	-	96	-	-	.9	5	23	110	1.4	19370	1	20	1	16
48089	118.00	121.00	3.00	-	-	104	-	-	.6	7	173	80	2.7	27790	2	31	2	38
48090	121.00	124.00	3.00	-	-	119	-	-	.7	4	72	84	.2	24400	1	20	1	45
48091	124.00	127.00	3.00	-	-	100	-	-	.6	6	98	268	.9	25750	1	32	2	31
48092	127.00	128.92	1.92	-	-	46	-	-	.7	10	32	95	.9	26310	2	35	1	59
48093	128.92	131.00	2.08	-	-	84	-	-	1.4	9	194	82	2.7	26000	4	41	4	41
48096	131.00	132.00	1.00	-	-	148	-	-	1.7	21	374	307	5.3	32390	4	41	7	46
48097	132.00	133.00	1.00	-	-	56	-	-	1.3	12	187	97	3.3	35670	3	36	3	49
48098	133.00	136.00	3.00	-	-	32	-	-	.6	6	178	78	1.0	31140	1	26	1	43
48099	136.00	139.00	3.00	-	-	1	-	-	.8	4	34	326	.1	28560	1	34	1	52
48100	139.00	142.00	3.00	-	-	96	-	-	.9	7	51	81	.1	42140	1	54	2	100
48101	142.00	145.00	3.00	-	-	67	-	-	.9	5	19	67	.1	41480	1	110	2	129
48102	145.00	148.00	3.00	-	-	30	-	-	.4	4	20	66	.1	36060	1	26	1	45
48103	148.00	151.00	3.00	-	-	83	-	-	.6	8	19	116	.1	35580	1	84	1	94
48104	151.00	154.00	3.00	-	-	167	-	-	.9	3	131	193	1.6	30120	1	37	4	28
48105	154.00	157.00	3.00	-	-	250	-	-	.5	5	138	77	.1	36400	1	26	3	37
48106	157.00	160.00	3.00	-	-	181	-	-	.5	3	102	83	.1	28900	1	28	3	24
48107	160.00	163.00	3.00	-	-	60	-	-	.4	3	65	212	.1	32920	1	52	2	47
48108	163.00	165.00	2.00	-	-	23	-	-	.4	2	4	101	.1	24810	1	39	1	56
48109	165.00	168.19	3.19	-	-	51	-	-	.6	6	9	88	.1	30560	1	61	1	93
48110	168.19	170.00	1.81	-	-	3	-	-	.4	3	1	107	.1	28590	1	25	1	33
48111	170.00	172.00	2.00	-	-	83	-	-	.1	6	33	94	.1	53480	1	24	1	51
48112	172.00	174.00	2.00	-	-	60	-	-	.5	5	1	138	.1	25140	1	26	1	42
48113	174.00	176.00	2.00	-	-	81	-	-	.4	14	1	142	.1	36730	1	27	1	50
48114	176.00	178.00	2.00	-	-	27	-	-	.4	6	1	116	.1	40930	1	38	1	79
48115	178.00	180.00	2.00	-	-	120	-	-	.8	8	85	113	1.4	39310	1	209	4	372
48116	180.00	182.05	2.05	-	-	61	-	-	.4	4	3	380	.1	28630	1	36	1	42
48117	182.05	183.00	.95	-	-	120	-	-	.5	8	132	157	.3	46670	1	33	1	100
48118	183.00	184.00	1.00	-	-	152	-	-	1.0	7	150	139	2.1	38380	1	38	4	20
48119	184.00	185.00	1.00	-	-	498	-	-	1.3	12	394	167	4.7	58030	1	49	9	66
48120	185.00	186.00	1.00	-	-	715	-	-	1.2	26	226	132	3.0	48830	1	35	2	354
48121	186.00	187.00	1.00	-	-	80	-	-	.6	4	50	142	.4	23130	1	16	1	18
48122	187.00	188.00	1.00	-	-	79	-	-	.8	6	51	93	.1	27100	1	36	3	72
48123	188.00	189.00	1.00	-	-	103	-	-	.9	12	104	117	2.9	28280	1	103	2	805
48124	189.00	190.00	1.00	-	-	218	-	-	1.2	11	147	133	1.9	44140	1	38	7	486
48125	190.00	191.00	1.00	-	-	162	-	-	.4	9	38	93	.1	45990	1	28	1	50
48126	191.00	192.00	1.00	-	-	47	-	-	.6	4	39	120	.1	16050	2	22	1	15
48127	192.00	193.00	1.00	-	-	175	-	-	1.8	7	164	316	.1	23210	3	33	17	14
48128	193.00	193.76	.76	-	-	41	-	-	.7	3	52	151	.1	17080	1	22	2	14
48129	193.76	195.25	1.49	-	-	61	-	-	1.5	7	60	267	7.9	38910	1	701	3	2100
48130	195.25	196.27	1.02	-	-	32	-	-	.8	10	13	170	.1	54570	1	239	1	323
48131	196.27	197.00	.73	-	-	7	-	-	1.5	11	6	117	2.3	55320	1	720	1	1285
48132	197.00	200.00	3.00	-	-	2	-	-	.9	5	21	188	.1	34400	1	64	1	93
48133	200.00	203.00	3.00	-	-	1	-	-	1.0	9	1	192	.1	46560	1	83	1	150
48134	203.00	206.00	3.00	-	-	1	-	-	.5	40	1	101	.1	69100	1	102	1	223
48135	206.00	209.00	3.00	-	-	1	-	-	.5	3	1	125	.1	43390	1	26	1	75
48136	209.00	212.00	3.00	-	-	3	-	-	.7	3	1	149	.1	36510	1	29	1	67
48137	212.00	215.00	3.00	-	-	1	-	-	.9	5	1	107	.1	36460	1	13	1	84
48138	215.00	218.00	3.00	-	-	2	-	-	1.1	4	1	147	.1	38640	1	82	1	103
48139	218.00	221.00	3.00	-	-	1	-	-	1.0	7	1	117	.1	30750	1	17	1	60

Hole No.: 90-19

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
48140	221.00	223.00	2.00	-	-	2	-	-	1.2	2	1	146	.1	34130	1	26	1	66
48141	223.00	224.96	1.96	-	-	1	-	-	1.4	2	1	212	.1	31000	1	16	1	58

COMP: COASTAL MTN.ENGRG.
PROJ: SIB
ATTN: D.COPELAND/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-19

FILE NO: OS-0552-RJ1+2
DATE: 90/10/01
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48039 B	7.7	19250	71	3	101	1.6	1	17410	2.3	13	77	37430	2500	23	12540	830	2	390	33	810	1644	10	56	1	1	36.7	202	1	1	1	65	58
48040 B	2.0	18480	47	2	87	2.0	1	11420	.1	13	48	42150	2460	17	11100	741	1	440	7	750	192	6	10	1	1	31.6	96	1	1	1	15	142
48041 B	2.3	18810	64	3	111	1.8	1	7570	1.2	14	71	44310	3880	13	11320	844	1	90	10	820	149	7	8	1	1	29.9	95	1	1	1	16	94
48042 B	2.5	19100	65	3	118	1.9	1	14120	.8	14	63	43480	4080	14	10460	1005	1	530	12	880	99	6	22	1	1	34.2	77	1	1	1	8	86
48043 B	2.6	16110	32	2	92	1.9	1	19050	.1	12	41	41500	3050	12	9050	938	1	110	8	980	86	10	25	1	1	29.5	88	1	1	1	11	57
48044 B	1.7	18130	40	2	122	1.8	2	14780	.1	14	49	43960	3970	12	8850	820	1	130	12	920	51	9	24	1	1	32.4	85	1	1	1	9	43
48045 B	2.1	15330	43	2	115	2.1	2	22090	.1	12	34	37260	3240	10	7860	842	1	120	8	870	63	9	28	1	1	27.9	70	1	1	1	11	55
48046 B	1.8	16160	36	2	125	1.7	2	16720	.1	12	38	36450	3400	11	9190	839	1	540	8	780	50	7	34	1	1	28.1	78	1	1	1	23	58
48047 B	2.0	15950	40	2	101	1.9	2	21950	.1	12	42	38850	3050	12	9750	1097	1	500	8	840	61	7	55	1	1	27.8	86	1	1	1	21	56
48048 B	1.4	14900	66	2	102	1.9	2	8660	.3	13	59	38410	3390	11	8450	729	1	540	9	850	54	7	13	1	1	24.4	96	1	1	1	11	39
48049 B	1.0	16120	18	2	93	2.0	2	11150	.1	13	42	38370	3040	12	10120	955	1	720	9	770	60	5	11	1	1	27.8	86	1	1	1	10	26
48050 B	1.6	15220	37	4	111	1.9	2	21610	.1	11	33	37180	3320	11	9420	1232	1	600	4	840	57	9	60	1	1	25.7	89	1	1	1	21	42
48051 B	.7	16450	1	2	102	1.0	2	16720	.1	12	14	36240	3000	13	12660	1871	2	220	2	1130	50	2	30	1	1	24.9	69	1	1	1	22	18
48052 B	2.0	14090	78	3	102	1.7	1	12260	.5	11	41	41220	3200	11	10720	1381	1	90	5	790	148	14	23	1	1	24.7	124	1	1	1	20	124
48053 B	2.6	11230	97	2	110	1.6	2	6090	.3	13	28	39100	3400	6	7710	905	3	130	9	940	92	13	13	1	1	19.9	72	1	1	1	25	100
48054 B	6.7	6040	173	2	99	1.3	2	5250	17.2	12	123	39140	3230	1	3010	613	2	100	6	750	2878	25	14	1	1	11.6	3032	1	1	1	30	322
48055 B	8.6	8240	460	4	96	2.1	2	5310	51.2	14	417	51120	4360	2	3850	539	3	100	3	750	5238	35	16	1	1	16.2	7740	1	2	1	52	472
48056 B	4.7	11120	173	3	167	1.5	2	9040	8.2	12	147	46510	3770	6	9630	1223	5	100	4	750	1654	21	18	1	1	22.7	1152	2	2	1	27	254
48057 B	1.8	12670	142	2	70	1.7	1	8640	2.4	11	19	35640	3500	9	12140	1063	1	110	5	770	85	5	26	1	1	22.5	73	1	2	1	41	161
48058 B	.6	6920	40	1	66	1.4	2	12930	.1	6	20	23660	3920	2	6390	1202	2	120	1	1050	50	2	27	1	1	9.3	30	1	1	1	68	21
48059 B	.1	7460	29	1	81	1.6	1	6110	.1	5	24	22590	5060	1	2370	394	1	80	1	1040	26	1	16	1	1	6.9	10	1	1	1	27	15
48060 B	3.2	8230	128	2	76	1.8	2	7970	7.0	8	171	25960	3770	5	3430	556	2	90	7	650	1185	13	24	1	1	13.0	1318	1	1	2	103	134
48061 B	3.2	7020	153	2	86	1.7	1	8400	4.6	9	94	29290	3850	2	3960	662	1	90	7	790	842	15	26	1	1	12.5	588	1	1	2	80	207
48062 B	3.1	7250	341	2	108	1.3	2	5390	7.1	11	75	33470	4210	1	2430	445	2	90	10	850	327	18	20	1	1	12.9	596	1	1	1	59	273
48063 B	4.9	7470	162	3	81	1.7	1	10890	9.4	11	201	38640	3740	2	5980	1126	4	100	4	790	1089	20	29	1	1	15.8	1308	1	1	1	73	296
48064 B	1.4	6430	124	1	64	1.3	1	10460	1.3	8	22	29540	3260	2	5870	926	2	110	3	640	103	7	28	1	1	12.6	42	1	1	1	66	205
48065 B	1.8	6740	116	1	59	1.6	1	11900	.1	8	28	28430	2710	3	7500	1284	2	90	3	570	118	9	33	1	1	11.7	43	1	1	2	98	157
48066 B	1.9	8600	93	2	74	1.4	2	10510	.5	11	18	31690	3840	4	7460	1091	1	100	8	770	68	9	22	1	1	14.1	28	1	1	1	41	150
48067 B	1.0	8020	50	2	96	1.6	1	10660	.1	8	20	30130	4860	1	4860	745	1	90	1	930	49	4	41	1	1	10.0	37	1	2	1	24	78
48068 B	.3	5910	71	1	76	1.4	2	6490	2.4	7	9	29870	3930	1	2800	585	1	170	1	710	39	2	12	1	1	8.0	19	1	1	1	51	43
48069 B	1.0	4620	99	1	67	.7	1	3370	1.0	8	10	23760	3070	1	1520	264	1	90	1	830	41	4	10	1	1	5.5	24	1	1	1	37	136
48070 B	1.1	8570	1	1	49	.9	1	8870	.2	7	5	20220	2270	5	8600	1020	1	490	1	990	33	1	13	1	1	24.8	29	1	1	1	28	92
48071 B	.7	10780	33	1	52	.8	1	4920	.2	9	4	22930	2800	6	7770	569	2	150	1	1130	35	1	8	1	1	29.9	34	1	1	1	20	57
48072 B	.8	8460	23	1	50	1.0	1	6470	.1	9	5	20160	2900	4	6510	535	4	650	4	1570	64	1	18	1	1	23.7	47	1	1	1	23	42
48073 B	.9	5500	54	1	59	.2	1	10050	2.1	2	3	13260	2320	2	6100	884	1	30	5	50	27	2	21	1	1	4.1	23	1	1	1	90	124
48074 B	.9	3490	26	1	98	.3	1	8770	.2	2	3	9080	2380	1	4250	728	3	40	1	20	23	1	23	1	1	3.1	10	1	1	2	119	23
48075 B	1.4	8890	1917	1	70	1.2	1	7150	25.2	14	9	33780	3230	4	7230	1060	8	160	3	1030	43	4	19	1	1	25.6	31	1	1	1	40	196
48076 B	1.2	5120	1039	1	63	.9	1	6360	13.3	9	9	27690	2220	1	2950	706	1	360	1	1510	28	5	14	1	1	22.6	18	1	1	1	46	708
48077 B	1.2	4540	1606	2	84	1.3	1	10810	21.7	14	11	44780	2530	1	5010	1305	2	310	1	1760	36	7	23	1	1	28.0	29	1	1	1	37	705
48078 B	.9	5780	495	1	132	.9	1	13120	8.3	10	7	32560	2290	2	6490	1548	1	290	1	1620	28	3	28	1	1	30.8	34	1	1	1	41	224
48079 B	.6	7200	1038	2	89	.9	2	16210	12.9	11	5	37680	2480	3	7260	2745	1	310	1	1870	43	3	41	1	1	35.6	33	1	1	1	38	108
48080 B	.7	5780	6226	9	109	1.4	3	20650	85.9	22	16	72670	3780	1	11720	3991	1	100	1	2320	67	7	63	1	1	44.7	110	1	4	1	1	405
48081 B	1.6	4090	4486	3	59	1.5	1	7290	60.3	21	25	62280	2680	1	3730	1058	2	270	1	1650	99	12	15	1	1	20.1	136	1	1	1	1	515
48082 B	.9	8450	788	1	66	1.1	1	6140	10.4	8	7	29290	3080	3	4600	736	1	310	1	2200	35	1	13	1	1	27.7	44	1	1	1	28	212
48083 B	.9	9150	181	2	108	1.1	2	8840	1.0	14	7	35600	3140	4	6260	1338	1	230	1	1960	46	2	18	1	1	38.9	77	1	1	1	23	92
48084 B	1.2	7110	114	1	266	.9	1	9060	.1	13	7	29010	3190	3	4600	1275	2	170	1	1760	115	2	14	1	1	34.4	162	1	1	1	51	220
48085 B	1.0	6260	54	2	81	.6	1	15690	1.5	9	6	25270	3480	1	7550	2438	2	210	2	1750	37	1	23	1	1	41.2	70	1	1	1	46	267
48086 B	1.2	6370	144	1	94	.9	2	4840	.1	15	9	32120	3540	2	1920	731	4	230	1	1970	42	2	10	1	1	24.3	30	1	1	1	15	175
48087 B	.9	4700	100	1	97	.5	1	4490	.7	11	5	26530	3650	1	950	392	1	330	1	1840	30	2	12	1	1	13.1	18	1	1	1	19	102
48088 B	.9	3290	23	1	110	.6	1	8610	1.4	7	5	19370	2640	1	2970	972	1	250	1	1380	20	1	16	1	1	12.6	16	1	1	1	43	96
48089 B	.6	4450	173	1	80	.4	1	4070	2.7	11	7	27790	2770	1	1710	395	2	290	1	1410	31	2	10	1	1	15.5	38	1	1	1	18	104
48090 B	.7	4480	72	1	84	.7	1	3820	.2	7	4	24400	3160	1	2280	586	1	260	1	1120	20	1	10	1	1	15.8	45	1	1	1	51	119
48091 B	.6	4560	98	1	268	.6	1	4070	.9	9	6	25750	3470	1	1030	226	1	240	1	1530	32	2	11	1	1	11.7	31	1	1	1	30	100
48092 B	.7	8890	32	1	95	.5	1	8580	.9	8	10	26310	3810	1	3680	1042	2	270	4	1700	35	1	13	1	1	18.8	59	1	1	1	20	46
48093 B	1.4	4290	194	1	82	.5	1	9380	2.7	9	9	26000	2530	1	2950	887	4	420	1	1610	41	4	19	1	1	13.8	41	1	1	1	24	84
48096 B	1.7	4500	374	1	307	1.2	1	9020	5.3	10	21	32390	2660	1	2850	956	4	620	1	1750	41	7	19	1	1	16.7	46	1	1	2	37	148
48097 B	1.3	6340	187	1	97	.9	1	9600	3.3	10	12	35670	1990	3	4030	1567	3	500	1	1730	36	3	17	1	1	41.9	49	1	1	1	21	56
48098 B	.6	7950	178	1	78	1.2	2	7270	1.0	9	6	31140	2600	4	4230	1532	1	390	1	1760	26	1	14	1	1	39.8	43	1	1	1	25	32
48099 B	.8	7440	34	1	326	.3	1	8180	.1	10	4	28560	3160	2	4500	1568	1	330	1	1640	34	1	15	1	1	32.8	52	1	1	1	19	1
48100 B	.9	10880	51	1	81	1.2	1	10620	.1	11	7	42140	2470	6	8340	1289	1	350	1	1660	54	2	17	1	1	43.9	100	1	1	1	15	96

COMP: COASTAL MTN.ENGRG.
PROJ: S1B
ATTN: D.COPELAND/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-19

FILE NO: OS-0552-RJ3+4
DATE: 90/10/01
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48101 B	.9	15530	19	2	67	1.4	2	16940	.1	10	5	41480	2660	10	17690	2131	1	360	1	1540	110	2	28	1	1	54.8	129	1	2	1	11	67
48102 B	.4	12910	20	1	66	1.0	2	8830	.1	9	4	36060	2840	8	9890	1250	1	310	1	1460	26	1	15	1	1	42.8	45	1	1	1	1	30
48103 B	.6	11340	19	1	116	1.0	2	9480	.1	11	8	35580	3120	5	8580	974	1	280	1	1410	84	1	24	1	1	53.7	94	1	1	1	11	83
48104 B	.9	9120	131	1	193	1.0	1	13420	1.6	9	3	30120	3710	3	7900	1357	1	390	1	1830	37	4	36	1	1	39.3	28	1	1	1	10	167
48105 B	.5	9330	138	1	77	1.0	2	10850	.1	9	5	36400	2860	4	9210	1022	1	220	1	1400	26	3	23	1	1	35.6	37	1	3	1	1	250
48106 B	.5	8110	102	1	83	1.2	1	6280	.1	7	3	28900	2970	3	5400	556	1	250	1	1430	28	3	16	1	1	32.8	24	1	1	1	5	181
48107 B	.4	9400	65	1	212	.9	1	8860	.1	9	3	32920	3080	4	7160	764	1	270	1	1470	52	2	16	1	1	32.4	47	1	1	1	1	60
48108 B	.4	10160	4	1	101	.6	1	12380	.1	7	2	24810	3070	4	9480	1336	1	410	1	1650	39	1	22	1	1	42.3	56	1	2	1	7	23
48109 B	.6	11960	9	1	88	1.0	2	8960	.1	9	6	30560	2950	6	9200	1112	1	260	1	1490	61	1	17	1	1	43.9	93	1	1	1	1	51
48110 B	.4	14650	1	1	107	1.1	2	5130	.1	8	3	28590	3790	6	9350	913	1	320	1	1070	25	1	11	1	1	36.6	33	2	1	1	1	3
48111 B	.1	18770	33	1	94	1.6	2	8840	.1	10	6	53480	3080	8	13720	1928	1	310	1	1340	24	1	17	1	1	55.5	51	1	3	1	1	83
48112 B	.5	12770	1	1	138	1.4	2	10250	.1	11	5	25140	4110	5	9260	1248	1	280	1	1530	26	1	14	1	1	34.8	42	1	1	1	2	60
48113 B	.4	17340	1	2	142	1.0	1	11490	.1	11	14	36730	3870	6	13460	2063	1	250	1	1770	27	1	17	1	1	50.6	50	1	1	1	1	81
48114 B	.4	17320	1	2	116	1.2	2	11350	.1	11	6	40930	3650	7	15890	2239	1	170	1	1960	38	1	18	1	1	51.6	79	1	1	1	1	27
48115 B	.8	12870	85	1	113	.7	1	10430	1.4	15	8	39310	3580	5	11180	1571	1	180	1	1840	209	4	18	1	1	35.9	372	1	1	1	1	120
48116 B	.4	9540	3	2	380	1.0	1	10500	.1	15	4	28630	4630	1	9620	1286	1	180	1	1920	36	1	23	1	1	29.2	42	1	2	1	1	61
48117 B	.5	18670	132	2	157	1.5	2	6290	.3	17	8	46670	4230	8	12650	1126	1	250	1	1690	33	1	14	1	1	48.4	100	1	1	1	1	120
48118 B	1.0	8980	150	1	139	.8	1	7900	2.1	11	7	38380	3970	2	5740	909	1	310	1	1400	38	4	15	1	1	23.8	20	1	1	1	1	152
48119 B	1.3	14280	394	3	167	1.9	2	7390	4.7	22	12	58030	5290	5	8970	992	1	330	1	1680	49	9	13	1	1	37.1	66	1	2	1	1	498
48120 B	1.2	13370	226	2	132	1.3	1	6380	3.0	15	26	48830	4410	5	7860	744	1	300	1	1970	35	2	15	1	1	31.2	354	1	3	1	1	715
48121 B	.6	10660	50	1	142	.8	1	9990	.4	10	4	23130	4860	3	6420	1150	1	390	1	1720	16	1	21	1	1	27.2	18	1	1	1	13	80
48122 B	.8	6700	51	1	93	.4	2	17850	.1	8	6	27100	3090	2	10100	3063	1	310	2	1150	36	3	46	1	1	21.0	72	1	1	1	27	79
48123 B	.9	9340	104	1	117	.9	2	11540	2.9	9	12	28280	3770	3	8820	1410	1	260	2	1570	103	2	21	1	1	25.6	805	1	1	1	4	103
48124 B	1.2	13690	147	3	133	1.2	2	8380	1.9	19	11	44140	4450	4	9500	1215	1	230	1	1530	38	7	13	1	1	38.3	486	1	1	1	1	218
48125 B	.4	14620	38	1	93	1.3	2	6910	.1	16	9	45990	3100	6	10550	1319	1	240	1	1280	28	1	12	1	1	44.7	50	1	1	1	7	162
48126 B	.6	8760	39	1	120	.7	1	5500	.1	11	4	16050	4080	2	4050	415	2	350	1	1460	22	1	12	1	1	16.0	15	1	1	1	22	47
48127 B	1.8	6360	164	1	316	.8	1	11750	.1	13	7	23210	3510	1	6180	1158	3	330	1	1110	33	17	17	1	1	16.0	14	1	1	1	23	175
48128 B	.7	9490	52	1	151	1.0	1	6620	.1	8	3	17080	5110	2	4170	499	1	140	1	1530	22	2	12	1	1	16.2	14	2	1	1	13	41
48129 B	1.5	16600	60	3	267	1.9	2	15300	7.9	14	7	38910	5110	9	15150	1588	1	130	1	1850	701	3	57	1	1	35.3	2100	1	1	1	4	61
48130 B	.8	23130	13	4	170	1.9	2	13830	.1	17	10	54570	4710	12	19130	2143	1	220	1	2130	239	1	15	1	1	65.4	323	1	2	1	3	32
48131 B	1.5	20480	6	5	117	1.8	2	11280	2.3	18	11	55320	3510	11	17340	2246	1	330	1	1650	720	1	15	1	1	54.9	1285	1	3	1	1	7
48132 B	.9	10700	21	4	188	1.2	2	9880	.1	13	5	34400	5290	2	12650	1659	1	320	1	1760	64	1	20	1	1	32.7	93	1	4	1	1	2
48133 B	1.0	13610	1	6	192	1.5	2	18320	.1	16	9	46560	3600	5	18290	3022	1	260	1	1220	83	1	47	1	1	42.9	150	1	6	1	1	1
48134 B	.5	27020	1	4	101	2.0	2	14820	.1	19	40	69100	2150	12	25700	3317	1	430	1	1130	102	1	12	1	1	72.9	223	1	8	1	1	1
48135 B	.5	21570	1	2	125	1.5	2	10450	.1	13	3	43390	2860	9	20710	2072	1	390	1	1320	26	1	12	1	1	54.6	75	1	5	1	1	1
48136 B	.7	18950	1	2	149	1.0	1	12920	.1	11	3	36510	3120	8	21630	2056	1	380	1	1220	29	1	13	1	1	47.9	67	1	5	1	1	3
48137 B	.9	21450	1	2	107	1.6	2	14570	.1	12	5	36460	2900	12	28520	2166	1	300	1	1290	13	1	15	1	1	46.6	84	1	2	1	1	1
48138 B	1.1	17550	1	2	147	.8	2	18510	.1	11	4	38640	3320	9	25030	2519	1	270	1	1220	82	1	18	1	1	43.0	103	1	7	1	1	2
48139 B	1.0	18180	1	1	117	1.5	2	14090	.1	10	7	30750	3540	7	17870	1329	1	400	1	1300	17	1	7	1	1	42.8	60	1	3	1	1	1
48140 B	1.2	20280	1	1	146	1.2	1	18750	.1	11	2	34130	3660	7	15810	1120	1	430	1	1340	26	1	12	1	1	46.8	66	2	1	1	1	2
48141 B	1.4	18530	1	1	212	1.3	2	22000	.1	10	2	31000	3600	6	12340	1024	1	390	1	1240	16	1	22	1	1	41.6	58	2	2	1	1	1

CEC ENGINEERING LIMITED — REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-20

SIB PROPERTY — DIAMOND DRILL LOG

NTS MAP #	: 104B/9	CLAIM #	: SIB 1,2		
LOCAL GRID	: 11783.26 N / 10143.49 E	GLOBAL GRID	: 15661.88 N / 19455.87 E	ELEVATION	: 1187.92 metres
LENGTH	: 237.10 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 297.0 degrees
OVERBURDEN	: 1.35 m	CASING	: 1.35 metres	ASSAYING BY	: Min-En Labs
LOGGED BY	: Perry Beck	DRILLED BY	: J.T. Thomas	CORE LOCATION	: 101+00 N, 98+00 E
DATE LOGGED	: 1990/09/17 Y/M/D	DATE DRILLED	: 1990/09/11 Y/M/D	SAMPLE NO. SERIES	: 47001-47127

SUMMARY LOG 90-20

From(m)	To(m)	Field Name (Legend)
0.00	1.35	OVERBURDEN
1.35	87.47	LAPILLI FRAGMENTAL TUFF (FELSIC FRAGMENTAL) (UNIT 11)
87.47	108.50	ARGILLACEOUS SILSTONE/MUDSTONE (UNIT 12)
108.50	110.40	HETEROLITHIC FRAGMENTAL GREYWACKE / TUFF (UNIT 15)
110.40	113.00	ARGILLACEOUS SILTSTONE/MUDSTONE (UNIT 12)
113.00	113.90	HETEROLITHIC FRAGMENTAL GREYWACKE (siltstone) (UNIT 15)
113.90	132.40	ARGILLACEOUS SILTSTONE/MUDSTONE (UNIT 12)
132.40	217.10	LAPILLI FRAGMENTAL (UNIT 11)
217.10	230.86	ARGILLACEOUS SILSTONE/MUDSTONE (UNIT 12)
230.86	237.13	LAPILLI FRAGMENTAL TUFF (UNIT 21)
237.13		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-20

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
1.35	2.25	0.90	0.034		0.39	0.20
19.82	20.39	0.57	0.014			0.18
26.10	27.94	1.84	0.015			
117.21	122.11	4.90	0.010	0.19	0.39	0.45
163.32	163.98	0.66	0.011			
178.70	181.63	2.93	0.015			
184.67	185.67	1.00	0.012			
193.74	194.84	1.10	0.012			
202.95	211.00	8.05	0.011			

From(m)	To(m)	Description
0.00	1.35	OVERBURDEN
1.35	87.47	LAPILLI FRAGMENTAL TUFF (FELSIC FRAGMENTAL) (UNIT 11) Primary Texture: partly obliterated. Composition Groundmass: Light grey green to off white, felsic. Fragments: 1 to 5 cm, subangular to rounded, grey, contain hypidiomorphic plagioclase phenocrysts 1 to 3 mm long that have been sericitized. Alteration K-feldspar: Moderate to Strong. Upper section has preferential alteration to clasts (20 to 25%), increases down hole. Interstial material does not stain. Sericite: Plagioclase laths have pale green color. Mineralization Pyrite: 1 to 2%. Disseminated throughout with a slight increase within clasts (2 to 2.5%). Euhedral to subhedral crystals or aggregates of fine crystals. Occasionaly veinlets < 1 cm. Some halos along clasts edges(1 to 2 mm). Veins and Sub-Intervals Quartz-carbonate Veining. +- calcite+- iron carbonate, < 1 cm. <1.35>-<2.15>: Small quartz pyrite galena sphalerite chalcopyrite veins. 1 large(4 to 5 cm) and 6 to 7 small(<1 cm) at 70 degrees to core axis. <2.15>-<16.00>: Slight pervasive k-feldspar stain(5 to 8%) throughout. 1% disseminated pyrite crystals. <16.00>-<19.27>: Clasts average 2 to 8 cm wide and are isolated within quartz/plagioclase laths. Groundmass preferential k-feldspar alteration of clasts. quartz-iron-carbonate veinlets(<1 cm) approx 6 to 12 per metre. Occasional pyrite veinlets(< 1 cm). <19.27>-<20.37>: Clasts and plagioclase laths(sericitized) within pink k-feldspar groundmass. Heavy staining(30%) appears to have chill zones(possible dyke). 20.07 to 20.37 Quartz+galena+sphalerite+chalcopyrite+pyrite veinlet(2 to 3 cm) at 70 degrees to core axis. <20.37>-<27.82>: Clasts to 10 cm, disseminated subhedral to euhedral pyrite to 1 cm. Iron carbonate+- quartz fracture fillings and

From(m) To(m) ----------Description----------

interstitial veining at 70 to 85 degrees to core axis. 24.5 to 27.82m has galena (<1%) blebs and pyrite-galena veinlets with lead grey film on surface at 30 degrees to core axis. Chalcopyrite galena pyrite sphalerite carbonate veinlets at 70 to 85 degrees to core axis.

<34.60>-<35.80>: Chalcopyrite+galena+sphalerite+pyrite+carbonate veins at 40 and 80 degrees to core axis (10 per metre). Quartz-pyrite stockwork (2 to 3%) throughout core. Fine grained pyrite as aggregates of annealing around plagioclase phenocrysts to form blebs. Trace galena.

<45.25>-<47.78>: Minor quartz chloritic veinlets at 20 degrees to core axis. Trace galena. Shear from 47.20 to 47.78 metres with iron carbonate sericite chlorite pyrite quartz and some gouge at 70 degrees to core axis.

<47.78>-<53.20>: Pyrite stockwork. Strong k-feldspar alteration volcaniclastic texture with quartz-carbonate veinlets at 60 to 90 degrees to core axis. Fine grained disseminated pyrite as interstitial infillings. Fine lead gray mineral from 52.20 to 52.90 metres.

<53.20>-<78.21>: Strong pervasive k-feldspar alteration. iron carbonate veinlets (6 to 12 /m) at 70 to 85 degrees to core axis. Some pyrite microveinlets +- sphalerite. Disseminated pyrite. Dull lead grey mineral in blebs in pervasive altered rock. Sericite and chloritic alteration in absence of strong k-feldspar alteration. 67.44 to 67.75 m shearing / brecciated zone.

<78.21>-<81.80>: Lapilli fragmental with grey green clasts in a dark green black chloritic aphanitic groundmass. Fine grained disseminated pyrite throughout(2%). Some clasts preferentially pyritized(5-10%). Sericite chlorite prevalent. Quartz veinlets at 70 degrees to core axis to 1 cm wide(6 to 10 per metre).

<81.80>-<87.47>: Pervasive potassic altered volcaniclastic with sericite chlorite epidote alteration. Fragments are subangular to subrounded. Disseminated pyrite throughout(1 to 3%) with pyrite veinlets to 1 cm wide. Galena and sphalerite veinlets at 82.94 m. Chalcedonic quartz vein 2 to 3 cm wide at 84.85 m.

From(m) To(m) ----------Description----------

87.47 108.50 ARGILLACEOUS SILSTONE/MUDSTONE (UNIT 12)

Composition

8 Matrix: Black, fine grained aphanitic, carbonaceous, layered. White particles within matrix are usually sand size and appear to be quartz and plagioclase crystals. Make up 30 to 50% of the matrix.

Clasts: Light colored, round to subround, 2 to 3 cm wide, elongate and rounded(tectonically sheared?).

Structure

Upper contact: Slightly gradational

Alteration

Carbonitized: Weak. Veinlets of calcite with halos.

Mineralization

Pyrite: to 10%. Very fine grained disseminated throughout, micro stringers blebs and aggregates between laminae and clasts.

Veins and Sub-Intervals

Quartz Veining. veinlets crosscut iron carbonate vls and are fairly barren.

Quartz-carbonate Veining. Also iron carbonate and calcite veinlets oriented parallel to lineations. Frequency 6 to 15 per metre. Some sphalerite, galena, pyrite and tetrahedrite.

<97.82>-<97.83>: Black mineral(pyrobitumen) with black, no-fizz, submetallic luster. Also found at 99.34 metres and 120.80 metres.

<100.43>-<101.00>: Iron carbonate veinlets with galena sphalerite and pyrite.

<104.00>-<108.50>: Increase in disseminated, wispy laminae and bleb pyrite (10%).

<106.37>-<107.07>: Microveinlets of sphalerite with some pyrite and galena.

<107.42>-<107.48>: FAULT/GOUGE/SHEAR

108.50 110.40 HETEROLITHIC FRAGMENTAL GREYWACKE / TUFF (UNIT 15)

Plagioclase Phenocrysts: Laths have a translucent to glassy texture.

Composition

Matrix: Fine grained, contains quartz eyes, chloritic or sericitic lenses and grains. Chloritic sericitic laminae occur between particles and clasts sometimes wrapping around clasts to a small degree.

Clasts: Up to 4 cm wide. Zoned with a lighter outer ring. Rounded and elongate. Contain plagioclase phenocrysts (2 to 3 mm) and quartz eyes (1 to 2 mm)

.

Fragments: Mudstone. Dark grey to light black. Contain brachiopod sections, ooids and crinoid stems.

From(m)	To(m)	Description
		Origin: Possible a tectonically stressed greywacke or turbidite slump feature.Slight coarsening upward sequence. Alteration K-feldspar: Weak. Preferential but not pervasive. Some clasts altered, matrix possibly altered. Total k-feldspar 5 to 10 %. Mineralization Pyrite: 1 to 4%. Laminae and wispy aggregates between clasts. Crystals 1 to 2 mm. Some clasts preferentially pyritized. Mudstones not pyritized.
110.40	113.00	ARGILLACEOUS SILTSTONE/MUDSTONE (UNIT 12) Composition Siltsone: Same as above siltstone. Black, carbonaceous, aphanitic with some quartz/plagioclase laths. Mineralization Pyrite: 10 to 15%. Laminae, wispy, disseminated, blebs. Veins Iron carbonate Veining. May contain pyrite galena sphalerite tetrahedrite at 115.30, 118.00, 119.10 and 121.30 m. Veins to 1 cm wide.
113.00	113.90	HETEROLITHIC FRAGMENTAL GREYWACKE (siltstone) (UNIT 15) Colour: mottled . Composition Greywacke: Same as above greywacke-mudstone. Clasts: Contain crinoids and brachiopods. Iron carbonate and calcite blebs. Felsic with plagioclase laths. Matrix: Sericitic chloritic laminae. Mineralization Pyrite: Laminae and wisps, disseminated crystals within fragments and between fragments. Rings around clasts.
113.90	132.40	ARGILLACEOUS SILTSTONE/MUDSTONE (UNIT 12) Composition Siltstone:same as above crinoidal silstone with a slight increase in quartz-carbonate veinlets (6 to 15 per metre) up to 1 cm wide. Mineralization Pyrite: 2 to 3%. Disseminated, veinlets, blebs, halos around clasts and wispy aggregates. Sphalerite: Trace. Fine grained in pyritic veins(up to 2 cm wide).

From(m) To(m) ----------Description----------

Veins and Sub-Intervals
<113.90>-<115.00>: Slight increase in amount of quartz pebbles and felsic particles(up to 3 to 4 mm) giving a mottled texture.
<115.35>-<115.80>: Quartz-sulphide Veining. Avg. width 3.00cm. Chalcopyrite, pyrite, galena, sphalerite, pyrobitumen.
<116.50>-<116.55>: SHEAR/GOUGE ZONE. Disseminated pyrite.
<117.00>-<121.40>: Slight increase in pyrite to 5%.
<118.00>-<118.16>: Quartz-sulphide Veining. Quartz calcite pyrite galena sphalerite +-chalcopyrite stockwork microveining. Increased shearing pyrite slightly fissile.
<119.66>-<119.76>: Quartz-sulphide Veining. Quartz pyrite galena sphalerite +-sphalerite +- chalcopyrite veinlets to 1 cm wide.
<121.20>-<121.40>: Quartz-sulphide Veining. Quartz pyrite galena sphalerite +-calcite +- chalcopyrite veinlets to 1 cm wide.
<121.40>-<129.30>: Argillaceous Siltstone. Disseminated, wispy and laminae pyrite oriented parallel to lineations (5 to 10%). Iron carbonate veinlets to 1 cm(2 to 4 per metre). Trace sphalerite. Gouge/Fault from 121.90 to 121.95 m.
<129.30>-<132.40>: Increase in heterolithic clasts, quartz pebbles and felsic clasts. Increased iron carbonate veinlets and pyrite laminae and wisps. Slighly more fissil. Fault(gouge and clasts) from 131.90 to 132.40 m. Sharp lower contact.

132.40 217.10 LAPILLI FRAGMENTAL (UNIT 11)
Colour: mottled light-grey to mottled light-green.
Composition
Clasts: Elongate to rounded(2 to 5 cm long, 1 to 3 cm wide), make up to 60% of rock by volume.
Groundmass: Aphanitic.
Alteration
K-feldspar: Variable. Intense alteration is coincident with lighter color. Milky white sections stain 60 to 70%. Quartz-carbonate pyrite arsenopyrite and chalcedonic veinlets do not stain.
Sericite: Variable. Some greenish hue.
Chloritic: Few veinlets and blebs.
Mineralization
Pyrite: 5 to 8%. Disseminated and veinlets (8 to 10 per metre). Veinlets may coantain sphalerite galena iron carbonate arsenopyrite.
Arsenopyrite: With pyrite in veinlets 1 to 2 cm wide between clasts and along shear lineations. Present from 140.00 to 141.00 m.

From(m) To(m) ----------Description----------

Veins and Sub-Intervals
Iron carbonate Veining. Core axis angle 40 to 70 degrees. 6 to 12 per metre.
Quartz-carbonate Veining. Core axis angle 40 to 60 degrees. Wispy.
<163.63>-<163.86>: Pyrite Veining. Avg. width 1.00cm. Arsenopyrite also present. Veins also present from 167.20 to 167.95 m., 169.45 m., 194.46 to 195.20 m., 204.00 to 205.10 m., 207.90 to209.55 m.
<196.00>-<210.00>: Increased pyrite and quartz veining.
<210.00>-<214.60>: Increase in quartz veins up to 14 cm wide.
<214.60>-<217.10>: Increased sericite alteration (5 to 10%), potassic alteration (10 to 15%). Elongate sheared lapilli fragments. Disseminated pyrite along fractures.

217.10 230.86 ARGILLACEOUS SILSTONE/MUDSTONE (UNIT 12)
Colour: black .
Grain Size: Aphanitic to Fine.
Composition
Matrix: Carbonaceous, fine grained, laminae at 30 to 40 degrees to core axis.
Chloritic: Fine grained (sand size).
Structure
Contact: Both sharp.
Bedding: Small scale structures indicate tops downhole. They include flame structures, load casts, diapiric structures and graded bedding going downhole.
Alteration
K-feldspar: Weak. (4%)
Mineralization
Pyrite: 1 to 3%. Very fine grained disseminated throughout and few veinlets to 1 cm show black mineral.

230.86 237.13 LAPILLI FRAGMENTAL TUFF (UNIT 21)
Colour: mottled green.
Composition
Fragments: mottled green fragments.
Alteration
Sericite: Strong.
Chloritic: Moderate.
Veins
Quartz-carbonate Veining. Veinlets (5 to 8 per metre).

237.13 END OF HOLE.

Hole No.: 90-20

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
47001	1.35	2.25	.90	1.15	.034	1200	-	-	3.6	523	88	71	8.7	39420	5	3854	5	1967
47002	2.25	5.46	3.21	-	-	43	-	-	.4	23	1	82	.4	33610	1	191	1	219
47003	5.46	8.16	2.70	-	-	34	-	-	.7	13	1	115	.1	28020	1	81	1	65
47004	8.16	11.00	2.84	-	-	6	-	-	.8	4	1	98	.1	30160	1	56	1	126
47005	11.00	13.92	2.92	-	-	3	-	-	.9	3	1	206	.1	25860	1	35	1	79
47006	13.92	16.82	2.90	-	-	4	-	-	.8	21	113	123	1.6	34680	1	128	1	184
47007	16.82	19.82	3.00	-	-	12	-	-	.6	9	209	95	2.0	32440	1	41	1	60
47008	19.82	20.39	.57	-	-	488	-	-	2.3	519	320	118	9.2	30410	1	644	2	1802
47009	20.39	23.23	2.84	-	-	74	-	-	.5	6	3	83	.1	34880	1	32	1	100
47010	23.23	26.10	2.87	-	-	210	-	-	1.1	24	59	75	.1	30330	1	86	1	128
47011	26.10	27.05	.95	-	-	560	-	-	1.7	113	521	137	8.1	30860	4	362	4	413
47012	27.05	27.94	.89	-	-	458	-	-	4.4	273	138	95	1.8	32640	1	1125	1	376
47013	27.94	30.91	2.97	-	-	1	-	-	.7	8	4	81	.6	36310	1	70	1	111
47014	30.91	33.73	2.82	-	-	39	-	-	.4	19	1	155	.1	36500	1	197	1	293
47015	33.73	35.09	1.36	-	-	3	-	-	.6	38	27	103	1.7	34710	1	332	1	465
47016	35.09	36.10	1.01	-	-	61	-	-	1.0	72	236	107	9.5	31420	1	1031	4	1284
47017	36.10	37.35	1.25	-	-	76	-	-	.6	12	764	114	11.6	44300	1	220	7	301
47018	37.35	40.50	3.15	-	-	105	-	-	.2	9	223	100	4.2	35470	1	118	1	295
47019	40.50	43.30	2.80	-	-	68	-	-	.3	12	3	79	.1	44530	1	43	1	312
47020	43.30	46.11	2.81	-	-	127	-	-	.5	12	114	76	.2	43160	1	88	1	261
47021	46.11	47.18	1.07	-	-	11	-	-	.8	40	80	72	5.5	34370	1	374	1	857
47022	47.18	47.80	.62	-	-	243	-	-	1.0	14	144	67	.3	47460	1	112	1	1337
47023	47.80	50.74	2.94	-	-	237	-	-	1.2	12	201	143	5.6	31680	1	70	4	326
47024	50.74	52.20	1.46	-	-	148	-	-	.5	5	89	87	1.3	21220	1	30	1	96
47025	52.20	53.05	.85	-	-	146	-	-	.6	3	114	64	2.4	15710	1	19	1	122
47026	53.05	55.91	2.86	-	-	7	-	-	1.1	4	62	82	2.0	22750	1	37	1	66
47027	55.91	58.91	3.00	-	-	13	-	-	.7	6	64	66	.7	19980	1	26	1	417
47028	58.91	61.60	2.69	-	-	204	-	-	1.2	9	94	71	.4	24950	1	68	1	115
47029	61.60	64.55	2.95	-	-	117	-	-	1.0	5	62	68	.2	23510	1	26	1	160
47030	64.55	67.37	2.82	-	-	230	-	-	2.0	9	127	67	1.9	23280	1	102	1	240
47031	67.37	70.60	3.23	-	-	140	-	-	3.5	10	203	89	2.6	16600	1	52	4	93
47032	70.60	73.50	2.90	-	-	102	-	-	5.9	7	143	217	3.7	16690	1	38	3	47
47033	73.50	76.50	3.00	-	-	120	-	-	3.5	7	158	86	.1	17190	1	63	4	72
47034	76.50	79.50	3.00	-	-	98	-	-	1.5	8	92	78	1.1	22700	1	77	1	141
47035	79.50	82.50	3.00	-	-	97	-	-	.5	7	52	96	.5	12370	1	33	1	80
47036	82.50	85.50	3.00	-	-	130	-	-	.9	12	102	101	.7	26440	1	38	1	51
47037	85.50	87.75	2.25	-	-	291	-	-	.4	10	69	76	1.5	18590	1	29	1	14
47038	87.75	90.80	3.05	-	-	104	-	-	3.3	28	52	79	1.8	35200	1	149	2	154
47039	90.80	93.80	3.00	-	-	67	-	-	3.1	22	1	87	.1	41100	1	39	1	60
47040	93.80	96.80	3.00	-	-	61	-	-	2.3	22	1	114	.1	37580	1	89	1	76
47041	96.80	99.84	3.04	-	-	80	-	-	1.8	22	1	258	.1	34220	1	77	1	125
47042	99.84	101.84	2.00	-	-	60	-	-	2.0	26	1	175	.1	43030	1	301	1	499
47043	101.84	103.84	2.00	-	-	121	-	-	3.7	29	15	171	.1	41930	1	205	1	55
47044	103.84	105.84	2.00	-	-	40	-	-	2.0	16	1	131	.1	41600	1	147	1	427
47045	105.84	108.50	2.66	-	-	65	-	-	3.0	44	1	130	12.3	39100	1	470	1	2592
47046	108.50	110.43	1.93	-	-	41	-	-	1.2	8	1	98	.1	27960	1	129	1	90
47047	110.43	112.38	1.95	-	-	180	-	-	1.4	27	1	97	.1	45000	1	92	1	326
47048	112.38	114.20	1.82	-	-	100	-	-	1.3	10	1	105	.1	39930	1	64	1	111
47049	114.20	115.21	1.01	-	-	176	-	-	1.7	19	1	97	2.9	33270	1	172	1	415
47050	115.21	116.21	1.00	-	-	196	-	-	2.6	172	79	152	3.0	39250	1	678	1	736

Hole No.: 90-20

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
47051	116.21	117.21	1.00	-	-	60	-	-	1.2	16	1	76	.1	26230	1	81	1	246
47052	117.21	118.21	1.00	-	-	485	-	-	7.1	101	281	72	3.2	54070	1	4671	5	689
47053	118.21	119.31	1.10	-	-	307	-	-	7.8	1945	188	110	53.3	38880	6	4359	9	9362
47054	119.31	120.31	1.00	-	-	208	-	-	7.6	959	149	70	26.8	44140	3	5549	17	5473
47055	120.31	121.31	1.00	-	-	168	-	-	6.2	378	99	86	22.2	36950	4	3637	17	4560
47056	121.31	122.11	.80	-	-	180	-	-	3.6	397	122	111	15.2	38770	1	1291	11	2916
47057	122.11	123.45	1.34	-	-	86	-	-	2.4	33	1	81	.1	39180	1	172	1	133
47058	123.45	125.30	1.85	-	-	102	-	-	2.4	48	25	85	.1	40190	1	193	2	305
47059	125.30	127.30	2.00	-	-	120	-	-	2.4	36	1	97	.1	39490	1	102	4	80
47060	127.30	129.30	2.00	-	-	70	-	-	2.0	23	1	116	.1	42910	1	89	1	128
47061	129.30	131.25	1.95	-	-	86	-	-	2.5	18	4	78	.1	33060	1	137	1	29
47062	131.25	132.35	1.10	-	-	101	-	-	3.0	18	43	83	.1	35800	1	635	3	91
47063	132.35	133.35	1.00	-	-	140	-	-	1.3	12	71	89	.1	46530	1	110	1	164
47064	133.35	134.35	1.00	-	-	104	-	-	3.6	10	31	110	.1	40400	1	1081	1	93
47065	134.35	137.35	3.00	-	-	119	-	-	1.7	14	226	69	3.8	40270	1	270	1	251
47066	137.35	138.35	1.00	-	-	124	-	-	1.8	9	482	117	7.1	35360	1	88	1	217
47067	138.35	139.70	1.35	-	-	42	-	-	.8	7	1	88	.1	37480	1	23	1	72
47068	139.70	140.70	1.00	-	-	422	-	-	1.2	11	158	62	.1	47210	1	73	1	157
47069	140.70	141.80	1.10	-	-	490	-	-	1.0	6	63	60	.1	47860	1	24	1	72
47070	141.80	143.10	1.30	-	-	60	-	-	.7	3	145	127	.1	39240	1	14	1	50
47071	143.10	145.70	2.60	-	-	37	-	-	.7	3	1	93	.1	43360	1	10	1	61
47072	145.70	148.74	3.04	-	-	35	-	-	.9	9	1	58	.1	43890	1	10	1	99
47073	148.74	151.70	2.96	-	-	65	-	-	.7	4	1	72	.1	40820	1	16	1	70
47074	151.70	154.60	2.90	-	-	42	-	-	1.1	3	1	59	.1	42090	1	349	1	71
47075	154.60	157.50	2.90	-	-	36	-	-	.9	5	38	97	.1	39920	1	198	1	63
47076	157.50	160.48	2.98	-	-	60	-	-	1.4	10	37	99	.1	40910	1	127	1	70
47077	160.48	163.32	2.84	-	-	194	-	-	1.2	10	435	94	6.5	32880	1	45	3	68
47078	163.32	163.98	.66	-	-	364	-	-	.9	11	1664	101	29.6	37430	1	39	5	62
47079	163.98	165.00	1.02	-	-	102	-	-	1.0	10	195	99	1.9	25290	1	26	1	49
47080	165.00	166.90	1.90	-	-	157	-	-	.7	9	539	99	7.0	25020	1	26	3	29
47081	166.90	167.47	.57	-	-	182	-	-	.8	12	227	72	.3	33960	1	27	1	33
47082	167.47	170.00	2.53	-	-	199	-	-	2.5	35	247	132	2.3	40990	1	380	1	434
47083	170.00	171.97	1.97	-	-	24	-	-	1.1	7	1	59	.1	35720	1	103	1	237
47084	171.97	173.85	1.88	-	-	59	-	-	1.3	11	80	58	.1	41610	1	122	1	215
47085	173.85	175.85	2.00	-	-	28	-	-	.9	7	16	56	.1	35990	1	74	1	126
47086	175.85	177.85	2.00	-	-	143	-	-	.9	9	329	59	3.8	37180	1	20	1	40
47087	177.85	178.70	.85	-	-	160	-	-	.7	9	344	60	5.3	32240	1	25	1	34
47088	178.70	180.63	1.93	-	-	470	-	-	4.2	22	1143	57	27.7	58070	1	470	28	1693
47089	180.63	181.63	1.00	-	-	621	-	-	1.8	15	382	68	5.0	37190	1	332	7	431
47090	181.63	182.67	1.04	-	-	174	-	-	1.5	11	337	81	4.6	39990	1	105	13	124
47091	182.67	183.67	1.00	-	-	147	-	-	.6	9	83	72	1.0	27780	1	91	4	205
47092	183.67	184.67	1.00	-	-	218	-	-	.8	10	169	81	3.2	33280	1	45	3	258
47093	184.67	185.67	1.00	-	-	426	-	-	1.2	14	477	96	9.9	33710	1	65	4	334
47094	185.67	187.68	2.01	-	-	302	-	-	1.5	23	1158	88	21.7	34120	1	94	3	370
47095	187.68	189.72	2.04	-	-	329	-	-	2.0	20	1881	79	31.0	39220	1	304	11	312
47096	189.72	191.72	2.00	-	-	198	-	-	1.1	26	490	81	7.5	35610	1	49	5	59
47097	191.72	193.74	2.02	-	-	184	-	-	.9	22	528	75	7.6	34060	1	32	3	23
47098	193.74	194.84	1.10	-	-	411	-	-	1.4	31	3904	81	64.2	54430	1	41	13	11
47099	194.84	195.84	1.00	-	-	200	-	-	1.2	16	1450	98	24.9	36840	1	31	5	16
47100	195.84	196.94	1.10	-	-	223	-	-	2.9	19	1141	74	15.2	55160	1	65	47	14

Hole No.: 90-20

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
47101	196.94	197.94	1.00	-	-	290	-	-	3.1	35	2427	73	37.6	60550	1	61	34	3
47102	197.94	198.94	1.00	-	-	197	-	-	1.4	23	296	77	4.5	37000	1	34	3	18
47103	198.94	199.94	1.00	-	-	202	-	-	.6	10	145	69	4.5	26730	1	23	1	45
47104	199.94	200.95	1.01	-	-	254	-	-	1.0	19	1229	83	19.2	32360	1	28	5	18
47105	200.95	201.95	1.00	-	-	236	-	-	1.6	25	1538	77	25.4	42370	1	64	17	3
47106	201.95	202.95	1.00	-	-	202	-	-	.8	14	379	94	4.1	29240	1	27	1	8
47107	202.95	204.20	1.25	-	-	445	-	-	2.6	45	1164	105	18.4	50840	3	125	10	337
47108	204.20	205.20	1.00	-	-	306	-	-	1.7	29	3257	136	66.0	46870	1	287	15	1433
47109	205.20	206.20	1.00	-	-	102	-	-	.8	18	516	98	7.1	41950	1	41	1	46
47110	206.20	207.00	.80	-	-	458	-	-	2.5	37	2010	109	35.7	54290	1	117	11	126
47111	207.00	208.00	1.00	-	-	550	-	-	3.8	50	2685	108	42.8	60770	1	218	29	147
47112	208.00	209.00	1.00	-	-	358	-	-	3.4	33	1553	105	27.7	48460	1	428	16	647
47113	209.00	210.00	1.00	-	-	540	-	-	7.1	51	4010	67	72.5	53690	1	3712	45	1689
47114	210.00	211.00	1.00	-	-	307	-	-	4.3	30	1708	68	28.7	56710	1	353	55	314
47115	211.00	212.00	1.00	-	-	164	-	-	2.2	22	1215	100	18.2	37890	1	224	21	381
47116	212.00	213.00	1.00	-	-	132	-	-	1.3	11	418	66	7.6	34700	1	75	8	192
47117	213.00	214.00	1.00	-	-	124	-	-	1.8	18	613	125	7.6	36150	1	66	29	215
47118	214.00	215.00	1.00	-	-	128	-	-	.7	6	70	75	1.8	30660	1	21	1	64
47119	215.00	216.03	1.03	-	-	119	-	-	.8	7	122	71	.1	33110	1	32	1	40
47120	216.03	217.10	1.07	-	-	122	-	-	1.3	20	231	107	3.7	31080	1	26	2	82
47121	217.10	220.10	3.00	-	-	19	-	-	.5	48	1	97	.1	41470	2	29	12	92
47122	220.10	223.10	3.00	-	-	2	-	-	.8	39	1	168	.1	40110	1	26	4	92
47123	223.10	226.10	3.00	-	-	2	-	-	.6	45	1	288	.1	42690	2	29	6	91
47124	226.10	229.10	3.00	-	-	4	-	-	.6	48	1	569	.1	41600	1	19	1	103
47125	229.10	230.90	1.80	-	-	3	-	-	.2	36	1	140	.1	36700	1	20	1	102
47126	230.90	233.90	3.00	-	-	14	-	-	1.2	39	1	121	.1	54550	1	11	1	70
47127	233.90	237.13	3.23	-	-	6	-	-	1.0	30	1	51	.1	49450	1	11	1	49

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: MARK REBAGLIATI

MIN-EN LABS — ICP REPORT

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

90-20

FILE NO: OS-0586-RJ1+2
DATE: 90/10/06
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
47001	3.6	3500	88	11	71	.6	1	3430	8.7	13	523	39420	1900	1	1500	769	5	180	1	1560	3854	5	12	1	1	14.9	1967	1	2	1	1	1200
47002	.4	4860	1	7	82	.8	1	8540	.4	10	23	33610	2470	2	5870	1974	1	140	1	1640	191	1	14	1	1	19.6	219	1	1	1	1	43
47003	.7	5890	1	5	115	1.1	1	17920	.1	9	13	28020	3270	2	7720	1690	1	200	1	1600	81	1	13	1	1	20.0	65	1	1	1	1	34
47004	.8	5930	1	5	98	1.2	1	15410	.1	10	4	30160	2840	2	7470	1602	1	140	1	1770	56	1	13	1	1	21.9	126	1	1	1	1	6
47005	.9	5230	1	5	206	.9	2	24720	.1	9	3	25860	3310	1	10310	2219	1	160	1	1950	35	1	15	1	1	18.4	79	1	1	1	2	3
47006	.8	7190	113	5	123	.9	1	13560	1.6	11	21	34680	3300	3	5960	1444	1	170	1	2000	128	1	14	1	1	21.3	184	1	1	1	1	4
47007	.6	5210	209	4	95	.7	2	6370	2.0	12	9	32440	2760	2	2570	910	1	150	1	2150	41	1	15	1	1	18.2	60	1	1	1	1	12
47008	2.3	5630	320	4	118	1.0	1	4730	9.2	14	519	30410	3340	2	1430	182	1	200	1	1900	644	2	12	1	1	18.4	1802	1	1	1	5	488
47009	.5	8970	3	4	83	.6	2	15640	.1	11	6	34880	2350	5	7810	1701	1	210	1	2010	32	1	20	1	1	44.0	100	1	2	1	1	74
47010	1.1	6760	59	3	75	.8	2	15640	.1	11	24	30330	2030	4	7360	1576	1	150	1	1900	86	1	21	1	1	33.9	128	1	1	1	2	210
47011	1.7	4150	521	3	137	.9	1	4200	8.1	14	113	30860	2880	1	760	103	4	140	1	1720	362	4	12	1	1	13.6	413	1	1	1	10	560
47012	4.4	4430	138	4	95	.7	1	7130	1.8	13	273	32640	2560	1	2240	646	1	170	1	1840	1125	1	12	1	1	17.1	376	1	1	1	2	458
47013	.7	8040	4	3	81	.9	2	19720	.6	12	8	36310	2450	5	9190	2321	1	230	1	1950	70	1	22	1	1	49.7	111	1	1	1	1	1
47014	.4	9650	1	4	155	.9	2	15480	.1	13	19	36500	2820	5	7670	2091	1	180	1	1900	197	1	12	1	1	41.9	293	1	1	1	1	39
47015	.6	7760	27	4	103	.9	1	10140	1.7	12	38	34710	3290	3	4220	1155	1	180	1	1960	332	1	10	1	1	25.2	465	1	1	1	1	3
47016	1.0	4440	236	3	107	.8	2	6050	9.5	13	72	31420	2540	1	1400	387	1	190	1	1770	1031	4	16	1	1	19.1	1284	1	1	1	4	61
47017	.6	5570	764	4	114	.7	1	4090	11.6	15	12	44300	3240	1	950	62	1	180	1	1890	220	7	16	1	1	16.4	301	1	1	1	1	76
47018	.2	7170	223	3	100	.7	1	5880	4.2	11	9	35470	3470	2	2970	1342	1	170	1	1800	118	1	12	1	1	26.0	295	1	1	1	1	105
47019	.3	8910	3	4	79	1.0	2	15230	.1	18	12	44530	3030	4	7830	3326	1	190	1	1730	43	1	8	1	1	40.9	312	1	2	1	1	68
47020	.5	7090	114	4	76	.8	2	12570	.2	14	12	43160	2730	3	5630	2913	1	180	1	1720	88	1	15	1	1	35.1	261	1	2	1	1	127
47021	.8	6360	80	3	72	.7	1	6250	5.5	13	40	34370	2800	3	2790	1628	1	140	1	2180	374	1	18	1	1	21.3	857	1	1	1	1	11
47022	1.0	8370	144	4	67	.9	2	7280	.3	17	14	47460	3320	6	4060	2372	1	90	1	1500	112	1	21	1	1	26.9	1337	1	1	1	1	243
47023	1.2	2960	201	2	143	.5	2	3360	5.6	9	12	31680	2030	1	660	405	1	210	1	1070	70	4	13	1	1	10.0	326	1	1	1	25	237
47024	.5	3270	89	2	87	.7	1	2930	1.3	8	5	21220	2540	1	370	97	1	220	1	1370	30	1	11	1	1	7.6	96	1	1	1	18	148
47025	.6	3210	114	2	64	.5	1	2830	2.4	6	3	15710	2140	1	560	87	1	160	1	1300	19	1	9	1	1	9.3	122	1	1	1	20	146
47026	1.1	4420	62	2	82	.5	1	12440	2.0	7	4	22750	2570	2	2290	758	1	180	1	1240	37	1	22	1	1	14.1	66	1	1	1	21	7
47027	.7	5580	64	2	66	.6	2	5780	.7	9	6	19980	2300	3	2740	729	1	150	1	1310	26	1	12	1	1	15.8	417	1	1	1	16	13
47028	1.2	5330	94	2	71	.5	2	11070	.4	12	9	24950	2560	3	4340	1211	1	150	1	1310	68	1	14	1	1	16.5	115	1	1	1	18	204
47029	1.0	5210	62	2	68	.6	2	10300	.2	10	5	23510	2330	3	4060	1240	1	150	1	1220	26	1	12	1	1	15.6	160	1	1	1	18	117
47030	2.0	2570	127	2	67	.6	2	5300	1.9	10	9	23280	1980	1	1490	585	1	80	1	1070	102	1	7	1	1	7.1	240	1	1	1	18	230
47031	3.5	2820	203	8	89	.4	1	1780	2.6	6	10	16600	2000	1	210	20	1	170	1	940	52	4	9	1	1	5.5	93	1	1	1	24	140
47032	5.9	3350	143	6	217	.8	1	2170	3.7	7	7	16690	2540	1	260	21	1	180	1	1070	38	3	8	1	1	6.5	47	1	1	1	26	102
47033	3.5	2430	158	4	86	.7	1	2240	.1	7	7	17190	2050	1	250	17	1	160	1	1110	63	4	8	1	1	5.6	72	1	1	1	23	120
47034	1.5	3810	92	4	78	.8	2	4700	1.1	8	8	22700	2750	1	1380	340	1	140	1	1460	77	1	19	1	1	7.1	141	1	1	1	4	98
47035	.5	4610	52	2	96	.3	1	2410	.5	4	7	12370	2950	2	1180	192	1	120	2	860	33	1	9	1	1	5.6	80	1	1	1	18	97
47036	.9	5240	102	3	101	.9	2	5740	.7	9	12	26440	3440	1	2000	560	1	130	1	1330	38	1	14	1	1	7.1	51	1	1	1	5	130
47037	.4	4030	69	2	76	.9	1	4060	1.5	6	10	18590	2860	1	1270	264	1	100	1	970	29	1	9	1	1	5.0	14	1	1	1	10	291
47038	3.3	9040	52	3	79	.9	1	11520	1.8	10	28	35200	2010	7	10100	1470	1	80	4	910	149	2	16	1	1	18.4	154	1	1	1	1	104
47039	3.1	14410	1	3	87	.4	2	26080	.1	11	22	41100	2150	11	24020	3483	1	80	2	980	39	1	20	1	1	27.6	60	1	2	1	1	67
47040	2.3	15570	1	3	114	.8	2	13580	.1	12	22	37580	2650	12	17130	2278	1	100	7	970	89	1	6	1	1	28.6	76	1	2	1	1	61
47041	1.8	12940	1	2	258	.9	2	18080	.1	11	22	34220	2420	9	13910	2576	1	110	10	870	77	1	18	1	1	25.1	125	1	2	1	3	80
47042	2.0	21560	1	3	175	.7	3	21750	.1	11	26	43030	2540	17	28480	4387	1	90	13	830	301	1	7	1	1	39.5	499	1	3	1	3	60
47043	3.7	14860	15	3	171	1.1	2	7250	.1	13	29	41930	3300	9	12420	1382	1	120	6	910	205	1	7	1	1	30.2	55	1	1	1	1	121
47044	2.0	23310	1	2	131	1.1	2	6290	.1	11	16	41600	2940	18	22610	1743	1	80	3	1040	147	1	3	1	1	36.1	427	1	1	1	1	40
47045	3.0	15490	1	3	130	.6	2	6850	12.3	13	44	39100	3120	10	13430	1368	1	110	4	890	470	1	8	1	1	28.2	2592	1	2	1	1	65
47046	1.2	14110	1	1	98	1.0	1	11900	.1	14	8	27960	2650	9	17670	1579	1	90	2	1570	129	1	12	1	1	29.2	90	1	1	1	3	41
47047	1.4	20730	1	2	97	1.2	1	6940	.1	13	27	45000	2700	15	24410	1547	1	50	1	1020	92	1	8	1	1	31.8	326	1	1	1	1	180
47048	1.3	20530	1	2	105	1.1	2	12180	.1	15	10	39930	2840	17	26660	2029	1	60	3	1190	64	1	8	1	1	36.6	111	1	2	1	1	100
47049	1.7	14730	1	2	97	1.0	3	21480	2.9	11	19	33270	3120	10	23260	2923	1	120	6	830	172	1	7	1	1	24.3	415	1	2	1	7	176
47050	2.6	12840	79	2	152	1.1	2	19240	3.0	11	172	39250	2370	10	18730	2420	1	80	1	790	678	1	15	1	1	22.9	736	1	2	1	1	196
47051	1.2	10990	1	1	76	1.1	2	12150	.1	8	16	26230	2440	7	13590	1699	1	60	6	900	81	1	9	1	1	13.3	246	1	2	1	1	60
47052	7.1	8740	281	3	72	.5	2	14060	3.2	13	101	54070	2210	6	9740	1500	1	60	1	810	4671	5	20	1	1	16.3	689	1	1	1	1	485
47053	7.8	6660	188	3	110	.6	1	13510	53.3	11	1945	38880	2430	4	7600	1373	6	40	1	730	4359	9	23	1	1	9.2	9362	1	2	1	2	307
47054	7.6	4480	149	3	70	.6	1	3970	26.8	12	959	44140	2190	2	2160	342	3	120	3	1010	5549	17	13	1	1	8.1	5473	1	2	1	1	208
47055	6.2	4610	99	3	86	.8	1	3210	22.2	10	378	36950	2580	1	1430	254	4	110	4	970	3637	17	13	1	1	7.1	4560	1	1	1	1	168
47056	3.6	7320	122	3	111	.6	1	3440	15.2	10	397	38770	2880	4	4150	376	1	110	5	1050	1291	11	12	1	1	11.7	2916	1	1	1	2	180
47057	2.4	15040	1	2	81	1.2	2	4760	.1	11	33	39180	2310	11	13250	1031	1	90	7	990	172	1	7	1	1	25.5	133	1	1	1	1	86
47058	2.4	12380	25	2	85	.4	2	15790	.1	11	48	40190	2460	9	12490	2004	1	130	5	900	193	2	10	1	1	30.0	305	1	2	1	3	102
47059	2.4	11300	1	2	97	1.0	2	5550	.1	12	36	39490	2590	7	8480	863	1	90	4	970	102	4	7	1	1	21.0	80	1	1	1	1	120
47060	2.0	22860	1	2	116	1.3	1	7770	.1	11	23	42910	2010	20	27570	1742	1	70	9	910	89	1	4	1	1	33.3	128	1	2	1	6	70

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: S1B
ATTN: MARK REBAGLIATI

MIN-EN LABS — ICP REPORT

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

90-20

FILE NO: 0S-0586-RJ3+4
DATE: 90/10/06
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
47061	2.5	9620	4	10	78	.8	1	10160	.1	10	18	33060	2460	7	10830	1240	1	100	5	860	137	1	8	1	1	18.1	29	1	2	1	5	86
47062	3.0	7420	43	7	83	1.0	1	7000	.1	9	18	35800	2130	5	6970	795	1	50	1	760	635	3	15	1	1	11.9	91	1	2	1	1	101
47063	1.3	15830	71	7	89	.7	2	11280	.1	14	12	46530	2770	14	15130	1524	1	40	1	1490	110	1	10	1	1	40.7	164	1	2	1	1	140
47064	3.6	15130	31	6	110	.6	1	11550	.1	13	10	40400	2850	14	14640	1530	1	90	1	1420	1081	1	12	1	1	39.0	93	1	2	1	1	104
47065	1.7	14800	226	4	69	.6	2	7600	3.8	13	14	40270	2270	13	13370	1139	1	90	1	1590	270	1	10	1	1	41.7	251	1	2	1	1	119
47066	1.8	9400	482	4	117	.7	1	5890	7.1	13	9	35360	2480	7	6320	455	1	60	1	2170	88	1	15	1	1	35.6	217	1	1	1	4	124
47067	.8	14590	1	4	88	.9	1	5300	.1	12	7	37480	2140	14	13590	817	1	40	1	1430	23	1	9	1	1	48.6	72	2	1	1	4	42
47068	1.2	20340	158	4	62	1.3	1	4330	.1	13	11	47210	2550	20	19600	996	1	90	1	1790	73	1	7	1	1	50.1	157	1	2	1	1	422
47069	1.0	18030	63	4	60	1.0	2	3640	.1	17	6	47860	1800	19	18050	1028	1	120	1	1480	24	1	8	1	1	57.9	72	1	3	1	1	490
47070	.7	17350	145	3	127	.7	2	4540	.1	12	3	39240	1820	17	18740	1290	1	70	1	1410	14	1	8	1	1	61.4	50	1	1	1	2	60
47071	.7	20930	1	3	93	.8	1	5150	.1	14	3	43360	1770	20	23890	1337	1	70	1	1390	10	1	11	1	1	65.1	61	1	3	1	1	37
47072	.9	26120	1	3	58	.8	1	3850	.1	15	9	43890	1220	26	29710	1630	1	180	1	1310	10	1	6	1	1	101.2	99	1	2	1	1	35
47073	.7	22190	1	5	72	1.0	2	4070	.1	14	4	40820	1940	22	24300	1416	1	110	1	1460	16	1	8	1	1	65.2	70	1	2	1	1	65
47074	1.1	24680	1	3	59	1.0	2	4020	.1	14	3	42090	1830	26	29010	1543	1	110	1	1340	349	1	5	1	1	69.9	71	1	2	1	1	42
47075	.9	9430	38	7	97	.6	2	4770	.1	13	5	39920	2740	6	13670	1074	1	130	1	1400	198	1	32	1	1	31.6	63	1	2	1	3	36
47076	1.4	10380	37	7	99	.5	2	4910	.1	14	10	40910	2590	9	13730	993	1	150	1	1560	127	1	29	1	1	38.4	70	1	2	1	1	60
47077	1.2	3520	435	5	94	.5	2	3890	6.5	13	10	32880	2660	1	1690	194	1	40	1	1620	45	3	19	1	1	11.8	68	1	1	1	2	194
47078	.9	4180	1664	5	101	.7	1	3540	29.6	14	11	37430	3210	1	610	28	1	50	1	1660	39	5	12	1	1	16.3	62	1	1	1	6	364
47079	1.0	5000	195	4	99	.5	2	4150	1.9	13	10	25290	3770	1	1010	120	1	40	1	1580	26	1	14	1	1	19.3	49	1	1	1	11	102
47080	.7	4530	539	4	99	.5	2	3730	7.0	11	9	25020	3310	1	660	56	1	40	1	1630	26	3	11	1	1	15.8	29	1	1	1	20	157
47081	.8	9240	227	3	72	1.0	1	3620	.3	12	12	33960	3200	6	4880	428	1	70	1	1540	27	1	8	1	1	28.8	33	1	1	1	10	182
47082	2.5	6470	247	5	132	.4	1	4890	2.3	16	35	40990	2930	4	4670	588	1	60	1	1650	380	1	19	1	1	22.9	434	1	1	1	7	199
47083	1.1	13770	1	3	59	.6	2	8700	.1	13	7	35720	2190	13	11270	1357	1	120	1	1590	103	1	17	1	1	50.9	237	1	1	1	2	24
47084	1.3	13920	80	4	58	1.2	2	4840	.1	16	11	41610	2450	13	10220	946	1	120	1	1700	122	1	11	1	1	47.7	215	2	2	1	1	59
47085	.9	12600	16	3	56	.7	1	4740	.1	13	7	35990	2210	11	9550	900	1	140	1	1670	74	1	10	1	1	47.5	126	1	1	1	4	28
47086	.9	10120	329	3	59	.8	1	3800	3.8	13	9	37180	2140	10	7880	598	1	80	1	1620	20	1	13	1	1	37.7	40	1	2	1	6	143
47087	.7	8250	344	4	60	.6	1	3530	5.3	13	9	32240	2900	6	5220	437	1	80	1	1620	25	1	10	1	1	26.7	34	1	1	1	12	160
47088	4.2	2780	1143	5	57	1.1	1	2940	27.7	16	22	58070	2320	1	330	3	1	60	1	1390	470	28	11	1	1	10.2	1693	1	2	1	1	470
47089	1.8	3310	382	4	68	.8	1	3300	5.0	15	15	37190	2790	1	330	9	1	90	1	1500	332	7	10	1	1	11.4	431	1	1	1	9	621
47090	1.5	3060	337	5	81	.5	1	3420	4.6	14	11	39990	2510	1	390	27	1	100	1	1490	105	13	13	1	1	12.4	124	1	1	1	22	174
47091	.6	5530	83	12	72	.2	1	3590	1.0	11	9	27780	2550	4	3010	325	1	120	1	1650	91	4	11	1	1	26.3	205	1	1	1	21	147
47092	.8	4330	169	9	81	.6	2	4880	3.2	13	10	33280	3270	1	1900	265	1	80	1	1560	45	3	18	1	1	16.6	258	1	1	1	23	218
47093	1.2	3560	477	7	96	.6	1	3280	9.9	14	14	33710	2810	1	320	21	1	40	1	1570	65	4	11	1	1	16.0	334	1	1	1	22	426
47094	1.5	3240	1158	6	88	.5	1	2990	21.7	13	23	34120	2620	1	260	15	1	40	1	1520	94	3	10	1	1	13.8	370	1	1	1	31	302
47095	2.0	3570	1881	5	79	.6	1	3260	31.0	14	20	39220	2760	1	280	14	1	40	1	1730	304	11	11	1	1	15.0	312	1	1	1	17	329
47096	1.1	2820	490	5	81	.6	1	2930	7.5	13	26	35610	2340	1	220	14	1	40	1	1470	49	5	9	1	1	11.1	59	1	1	1	23	198
47097	.9	3410	528	4	75	.8	1	3300	7.6	13	22	34060	2600	1	250	8	1	50	1	1620	32	3	10	1	1	13.4	23	1	1	1	18	184
47098	1.4	3780	3904	5	81	1.0	1	3240	64.2	18	31	54430	2860	1	280	1	1	40	1	1660	41	13	10	1	1	15.3	11	1	2	1	12	411
47099	1.2	4430	1450	4	98	.8	1	2900	24.9	13	16	36840	3450	1	320	14	1	50	1	1490	31	5	10	1	1	16.8	16	1	1	1	50	200
47100	2.9	3620	1141	6	74	.5	1	2860	15.2	14	19	55160	2920	1	240	1	1	60	1	1450	65	47	12	1	1	13.8	14	1	2	1	17	223
47101	3.1	3550	2427	8	73	1.0	1	2870	37.6	15	35	60550	2680	1	230	1	1	60	1	1410	61	34	14	1	1	11.1	3	1	2	1	1	290
47102	1.4	4470	296	8	77	.9	1	3930	4.5	15	23	37000	3250	1	320	13	1	70	1	1880	34	3	14	1	1	14.6	18	1	2	1	16	197
47103	.6	3670	145	4	69	.3	1	3620	4.5	13	10	26730	2980	1	280	10	1	50	1	1750	23	1	12	1	1	13.2	45	1	1	1	20	202
47104	1.0	3750	1229	4	83	.5	1	3500	19.2	13	19	32360	3150	1	270	4	1	50	1	1720	28	5	12	1	1	15.6	18	1	1	1	21	254
47105	1.6	2960	1538	3	77	.2	1	3080	25.4	16	25	42370	2600	1	220	2	1	40	1	1610	64	17	10	1	1	12.6	3	1	1	1	13	236
47106	.8	4240	379	4	94	.7	1	3770	4.1	13	14	29240	3220	1	310	11	1	40	1	1890	27	1	12	1	1	16.6	8	1	1	1	24	202
47107	2.6	3420	1164	5	105	.8	2	3050	18.4	16	45	50840	2680	1	240	1	3	40	1	1480	125	10	11	1	1	16.2	337	1	1	1	20	445
47108	1.7	2570	3257	4	136	.7	1	2910	66.0	18	29	46870	2340	1	180	1	1	30	1	1600	287	15	13	1	1	13.1	1433	1	2	1	26	306
47109	.8	3510	516	4	98	.9	1	3330	7.1	15	18	41950	2720	1	260	4	1	40	1	1630	41	1	11	1	1	15.4	46	1	1	1	20	102
47110	2.5	2890	2010	5	109	1.2	1	3160	35.7	16	37	54290	2310	1	210	1	1	30	1	1520	117	11	13	1	1	15.0	126	1	1	1	19	458
47111	3.8	2560	2685	5	108	.7	1	2920	42.8	16	50	60770	2320	1	170	1	1	30	1	1530	218	29	15	1	1	11.5	147	1	2	1	18	550
47112	3.4	2490	1553	4	105	.6	2	2950	27.7	14	33	48460	2210	1	190	7	1	40	1	1470	428	16	11	1	1	10.5	647	1	1	1	34	358
47113	7.1	3170	4010	5	67	.6	1	2780	72.5	14	51	53690	2330	1	250	6	1	130	1	1420	3712	45	10	1	1	11.0	1689	1	2	1	31	540
47114	4.3	3500	1708	5	68	.9	1	3500	28.7	12	30	56710	2500	1	330	4	1	70	1	1780	353	55	14	1	1	12.0	314	1	1	1	47	307
47115	2.2	3450	1215	4	100	.7	1	3260	18.2	13	22	37890	2710	1	270	12	1	100	1	1620	224	21	12	1	1	11.2	381	1	2	1	46	164
47116	1.3	3580	418	3	66	.6	1	3140	7.6	11	11	34700	2480	1	310	11	1	190	1	1440	75	8	12	1	1	13.8	192	1	1	3	78	132
47117	1.8	3840	613	4	125	.9	1	5630	7.6	12	18	36150	2770	1	390	27	1	40	1	2560	66	29	16	1	1	11.6	215	1	2	1	33	124
47118	.7	5860	70	3	75	1.1	2	5170	1.8	11	6	30660	4170	1	620	43	1	40	1	2280	21	1	13	1	1	13.6	64	1	1	1	15	128
47119	.8	5590	122	4	71	1.2	2	5710	.1	13	7	33110	3740	1	530	57	1	40	1	2460	32	1	16	1	1	13.8	40	1	1	1	20	119
47120	1.3	8220	231	5	107	1.3	2	7480	3.7	11	20	31080	5060	1	780	41	1	40	1	3120	26	2	16	1	1	14.6	82	1	1	1	13	122

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: MARK REBAGLIATI

MIN-EN LABS — ICP REPORT

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

90-20

FILE NO: 0S-0586-RJ5
DATE: 90/10/06
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
47121	.5	18040	1	12	97	2.0	2	8410	.1	14	48	41470	3880	14	8960	579	2	90	8	870	29	12	18	1	1	29.9	92	1	1	1	1	19
47122	.8	21070	1	9	168	.9	2	17100	.1	13	39	40110	3130	19	16690	694	1	100	5	850	26	4	17	1	1	37.6	92	1	1	1	1	2
47123	.6	21520	1	9	288	1.9	2	15190	.1	14	45	42690	3440	19	18140	613	2	90	5	810	29	6	14	1	1	35.4	91	1	1	1	1	2
47124	.6	24370	1	8	569	2.0	2	17130	.1	14	48	41600	3650	20	23020	711	1	90	9	990	19	1	19	1	1	40.4	103	1	2	1	1	4
47125	.2	25900	1	8	140	2.0	2	3730	.1	13	36	36700	4520	17	16300	200	1	80	14	910	20	1	20	1	1	38.0	102	1	1	1	1	3
47126	1.2	41490	1	8	121	2.2	3	24230	.1	31	39	54550	1500	52	54170	982	1	110	20	360	11	1	25	1	1	120.6	70	1	2	1	14	14
47127	1.0	35880	1	8	51	1.6	2	26160	.1	23	30	49450	1880	42	45030	899	1	80	16	370	11	1	24	1	1	87.5	49	1	3	1	9	6

MIN
• EN
LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

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90-20

Assay Certificate

OS-0586-RA1

Company: COASTAL MTN.ENGRG.
Project: SB
Attn: M.REBAGLIATI

Date: OCT-05-90
Copy 1. COASTAL MTN.ENGRG., VANCOUVER, B.C.
2. COASTAL MTN.ENGRG., C/O TUNDRA

He hereby certify the following Assay of 1 ROCK samples submitted SEP-26-90 by R.HASLINGER.

Sample Number	AU g/tonne	AU oz/ton
47001	1.15	.034

Certified by

MIN-EN LABORATORIES

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-21

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 104B/9	CLAIM #	: SIB 6		
LOCAL GRID	: 10571.83 N / 9984 .71 E	GLOBAL GRID	: 14651.56 N / 18768.82 E	ELEVATION	: 1155.00 metres
LENGTH	: 149.06 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 147.5 degrees
OVERBURDEN	: 4.66 m	CASING	: 4.66 metres	ASSAYING BY	: Min-En Labs
LOGGED BY	: Guy LePage	DRILLED BY	: J.T. Thomas	CORE LOCATION:	101+00 N, 98+00 E
DATE LOGGED	: 1990/09/18 Y/M/D	DATE DRILLED	: 1990/09/13 Y/M/D	SAMPLE NO. SERIES:	48199-48276

ACID TESTS

Depth	Dip	Azimuth
149.06	-46.0	297.0

SUMMARY LOG 90-21

From(m)	To(m)	Field Name (Legend)
0.00	4.66	CASING
4.66	41.59	POTASSIC FLOODED TUFF (UNIT 11)
41.59	42.06	ARGILLACEOUS MUDSTONE/ VOLCANIC BRECCIA/FRAGMENTAL (UNIT 12)
42.06	46.34	POTASSIC FLOODED TUFF (UNIT 11)
46.34	46.55	ARGILLACEOUS MUDSTONE/VOLCANIC FRAGMENTAL (UNIT 12)
46.55	59.27	POTASSIC FLOODED PLAGIOCLASE PORPHYRY TUFFACEOUS FRAGMENTAL ANDESITE (UNIT 11)
59.27	65.18	ARGILLACEOUS FRAGMENTAL (UNIT 12)
65.18	69.43	ANDESITIC FRAGMENTAL (UNIT 11)
69.43	70.20	SILICIFIED ARGILLACEOUS MUDSTONE (UNIT 12)
70.20	87.41	POTASSIC FLOODED-SERICITIZED TUFF +- FRAGMENTAL (UNIT 11)
87.41	119.70	POTASSIC FLOODED PLAGIOCLASE PORPHYRY TUFF (UNIT 11)
119.70	120.06	WACKE (UNIT 15)
120.06	120.30	ARGILLACEOUS MUDSTONE SANDSTONE (UNIT 12)
120.30	149.05	ANDESITIC TUFF grading to POTASSIC FLOODED ANDESITIC TUFF (UNIT 11)
149.05		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-21

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
25.50	31.00	4.50	0.011			
32.00	33.00	1.00	0.081			
36.00	37.00	1.00	0.027			
55.75	57.75	2.00	0.014			
144.00	146.00	2.00	0.015			

From(m)	To(m)	Description
0.00	4.66	CASING
4.66	41.59	POTASSIC FLOODED TUFF (UNIT 11) Plagioclase Phenocrysts: Sericitized and rarely saussuritized, 0.5 to 3 mm with an average length of 2 mm. Composition Groundmass: Dark to medium grey, aphanitic plagioclase rich. Structure Jointing: 60 degrees to core axis Lineation: 70 degrees to core axis Reflected by plagioclase sericite chlorite k-feldspar veins and stockwork. Quartz+- iron carbonate veins parallel to joint array (3 mm wide) from 4.66 to 27.31 m. Alteration K-feldspar: Moderate to Strong. Numerous veins from 1 to 40 mm wide parallel to shearing orientation of 70 to 80 degrees to core axis. Vein alteration grades into pervasive style. 12.80 to 15.50 m is intense stockwork. Overall 60% k-feldspar. Sericite: Moderate. Along with chlorite form alteration halos around plagioclase phenocrysts which show a preferred orientation of 70 to 80 degrees to core axis. Mineralization Pyrite: 2 to 3%. Coarse euhedral blebs (5 to 20 mm average 10 to 12 mm) usually with calcite alteration halo. Fine grained disseminated, clusters adn descrete veins. Galena: Trace. At 22.00 metres +- sphalerite as discrete blebs or selvedges within quartz - chlorite veins at 60 degrees to core axis (1 per metre) averaging 2 to 3 mm(range 1 to 15 mm). Sub-Intervals <4.66>-<7.50>: Oxidation zone with limonite coated fractures. <27.31>-<41.62>: Increased potassic flooding. Pale green sericte to pink grey to light grey pervasive alteration assemblege. Assemblege is crosscut by quartz veins(1 to 15 mm average 3 to 4 mm) at varied degrees to core axis +- chlorite. Pyrite 4 to 5% as fine grained specs, blebs + veins at 50 to 70 degrees to core axis. +- sericite, carbonate, chlorite. Trace galena, sphalerite in iron carbonate veins.

From(m)	To(m)	Description
41.59	42.06	ARGILLACEOUS MUDSTONE/ VOLCANIC BRECCIA/FRAGMENTAL (UNIT 12) Composition Fragments: Medium to coarse grained, volcanic, 70 to 30 clasts to groundmass ratio. Usually sub-rounded to subangular, aphanitic plagioclase rich groundmass with porphyry phase of euhedral to subhedral sericitized plagioclase phenocrysts average 2 to 3 mm in length(30 to 35% of fragments). Groundmass: Black fine grained argillaceous. Bedding unclear and mineral lineation defined by k-feldspar and sulphides is alteration feature. Alteration K-feldspar: Strong. Flooding of fragments (70 to 80 %). Sericite: Intense alteration of plagioclase phenocrysts. Mineralization Pyrite: 3 to 4%. Disseminated and blebs throughout. Often associated with margins of clasts.
42.06	46.34	POTASSIC FLOODED TUFF (UNIT 11) Plagioclase Phenocrysts: Euhedral to subhedral, weakly to moderately sericitized, average 2 to 3 mm in length. Composition Groundmass: Dark grey to black, fine grained, aphanitic plagioclase rich. Structure Jointing: 60 degrees to core axis Alteration K-feldspar: Strong. Intense overprint, pervasive (60 to 80% throughout). Mineralization Pyrite: 3 to 5%. Mostly as net veins+- chlorite, average 3 to 5 mm, range 2 to 12 mm, density 30 per metre, also as disseminations and blebs. Veins Quartz Veining. Core axis angle 20 degrees. Numerous veins average 7 mm wide rang from 2 to 15 mm wide. Post date potassic alteration.

From(m)	To(m)	Description
46.34	46.55	ARGILLACEOUS MUDSTONE/VOLCANIC FRAGMENTAL (UNIT 12) Composition Lithology: Similar to 41.59 to 42.06 metres. Structure Upper contact: 50 degrees to core axis Lower contact: 70 to 80 degrees to core axis
46.55	59.27	POTASSIC FLOODED PLAGIOCLASE PORPHYRY TUFFACEOUS FRAGMENTAL ANDESITE (UNIT 11) Composition Groundmass: 10 to 20%. Black, aphanitic, plagioclase rich, often k-feldspar flooded. Fragments: Sub-rounded to angular from few mm's up to 50 cm in width.Consist of fine grained aphanitic plagioclase rich groundmass with porphyry phase of euhedral to subhedral weakly sericitized plagioclase phenocrysts average 2 to 3 mm in length. Structure Jointing: 20 and 60 degrees to core axis. Mineralization Pyrite: 3 to 5%. Medium to coarse blebs and discrete veins and clusters bordering fragments. Also veins oriented at varied degrees to core axis crosscutting fragments. Also as fine grained disseminated in altered and unaltered andesites. Sphalerite: 2 to 3%. Blebs, selvedges within quartz veins at 20 to 30 degrees to core axis averaging 20 mm in width at 55.25 to 55.30 metres. Blebs average 4 to 5 mm in width. Trace galena. Veins Quartz Veining. Core axis angle 20 to 60 degrees. Crosscut unit, numerous, late stage, 2 to 10 mm average 2 to 3 mm.
59.27	65.18	ARGILLACEOUS FRAGMENTAL (UNIT 12) Composition Matrix: Argillaceous mudstone which comprises 75 to 80 % of the interval. Bedding unclear due to alteration however it appears to wrap around volcanic fragments. Clasts: 20 to 25%. Plagioclase porphyry strongly k-feldspar flooded tuff, angular to sub-rounded from 2 to 25 cm in length average 15 to 20 mm in width. Structure Jointing: 55 to 60 degrees to core axis

From(m)	To(m)	Description
		Alteration K-feldspar: Strong. Flooding 70 to 80% of the volcanic fragments throughout. Sericite: Moderate. Some plagioclase phenocrysts appear to have altered to a yellowish green. Most phenocrysts show some degree of alteration. Mineralization Pyrite: 3 to 5%. Fine grained disseminated and as discrete laminations (diagenetic/syngenetic?) within argillaceous beds average 1 to 15 mm in width mostly at 50 degrees to core axis. In volcanic fragments as clusters and disseminated (anywhere) from 3 to 20% by volume. Also veins variably oriented. Coarse blebs to 30 mm. Veins Quartz Veining. 10 to 20 degrees to core axis and 55 to 60 degrees to core axis. Numerous veins, crosscut unit, average 5 mm in length, range from 1 to 10 mm, Veins at 20 degrees to core axis postdate the veins at 60 degrees to core axis.
65.18	69.43	ANDESITIC FRAGMENTAL (UNIT 11) Composition Lithology: Similar to 46.55 to 59.27 metres.
69.43	70.20	SILICIFIED ARGILLACEOUS MUDSTONE (UNIT 12) Composition Mudstone: Well bedded mudstone with layers defined by alternating black siliceous chalcedonic layers, felsic-quartzose rich layers. Structure Upper contact: 60 to 70 degrees to core axis Lower contact: 40 degrees to core axis Faulted, gouged and argillitized. Mineralization Pyrite: 3 to 5%. Lenticular lenses average 10 mm width at 60 degrees to core axis.
70.20	87.41	POTASSIC FLOODED-SERICITIZED TUFF +- FRAGMENTAL (UNIT 11) Composition Lithology: Unit is probably plagioclase porphyry tuff. Certain intervals contain fragmental horizons from 5 to 10 cm wide. Fragments: Tightly packed, potassic flooded/sericitized, average 10 to 15 mm in width, interstial chlorite-k-feldspar-pyrite.

From(m) To(m) ----------Description----------

Structure
Jointing: 50 to 60 degrees to core axis
Alteration
K-feldspar: Strong. Combined with sericite to give 70 to 85% pervasive alteration assemblege variable from pale green to grey white. Texture distructive.
Mineralization
Pyrite: 4 to 5%. Stockwork assemblege +-chlorite+-quartz+-k-feldspar forming discrete veins 1 to 4mm wide average 2 to 3 mm wide throughout. Also as blebs and fine grained disseminated.
Veins
Quartz-carbonate Veining. Core axis angle 20 to 60 degrees. Cross cut unit, 1 to 10 mm in width average 2 to 3 mm width. Veins at 45 to 60 degrees to core axis post-dated by veins at 10 to 20 degrees to core axis.

87.41 119.70 POTASSIC FLOODED PLAGIOCLASE PORPHYRY TUFF (UNIT 11)
Composition
-: similar to 42.06 to 46.34 metres.
Structure
Jointing: 60 degrees to core axis Less commonly at 20 degrees to core axis.
Alteration
Potassic: Very Strong. Intense flooding throughout(80 to 90%). Secondary k-feldspar in combination with sericite giving a pale green color and grading through to pink white to cream color. Texture destroying throughout.
Mineralization
Pyrite: 3 to 5%. Veins(+-Chlorite) and stockwork from 0.3 to 8 mm(average 3 mm) in width. Also as blebs and selvedges within quartz veins at high degrees to core axis that are 2 to 10 mm wide(average 3 to 4 mm). Frequency 10 per metre.
Sphalerite: Trace. As selvedges from 92.50 to 98.00 metres. Also trace galena.
Veins
Iron carbonate Veining. Core axis angle 20 degrees. Post date quartz veins, average 1 to 2 mm wide. Also iron carbonate-quartz vein from 8 to 15 mm wide(average 10mm) oriented from 20 to 40 degrees to core axis containing potassic flooded volcanic fragments +-sphalerite+-galena.
Quartz Veining. Core axis angle 50 to 60 degrees. To a lesser extent 20 degrees to core axis. Crosscut unit, abundant, 1 to 12 mm average 3 mm width (>50 per metre).

From(m)	To(m)	Description
119.70	120.06	WACKE (UNIT 15) Composition Lithology: Mixture of black plagioclase porphyry andesites and black argillaceous mudstones. Mineralization Pyrite: 1 to 2%. Blebs and disseninations. Veins Quartz Veining. Core axis angle 20 to 40 degrees. Stockwork and vein array overprint the unit. Potassic Veining. Minor.
120.06	120.30	ARGILLACEOUS MUDSTONE SANDSTONE (UNIT 12) Composition Lithology: Unit consists of a black argillaceous mudstone as fragments and descrete beds at varied degrees to core axis within a more massive silty sandstone unit which comprises upto 70% of the interval. Mineralization Pyrite: Trace. Fine grained disseminated specs. Veins Quartz Veining. Core axis angle 1 to 20 degrees. Flat lying vein array 0.5 to 3 mm wide(average 1.5 to 2mm)..
120.30	149.05	ANDESITIC TUFF grading to POTASSIC FLOODED ANDESITIC TUFF (UNIT 11) Plagioclase Phenocrysts: Euhedral to subhedral, moderately to strongly sericitized(35%), average 2 to 3 mm in width. Composition Groundmass: Black, aphanitic, plagioclase rich. Structure Upper contact: 45 degrees to core axis Alteration K-feldspar: Increase in flooding from 124.10 metres to the end of the hole. Sub-Intervals <120.30>-<124.10>: Intense k-feldspar flooding, strong quartz and k-feldspar stockwork alternating with unaltered andesite intervals. Pyrite 2 to 3 % as blebs, disseminated and associated with

From(m)	To(m)	Description
		chloritic stockwork veins averaging 1 to 2 mm in width at 50 to 60 degrees to core axis.+- lithic fragments. Upper contact sheared at 45 degrees to core axis.
		<135.60>-<139.00>: Trace sphalerite and galena in selvedges within iron carbonate and chlorite veins at 50 to 60 degrees to core axis from 4 to 8 mm wide(average 5 mm). Frequency 1 vein per metre.
		<140.15>-<140.40>: Galena (2 to 3%), sphalerite (trace) and pyrite (3 to 5%) in a pyrite- chlorite-k-feldspar stockwork.
		<142.79>-<143.51>: FAULT. Contact unclear, gouge material throughout.
149.05		END OF HOLE.

Hole No.: 90-21

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	4.66	4.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48199	4.66	7.00	2.34	-	-	2	-	-	.4	2	1	135	.1	28550	1	21	1	60
48200	7.00	10.00	3.00	-	-	1	-	-	.6	8	1	96	.1	30830	1	24	1	62
48201	10.00	13.00	3.00	-	-	1	-	-	.5	10	1	92	.1	37490	1	21	1	60
48202	13.00	16.00	3.00	-	-	9	-	-	.8	7	1	114	.9	32900	1	21	1	50
48203	16.00	19.00	3.00	-	-	2	-	-	1.3	82	1	95	.1	38210	1	19	1	61
48204	19.00	22.00	3.00	-	-	28	-	-	.4	4	1	124	.1	37750	1	21	1	72
48205	22.00	22.65	.65	-	-	19	-	-	.9	38	1	120	.1	38100	1	22	1	71
48206	22.65	23.50	.85	-	-	26	-	-	.5	4	1	127	.1	42350	1	40	1	121
48207	23.50	24.50	1.00	-	-	24	-	-	.7	5	1	89	1.0	46830	1	32	1	42
48208	24.50	25.50	1.00	-	-	27	-	-	.6	6	1	101	.1	41480	1	30	1	79
48209	25.50	26.50	1.00	-	-	405	-	-	1.2	11	1	82	.9	37090	1	281	1	420
48210	26.50	27.96	1.46	-	-	362	-	-	4.5	146	1	97	4.7	42990	1	1250	3	1613
48211	27.96	29.00	1.04	-	-	261	-	-	2.1	71	139	113	7.2	31910	1	515	4	1145
48212	29.00	30.00	1.00	-	-	373	-	-	1.4	27	239	122	4.5	29420	1	186	3	166
48213	30.00	31.00	1.00	-	-	432	-	-	2.6	37	286	99	7.3	39290	1	539	11	520
48214	31.00	32.00	1.00	-	-	209	-	-	1.7	20	141	110	4.0	24140	1	266	5	221
48215	32.00	33.00	1.00	2.79	.081	2800	-	-	4.2	21	312	103	8.5	28590	1	310	19	1021
48216	33.00	34.00	1.00	-	-	227	-	-	1.3	11	117	210	2.3	24400	1	84	2	50
48217	34.00	35.00	1.00	-	-	272	-	-	1.1	32	330	109	8.2	28760	1	127	4	264
48218	35.00	36.00	1.00	-	-	198	-	-	2.6	74	80	132	8.5	17840	2	403	5	1055
48219	36.00	37.00	1.00	-	-	925	-	-	2.0	27	284	109	6.9	29250	2	141	7	262
48220	37.00	39.00	2.00	-	-	259	-	-	.9	9	184	104	4.0	22750	1	42	4	297
48221	39.00	40.75	1.75	-	-	275	-	-	.4	13	169	118	1.3	26810	1	57	2	60
48222	40.75	41.57	.82	-	-	223	-	-	1.5	15	210	113	8.2	25460	1	119	5	1546
48223	41.57	42.06	.49	-	-	260	-	-	1.6	18	225	102	5.9	27020	5	144	9	400
48224	42.06	44.00	1.94	-	-	270	-	-	3.6	17	611	199	10.1	38140	34	190	17	85
48225	44.00	46.00	2.00	-	-	237	-	-	1.2	11	434	145	8.2	25610	14	107	7	189
48226	46.00	48.00	2.00	-	-	202	-	-	.9	13	240	115	2.1	44190	4	52	9	38
48227	48.00	50.00	2.00	-	-	194	-	-	1.0	12	185	109	4.3	36610	1	56	6	123
48228	50.00	52.00	2.00	-	-	112	-	-	1.1	12	137	111	2.8	29410	1	167	6	112
48229	52.00	54.00	2.00	-	-	320	-	-	1.5	11	210	90	2.6	29610	1	45	6	28
48230	54.00	55.75	1.75	-	-	246	-	-	1.3	13	206	105	2.1	31390	1	84	3	36
48231	55.75	57.75	2.00	-	-	468	-	-	2.3	18	264	105	7.5	32440	1	525	5	751
48232	57.75	60.00	2.25	-	-	248	-	-	7.7	316	168	118	10.2	29510	1	1793	76	1685
48233	60.00	63.00	3.00	-	-	428	-	-	1.5	39	145	82	2.2	50020	2	55	2	147
48234	63.00	66.00	3.00	-	-	765	-	-	1.6	48	55	80	.9	49740	2	62	1	78
48235	66.00	69.00	3.00	-	-	117	-	-	1.0	38	1	95	.1	38950	1	37	1	53
48236	69.00	72.00	3.00	-	-	249	-	-	1.3	22	289	130	4.0	40610	3	35	1	100
48237	72.00	75.00	3.00	-	-	124	-	-	1.0	35	187	111	4.5	39280	1	48	1	733
48238	75.00	76.58	1.58	-	-	218	-	-	3.2	99	162	108	10.1	46050	1	46	25	1853
48239	76.58	77.50	.92	-	-	166	-	-	2.8	65	82	148	2.0	39720	16	51	17	951
48240	77.50	80.00	2.50	-	-	103	-	-	1.0	15	78	118	.2	35550	1	19	2	202
48241	80.00	83.00	3.00	-	-	102	-	-	1.3	21	72	102	.3	42940	1	247	2	338
48242	83.00	86.00	3.00	-	-	116	-	-	1.0	11	192	104	3.5	37910	1	91	2	147
48243	86.00	89.00	3.00	-	-	168	-	-	1.2	14	170	84	3.9	37620	1	223	1	414
48244	89.00	92.00	3.00	-	-	191	-	-	1.1	13	117	167	.6	28590	1	42	1	175
48245	92.00	92.91	.91	-	-	298	-	-	2.4	35	223	160	5.0	41650	1	508	10	808
48246	92.91	95.00	2.09	-	-	174	-	-	1.6	29	101	148	.7	43240	1	232	19	320
48247	95.00	96.50	1.50	-	-	119	-	-	1.8	17	56	107	.1	35330	1	207	6	101

Hole No.: 90-21

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
48248	96.50	97.55	1.05	-	-	112	-	-	1.1	6	95	192	1.3	34700	1	605	105	85
48249	97.55	99.00	1.45	-	-	179	-	-	1.7	16	123	164	1.3	38730	1	417	37	98
48250	99.00	102.00	3.00	-	-	156	-	-	.7	10	167	202	1.1	32210	1	40	3	52
48251	102.00	105.00	3.00	-	-	200	-	-	1.2	16	265	146	6.0	31390	1	47	6	114
48252	105.00	106.82	1.82	-	-	257	-	-	1.1	20	324	160	3.9	29750	1	36	7	79
48253	106.82	108.82	2.00	-	-	163	-	-	.8	15	125	104	1.2	23790	1	34	3	36
48254	108.82	110.00	1.18	-	-	213	-	-	1.0	18	197	88	1.1	27570	1	53	4	74
48255	110.00	112.00	2.00	-	-	219	-	-	.8	14	242	104	1.8	28150	1	41	3	47
48256	112.00	114.00	2.00	-	-	222	-	-	.9	19	201	125	3.5	27290	1	97	6	301
48257	114.00	116.00	2.00	-	-	159	-	-	.7	11	198	122	2.6	27690	1	40	5	106
48258	116.00	118.00	2.00	-	-	197	-	-	1.2	12	328	128	3.3	32190	1	55	9	200
48259	118.00	120.00	2.00	-	-	129	-	-	1.0	7	193	82	2.3	24710	5	72	16	80
48260	120.00	122.00	2.00	-	-	140	-	-	.9	9	95	105	2.1	31740	7	177	57	99
48261	122.00	124.00	2.00	-	-	148	-	-	1.3	14	116	286	1.6	33360	5	34	10	60
48262	124.00	126.00	2.00	-	-	100	-	-	.4	9	102	191	.1	37290	1	29	1	53
48263	126.00	128.00	2.00	-	-	104	-	-	.3	6	17	178	.1	46530	1	28	1	64
48264	128.00	130.00	2.00	-	-	103	-	-	.5	6	59	130	.1	40030	1	34	5	74
48265	130.00	132.00	2.00	-	-	213	-	-	.3	11	92	246	.1	40980	1	27	10	29
48266	132.00	134.00	2.00	-	-	202	-	-	.1	11	142	101	1.8	34220	1	37	6	26
48267	134.00	135.60	1.60	-	-	202	-	-	.7	10	354	101	4.9	49210	1	41	22	15
48268	135.60	136.90	1.30	-	-	117	-	-	.7	6	144	108	2.1	34180	1	43	6	37
48269	136.90	138.00	1.10	-	-	180	-	-	.6	6	154	161	2.1	42300	1	41	9	25
48270	138.00	139.00	1.00	-	-	182	-	-	1.0	9	183	136	3.3	39530	1	82	9	83
48271	139.00	140.00	1.00	-	-	215	-	-	1.6	15	159	146	5.1	47010	1	523	13	628
48272	140.00	141.00	1.00	-	-	308	-	-	6.1	47	121	101	17.3	49410	1	2420	20	3374
48273	141.00	142.00	1.00	-	-	194	-	-	.9	9	181	184	1.5	45190	1	111	9	75
48274	142.00	144.00	2.00	-	-	157	-	-	1.6	182	215	185	2.6	35490	1	76	18	160
48275	144.00	146.00	2.00	-	-	502	-	-	2.7	12	379	315	4.7	39690	1	98	12	173
48276	146.00	149.05	3.05	-	-	270	-	-	3.3	19	484	265	7.1	29870	2	82	18	306

COMP: COASTAL MOUNTAIN
PROJ: SIB
ATTN: M. REBAGLIATTI/R. HASLINGER

MIN-EN LABS — ICP REPORT

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

90-21

FILE NO: OS-0584-RJ1+2
DATE: 90/10/05
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48199 B	.4	16080	1	10	135	1.3	2	24790	.1	11	2	28550	2380	12	10280	1279	1	190	2	1420	21	1	19	1	1	34.3	60	1	1	1	8	2
48200 B	.6	16810	1	7	96	1.3	2	27050	.1	12	8	30830	1980	13	11630	1346	1	160	1	1420	24	1	22	1	1	36.8	62	1	2	1	1	1
48201 B	.5	18050	1	6	92	1.3	3	21020	.1	13	10	37490	2240	14	16140	1732	1	150	1	1480	21	1	9	1	1	45.0	60	1	2	1	1	1
48202 B	.8	13240	1	5	114	1.0	3	24720	.9	12	7	32900	3320	10	14290	1668	1	190	1	1450	21	1	10	1	1	36.1	50	1	1	1	1	9
48203 B	1.3	13950	1	5	95	1.3	3	26980	.1	13	82	38210	2990	11	16710	2337	1	130	1	1500	19	1	12	1	1	37.7	61	1	2	1	1	2
48204 B	.4	16780	1	4	124	1.3	3	20600	.1	13	4	37750	3830	13	17060	2259	1	200	2	1590	21	1	7	1	1	48.2	72	1	1	1	1	28
48205 B	.9	17380	1	4	120	1.3	3	21030	.1	15	38	38100	3740	14	14860	2071	1	250	1	1660	22	1	11	1	1	54.7	71	1	1	1	1	19
48206 B	.5	12080	1	5	127	1.6	3	23480	.1	19	4	42350	4180	7	12110	2232	1	200	1	1590	40	1	14	1	1	43.8	121	1	2	1	1	26
48207 B	.7	14570	1	5	89	1.5	3	41460	1.0	13	5	46830	3570	11	23690	4898	1	150	1	1520	32	1	28	1	1	54.8	42	1	2	1	1	24
48208 B	.6	16510	1	4	101	.9	3	25700	.1	16	6	41480	3270	14	14080	2974	1	160	1	1670	30	1	27	1	1	48.6	79	1	2	1	1	27
48209 B	1.2	15450	1	3	82	1.3	3	8980	.9	12	11	37090	3330	12	9340	1015	1	190	1	1680	281	1	11	1	1	49.2	420	1	1	1	1	405
48210 B	4.5	14560	1	4	97	1.5	3	8600	4.7	15	146	42990	3200	11	8760	899	1	310	2	1620	1250	3	15	1	1	67.5	1613	1	1	1	2	362
48211 B	2.1	6330	139	4	113	.9	2	3780	7.2	11	71	31910	4000	1	1280	144	1	120	1	1490	515	4	8	1	1	20.9	1145	1	1	1	2	261
48212 B	1.4	5360	239	5	122	1.4	3	3770	4.5	12	27	29420	3550	1	600	89	1	170	1	1550	186	3	11	1	1	24.5	166	1	1	1	5	373
48213 B	2.6	4380	286	3	99	1.1	1	2920	7.3	11	37	39290	3260	1	390	30	1	100	1	1320	539	11	8	1	1	17.9	520	1	1	1	3	432
48214 B	1.7	4480	141	2	110	1.0	2	4190	4.0	16	20	24140	3450	1	320	34	1	120	1	1840	266	5	8	1	1	23.0	221	1	1	1	11	209
48215 B	4.2	3930	312	3	103	.5	2	6730	8.5	9	21	28590	3300	1	320	154	1	130	1	1510	310	19	15	1	1	15.9	1021	1	1	1	11	2800
48216 B	1.3	5350	117	3	210	.9	2	3440	2.3	11	11	24400	4030	1	610	85	1	200	1	1500	84	2	9	1	1	24.1	50	1	1	1	29	227
48217 B	1.1	4490	330	3	109	1.2	2	3130	8.2	10	32	28760	3520	1	670	119	1	110	1	1300	127	4	9	1	1	21.3	264	1	1	1	11	272
48218 B	2.6	4120	80	2	132	.7	1	4530	8.5	7	74	17840	3400	1	310	69	2	70	1	1670	403	5	11	1	1	14.1	1055	1	1	1	46	198
48219 B	2.0	3550	284	2	109	.4	2	3430	6.9	9	27	29250	2790	1	270	50	2	80	1	1310	141	7	10	1	1	13.5	262	1	1	1	28	925
48220 B	.9	3960	184	3	104	.5	2	5790	4.0	8	9	22750	3060	1	300	111	1	90	1	1370	42	4	12	1	1	21.7	297	1	1	1	21	259
48221 B	.4	5260	169	4	118	.7	2	4300	1.3	8	13	26810	3770	1	490	90	1	90	1	1640	57	2	11	1	1	20.3	60	1	1	1	29	275
48222 B	1.5	4840	210	3	113	.8	2	7670	8.2	8	15	25460	3580	1	350	201	1	60	1	1440	119	5	12	1	1	15.1	1546	1	1	1	25	223
48223 B	1.6	5420	225	4	102	.6	2	2410	5.9	12	18	27020	3760	1	340	51	5	50	1	1090	144	9	8	1	1	19.7	400	1	1	1	54	260
48224 B	3.6	2010	611	3	199	1.0	1	1780	10.1	25	17	38140	1790	1	110	49	34	50	3	800	190	17	6	1	1	8.9	85	1	1	1	25	270
48225 B	1.2	3120	434	4	145	.7	2	2020	8.2	14	11	25610	2680	1	180	59	14	60	1	960	107	7	6	1	1	11.2	189	1	1	1	46	237
48226 B	.9	3820	240	4	115	1.3	1	4440	2.1	16	13	44190	2960	1	270	59	4	60	1	2040	52	9	12	1	1	13.0	38	1	1	1	4	202
48227 B	1.0	3870	185	3	109	1.3	2	4450	4.3	15	12	36610	3120	1	260	34	1	90	1	1990	56	6	13	1	1	13.2	123	2	1	1	8	194
48228 B	1.1	3820	137	3	111	.4	2	4070	2.8	13	12	29410	3290	1	330	29	1	70	1	1760	167	6	12	1	1	13.7	112	1	1	1	15	112
48229 B	1.5	2990	210	12	90	.6	1	3440	2.6	14	11	29610	2650	1	210	12	1	60	1	1730	45	6	9	1	1	12.0	28	1	1	1	10	320
48230 B	1.3	4060	206	9	105	.8	2	3950	2.1	12	13	31390	3400	1	270	12	1	70	1	1950	84	3	9	1	1	17.8	36	1	1	1	7	246
48231 B	2.3	3700	264	7	105	.7	2	3530	7.5	12	18	32440	2950	1	900	109	1	50	1	1750	525	5	9	1	1	18.2	751	1	1	1	21	468
48232 B	7.7	4600	168	7	118	.8	1	7130	10.2	9	316	29510	3760	1	2340	330	1	50	1	1980	1793	76	17	1	1	20.0	1685	1	1	1	22	248
48233 B	1.5	7780	145	9	82	1.0	2	8120	2.2	18	39	50020	4890	3	6650	1086	2	590	1	2120	55	2	13	1	1	32.6	147	1	2	1	1	428
48234 B	1.6	10180	55	7	80	.8	2	12200	.9	18	48	49740	4080	7	8630	1847	2	480	1	2220	62	1	15	1	1	52.7	78	1	2	1	1	765
48235 B	1.0	9480	1	5	95	.6	1	11460	.1	13	38	38950	3740	6	8420	1822	1	100	1	1570	37	1	10	1	1	54.1	53	1	2	1	1	117
48236 B	1.3	8210	289	10	130	1.2	1	8790	4.0	14	22	40610	5270	1	3260	750	3	610	1	2020	35	1	25	1	1	26.7	100	1	2	1	3	249
48237 B	1.0	5660	187	8	111	.6	1	10030	4.5	15	35	39280	4260	1	5220	949	1	50	1	1860	48	1	27	1	1	28.6	733	1	2	1	6	124
48238 B	3.2	5950	162	11	108	1.0	2	13170	10.1	17	99	46050	4180	1	5410	1078	1	40	1	1830	46	25	38	1	1	24.4	1853	1	2	1	1	218
48239 B	2.8	5670	82	10	148	1.2	1	17330	2.0	20	65	39720	4300	1	6220	1055	16	40	1	1780	51	17	43	1	1	25.5	951	1	2	1	5	166
48240 B	1.0	5880	78	9	118	.7	1	11010	.2	11	15	35550	4390	1	4350	608	1	40	1	1660	19	2	29	1	1	22.0	202	1	1	1	9	103
48241 B	1.3	6400	72	9	102	1.1	1	8510	.3	16	21	42940	4770	1	6150	915	1	150	1	1340	247	2	24	1	1	24.4	338	1	1	1	1	102
48242 B	1.0	4590	192	7	104	.7	1	6860	3.5	10	11	37910	3380	1	4580	565	1	50	1	1460	91	2	33	1	1	19.4	147	1	2	1	8	116
48243 B	1.2	4850	170	6	84	.6	1	6150	3.9	11	14	37620	3440	1	3900	470	1	50	1	1540	223	1	19	1	1	20.1	414	1	1	1	10	168
48244 B	1.1	4060	117	5	167	.5	1	9570	.6	12	13	28590	3090	1	3000	389	1	110	1	2210	42	1	27	1	1	10.8	175	1	1	1	7	191
48245 B	2.4	6440	223	14	160	1.0	2	7360	5.0	16	35	41650	4270	1	3970	598	1	90	1	2360	508	10	19	1	1	15.9	808	1	1	1	1	298
48246 B	1.6	5180	101	11	148	.7	1	12860	.7	14	29	43240	3520	1	9650	1270	1	130	1	1690	232	19	25	1	1	21.8	320	1	2	1	5	174
48247 B	1.8	6880	56	13	107	.9	2	6470	.1	11	17	35330	3740	3	11170	1154	1	110	1	1610	207	6	14	1	1	33.5	101	1	1	1	5	119
48248 B	1.1	6130	95	14	192	.8	1	11770	1.3	10	6	34700	3690	1	9130	1146	1	60	1	1460	605	105	41	1	1	21.7	85	1	2	1	6	112
48249 B	1.7	5380	123	22	164	.6	1	11990	1.3	12	16	38730	3500	1	8490	1030	1	70	1	1460	417	37	21	1	1	21.4	98	1	1	1	14	179
48250 B	.7	4810	167	7	202	.5	1	6010	1.1	10	10	32210	2880	2	5450	613	1	100	1	1530	40	3	17	1	1	23.8	52	1	1	1	32	156
48251 B	1.2	3870	265	7	146	.4	1	6900	6.0	11	16	31390	3020	1	3790	463	1	160	1	1520	47	6	24	1	1	16.3	114	1	1	1	39	200
48252 B	1.1	3290	324	4	160	.4	1	5270	3.9	10	20	29750	2660	1	2230	272	1	60	1	1370	36	7	16	1	1	12.1	79	1	1	1	28	257
48253 B	.8	3170	125	4	104	.7	1	4670	1.2	8	15	23790	2600	1	2460	248	1	80	1	1420	34	3	15	1	1	13.8	36	1	1	1	30	163
48254 B	1.0	2680	197	3	88	.2	1	4510	1.1	9	18	27570	2060	1	1550	198	1	160	1	1420	53	4	12	1	1	12.0	74	1	1	1	32	213
48255 B	.8	2690	242	3	104	.2	1	3760	1.8	9	14	28150	2140	1	930	114	1	90	1	1360	41	3	8	1	1	11.7	47	1	1	1	36	219
48256 B	.9	2490	201	3	125	.3	1	3180	3.5	10	19	27290	2250	1	310	36	1	80	1	1420	97	6	8	1	1	9.8	301	1	1	1	56	222
48257 B	.7	1900	198	2	122	.2	2	2700	2.6	10	11	27690	1810	1	250	30	1	60	1	1170	40	5	8	1	1	6.8	106	1	1	1	53	159
48258 B	1.2	1830	328	3	128	.7	1	2480	3.3	10	12	32190	1810	1	210	37	1	50	1	1190	55	9	8	1	1	6.1	200	1	1	1	62	197

COMP: COASTAL MOUNTAIN
PROJ: SIB
ATTN: M. REBAGLIATTI/R. HASLINGER

MIN-EN LABS — ICP REPORT

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

90-21

FILE NO: 0S-0584-RJ3
DATE: 90/10/05
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48259 B	1.0	3270	193	13	82	.8	2	8330	2.3	10	7	24710	2630	1	3110	422	5	80	1	1120	72	16	11	1	1	8.7	80	1	1	1	37	129
48260 B	.9	4780	95	15	105	1.3	2	10980	2.1	10	9	31740	3380	1	6730	922	7	40	1	1230	177	57	20	1	1	14.2	99	1	1	1	1	140
48261 B	1.3	4560	116	9	286	1.0	2	9290	1.6	13	14	33360	2960	1	6900	929	5	160	1	1240	34	10	27	1	1	22.5	60	1	1	1	3	148
48262 B	.4	9970	102	6	191	1.3	3	5830	.1	14	9	37290	2360	7	7710	655	1	170	1	1490	29	1	10	1	1	43.6	53	1	1	1	1	100
48263 B	.3	10300	17	7	178	1.9	3	9510	.1	15	6	46530	3050	8	10470	981	1	120	1	1570	28	1	15	1	1	36.4	64	1	1	1	1	104
48264 B	.5	6630	59	7	130	1.0	2	5670	.1	13	6	40030	3070	3	7510	535	1	150	1	1450	34	5	17	1	1	23.6	74	1	1	1	1	103
48265 B	.3	5250	92	9	246	.9	2	4880	.1	15	11	40980	3530	1	2910	258	1	120	1	1490	27	10	15	1	1	17.7	29	1	1	1	1	213
48266 B	.1	3260	142	5	101	.9	2	4850	1.8	12	11	34220	2710	1	1940	204	1	130	1	1760	37	6	15	1	1	14.5	26	1	1	1	1	202
48267 B	.7	2800	354	6	101	1.1	2	4430	4.9	17	10	49210	2250	1	470	45	1	180	1	1980	41	22	15	1	1	13.9	15	1	1	1	1	202
48268 B	.7	3200	144	4	108	.8	2	4390	2.1	12	6	34180	2470	1	600	67	1	170	1	1830	43	6	13	1	1	13.9	37	1	1	1	3	117
48269 B	.6	2910	154	4	161	.7	1	4590	2.1	14	6	42300	2400	1	400	36	1	240	1	1970	41	9	14	1	1	15.6	25	1	1	1	2	180
48270 B	1.0	3400	183	5	136	.9	1	5260	3.3	12	9	39530	2500	1	550	57	1	210	1	2000	82	9	16	1	1	17.5	83	1	1	1	10	182
48271 B	1.6	4050	159	6	146	1.2	2	5070	5.1	14	15	47010	2920	1	520	48	1	150	1	2130	523	13	15	1	1	17.4	628	1	2	1	3	215
48272 B	6.1	4120	121	7	101	1.4	3	6210	17.3	16	47	49410	2830	1	2280	243	1	180	1	2260	2420	20	20	1	1	21.7	3374	1	1	1	1	308
48273 B	.9	3780	181	6	184	.4	2	8550	1.5	14	9	45190	2790	1	2150	289	1	250	1	2130	111	9	24	1	1	19.9	75	1	2	1	1	194
48274 B	1.6	5180	215	8	185	1.3	2	11310	2.6	14	182	35490	3470	1	4280	360	1	170	6	1800	76	18	58	1	1	19.6	160	1	1	5	3	157
48275 B	2.7	6770	379	7	315	.9	3	7120	4.7	13	12	39690	3460	3	6120	507	1	160	1	1650	98	12	21	1	1	32.5	173	1	1	1	7	502
48276 B	3.3	4670	484	6	265	.3	2	10660	7.1	11	19	29870	3360	1	2960	501	2	170	1	1560	82	18	30	1	1	15.5	306	1	1	1	36	270

MIN
• EN
LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
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FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

90-21

Assay Certificate

OS-0584-RA1

Company: COASTAL MOUNTAIN
Project: SIB
Attn: M. REBAGLIATTI/R. HASLINGER

Date: OCT-05-90
Copy 1. COASTAL MOUNTAIN, VANCOUVER, B.C.
2. COASTAL MOUNTAIN, SMITHERS, B.C.

We hereby certify the following Assay of 1 CORE samples submitted SEP-26-90 by GUY LEPAGE.

Sample Number	AU g/tonne	AU oz/ton
48215B	2.79	.081

Certified by

MIN-EN LABORATORIES

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-22

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 104B/9	CLAIM #	: SIB 5		
LOCAL GRID	: 10428.75 N / 10142.40 E	GLOBAL GRID	: 14452.83 N / 18845.23 E	ELEVATION	: 1200.13 metres
LENGTH	: 106.07 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 300.0 degrees
OVERBURDEN	: 1.52 m	CASING	: 1.52 metres.	ASSAYING BY	: Min-En Labs
LOGGED BY	: Guy LePage	DRILLED BY	: J.T. Thomas	CORE LOCATION	: 101+00 N, 98+00 E
DATE LOGGED	: 1990/09/15 Y/M/D	DATE DRILLED	: 1990/09/14 Y/M/D	SAMPLE NO. SERIES	: 48142-48198

ACID TESTS

Depth	Dip	Azimuth
103.02	-43.5	300.0

SUMMARY LOG 90-22

From(m)	To(m)	Field Name (Legend)
0.00	1.52	CASING
1.52	13.89	LAPILLI FRAGMENTAL (UNIT 11)
13.89	106.07	LAPILLI FRAGMENTAL (UNIT 11)
106.07		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-22

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
102.00	105.00	3.00	0.014			

From(m)	To(m)	Description
0.00	1.52	CASING
1.52	13.89	LAPILLI FRAGMENTAL (UNIT 11) Composition Groundmass: Fine grained, aphanitic, bluish grey to grey, plagioclase/quartz rich(30 to 50%) Clasts: Variable from 1 to 2 mm up to 30 cm(average 20 to 30 mm in width), angular. Consist of porphyritic phase of euhedral to subhedral sericitized plagioclase phenocrysts(30% of the clasts) set in a fine grained, aphanitic, plagioclase rich, mid to light grey groundmass. Structure Jointing: 20 and 60 degrees to core axis. Annealed with calcite+-iron carbonate+quartz average 3 to 4 mm in width. Alteration Sericite: Weak to Moderate. Sericitization of plagioclase phenocrysts. K-feldspar: Difficult to tell primary from secondary. Clasts that did stain contained minor(2 to 3%) k-feldspar, probably primary. Carbonitized: Weak. Up to 1%, mostly veins. Mineralization Pyrite: 3 to 4%. Fine grained disseminations associated with plagioclase porphyry clasts. Also as blebs(overprinting siliceous groundmass) on margins of clasts and in veins+-iron carbonate+-chlorite+-quartz in veins at 60 to 70 degrees to core axis with 2 to 6 mm width (average 3 mm). Frequency 10 to 15 per metre. Galena: 1 to 2%. With 1 to 2 % sphalerite in iron carbonate quartz veins averaging 2 to 4 mm width at 60 to 65 degrees to core axis towards 13.30 metres. Veins Quartz Veining. Mostly at steep degrees to core axis. Crosscut majority of unit, range from 0.5 to 9 mm (average 3 mm). +-iron carbonate.
13.89	106.07	LAPILLI FRAGMENTAL (UNIT 11) Composition Groundmass: 40 to 50%. Mid to light grey, aphanitic, plagioclase rich. Clasts: Well rounded to subrounded, range from 2 to 50 mm(average 25 to 30 mm wide). Consist of euhedral to subhedral weakly to strrongly

From(m) To(m) ----------Description----------

sericitized plagioclase phenocrysts averaging 1 to 2 mm in length set in a pink grey to pale pink k-feldspar to plagioclase/k-feldspar rich groundmass.

Structure

Jointing: 60 degrees to core axis. To a lesser extent 20 degrees to core axis.
Bedding: 55 to 60 degrees to core axis. Minor well tuffaceous interbeds up to 5 to 10 cm in length. Well bedded with beds from 2 to 8 mm(average 3 mm)
Shearing: 50 degrees to core axis. Local, annealed with chlorite-sericite-iron carbonate.

Alteration

K-feldspar: From 68.00 to 106.07 m. Decreased in potassic stockwork alteration with occasional zones of intense alteration(elongate. 81.50 to 83.00 m., 95.80 to 102.00 m.).K-feldspar veins and stockwork parallel shearing at 60 degrees to core axis. K-feldspar stockwork encloses selvedges of flattened oriented clasts. Clasts show drop in k-feldspar content.

Mineralization

Pyrite: 2 to 3%. Fine grained disseminated in clasts and felsic rich groundmass. Clusters on the margins of clasts. Veins from varible to 60 to 80 degrees to core axis averaging 2 to 3 mm in width(range from 1 to 4 mm). Fine disseminations show preferred orientation of 50 to 60 degrees to core axis.
Sphalerite: 2 to 3%. From 13.89 to 20.73 metres. Together with galena(1 to 3%) and pyrite(2 to 3%) as flattened and oriented veins from 3 to 10 mm wide(average 3 mm) at 60 degrees to core axis and to a lesser extent 20 degrees to core axis. Average 15 per metre. Rest of unit averages 2 to 3 veins per metre.

Veins and Sub-Intervals

Quartz Veining. Core axis angle 20 degrees. +-chlorite+-iron carbonate.
<13.89>-<44.00>: Clasts appear to be stronly k-feldspar flooded(60 to 70%) with a light to pale pink grey color. Groundmass appears to be mostly plagioclase rich with little potassic enrichment.
<44.00>-<63.20>: Similar to 13.89 to 44.00 m. Decreased fracture controlled mineralization. Increased k-feldspar flooding interstitial to volcanic fragments and decreased flooding of fragments. Pyrite(2 to 3%) as fine grained disseminated specs in fragments and margins of fragments and veins at 60 degrees to core axis average 3mm (5 to 10 per metre). Trace sphalerite

From(m) To(m) ----------Description----------

and galena in quartz veins at 60 degrees to core axis.

<63.20>-<68.80>: Significant increase in stockwork style potassic alteration interstitial to the plagioclase porphyry fragments which seem to be less flooded(5 to 10%) than from 44.00 to 63.20 m. Jointing oriented at 55 to 60 degrees to core axis and 20 degrees to core axis which parallel numerous quartz, carbonate, +- sulphide veins.

<68.80>-<106.07>: Quartz-carbonate Veining. Core axis angle 60 to 70 degrees. Numerous veins parallel to shearing +-chlorite and sericite.

<68.80>-<92.10>: Pyrite (2 to 3%) as fine grained disseminations throughout , as blebs , as clusters associated with margins of volcanic fragments, in veins 4 to 5 mm wide as selvedges within quartz-iron carbonate+-chlorite or as massive pyrite oriented between 55 to 70 degrees to core axis.

<92.10>-<106.07>: Increased stockwork and localized k-feldspar flooding(30 to 40%). Shearing at 60 to 90 degrees to core axis defined by chert,potassic sericite and pyrite veins(average 4 to 5mm wide), frequency 15 to 20 per metre. Clasts flattened an oriented parallel to shearing. Pyrite(2 to 3%) as flattend and oriented grains in veins(3 to 4 mm wide) parallel to shearing.

106.07 END OF HOLE.

Hole No.: 90-22

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	1.52	1.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48142	1.52	3.00	1.48	-	-	1	-	-	.5	3	1	75	.1	28760	1	29	1	41
48143	3.00	5.00	2.00	-	-	3	-	-	.5	4	1	92	.1	27030	1	25	1	50
48144	5.00	7.00	2.00	-	-	2	-	-	.2	3	1	110	.1	35620	2	21	1	68
48145	7.00	9.00	2.00	-	-	4	-	-	.5	4	1	94	.1	36130	1	28	1	57
48146	9.00	10.50	1.50	-	-	1	-	-	.4	3	1	101	.1	33840	1	20	1	48
48147	10.50	11.50	1.00	-	-	2	-	-	.3	3	1	100	.1	47110	1	23	1	72
48148	11.50	12.50	1.00	-	-	4	-	-	.2	3	1	108	.1	48290	1	15	1	68
48149	12.50	13.50	1.00	-	-	2	-	-	.9	4	1	97	.1	36060	1	661	1	126
48150	13.50	14.50	1.00	-	-	1	-	-	1.0	4	1	86	.1	29250	1	278	1	55
48151	14.50	15.50	1.00	-	-	3	-	-	.7	6	11	99	.1	30040	3	58	1	36
48152	15.50	16.50	1.00	-	-	50	-	-	.9	8	1	72	.1	59840	1	33	1	107
48153	16.50	17.40	.90	-	-	12	-	-	1.5	4	1	83	.1	54350	1	1255	1	81
48154	17.40	18.95	1.55	-	-	2	-	-	.7	3	1	110	.1	40070	1	46	1	79
48155	18.95	20.00	1.05	-	-	57	-	-	3.2	27	6	116	.1	47860	1	4849	2	73
48156	20.00	21.16	1.16	-	-	209	-	-	4.2	449	30	136	78.7	46400	16	2281	2	11793
48157	21.16	22.12	.96	-	-	10	-	-	.5	67	1	130	.1	25320	1	403	1	163
48158	22.12	23.00	.88	-	-	2	-	-	.5	8	1	98	.1	34970	1	905	1	307
48159	23.00	24.81	1.81	-	-	1	-	-	.4	8	1	290	.1	36030	1	83	1	319
48160	24.81	25.60	.79	-	-	1	-	-	.7	9	1	149	.1	34380	1	40	1	101
48161	25.60	26.50	.90	-	-	5	-	-	.8	5	17	202	.4	29800	1	54	1	167
48162	26.50	27.65	1.15	-	-	54	-	-	1.0	13	60	140	.1	44140	2	45	1	178
48163	27.65	28.50	.85	-	-	60	-	-	3.3	110	45	152	19.9	25830	5	2111	4	3623
48164	28.50	29.50	1.00	-	-	59	-	-	1.2	11	57	148	.1	23210	5	136	2	169
48165	29.50	30.34	.84	-	-	113	-	-	1.5	16	107	134	.1	36930	1	95	4	145
48166	30.34	31.67	1.33	-	-	194	-	-	2.5	72	91	117	.6	27630	2	2001	5	382
48167	31.67	34.00	2.33	-	-	5	-	-	1.2	11	6	145	.1	22870	3	87	1	76
48168	34.00	37.00	3.00	-	-	37	-	-	1.6	33	31	185	.1	25170	7	148	1	130
48169	37.00	38.43	1.43	-	-	71	-	-	1.3	26	52	150	.1	29070	4	45	1	36
48170	38.43	39.56	1.13	-	-	244	-	-	3.1	13	138	144	2.1	28110	5	852	6	550
48171	39.56	42.15	2.59	-	-	21	-	-	1.6	10	59	165	.4	25130	2	269	2	275
48172	42.15	44.20	2.05	-	-	42	-	-	.7	7	25	128	.1	32860	7	43	3	58
48173	44.20	47.00	2.80	-	-	27	-	-	.4	16	21	100	.1	34200	1	24	1	82
48174	47.00	50.00	3.00	-	-	40	-	-	.8	8	24	107	.1	37170	2	39	2	62
48175	50.00	53.00	3.00	-	-	41	-	-	.9	6	10	166	.1	31440	2	86	1	52
48176	53.00	54.23	1.23	-	-	83	-	-	1.5	16	27	146	.1	38910	4	133	2	443
48177	54.23	55.47	1.24	-	-	24	-	-	1.0	36	6	142	.1	35430	1	81	1	233
48178	55.47	56.94	1.47	-	-	16	-	-	.9	36	1	154	.1	39420	1	56	1	76
48179	56.94	58.04	1.10	-	-	18	-	-	.6	7	1	179	.1	24010	1	28	1	44
48180	58.04	60.00	1.96	-	-	21	-	-	.6	4	1	184	.1	25140	1	17	1	35
48181	60.00	63.30	3.30	-	-	16	-	-	.7	17	1	166	.1	39670	3	38	1	70
48182	63.30	64.70	1.40	-	-	140	-	-	.8	62	55	391	1.5	22830	1	187	1	250
48183	64.70	66.45	1.75	-	-	188	-	-	.8	10	61	166	2.8	28850	1	150	1	551
48184	66.45	67.65	1.20	-	-	330	-	-	1.7	84	46	393	10.0	30740	1	421	4	1659
48185	67.65	69.00	1.35	-	-	141	-	-	1.0	10	54	153	2.8	26120	5	106	2	174
48186	69.00	72.00	3.00	-	-	102	-	-	.9	22	101	142	.1	39520	3	66	2	109
48187	72.00	75.00	3.00	-	-	35	-	-	.6	5	30	148	.1	31540	1	38	1	48
48188	75.00	78.00	3.00	-	-	62	-	-	1.1	8	69	125	.3	36750	2	37	1	35
48189	78.00	81.00	3.00	-	-	86	-	-	.8	6	78	114	2.3	43230	1	36	1	37
48190	81.00	84.00	3.00	-	-	68	-	-	.5	22	80	157	1.3	40060	1	31	1	56

Hole No.: 90-22

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
48191	84.00	87.00	3.00	-	-	124	-	-	.7	48	106	172	.1	47090	1	30	1	95
48192	87.00	90.00	3.00	-	-	122	-	-	.8	11	102	106	1.3	36510	1	32	1	115
48193	90.00	93.00	3.00	-	-	138	-	-	.8	12	59	141	.1	31630	1	24	1	82
48194	93.00	96.00	3.00	-	-	57	-	-	1.0	10	5	169	.1	35020	5	32	1	58
48195	96.00	99.00	3.00	-	-	30	-	-	.9	13	7	128	.1	33890	4	34	2	72
48196	99.00	102.00	3.00	-	-	54	-	-	.9	11	1	129	.1	43010	1	39	1	69
48197	102.00	105.00	3.00	-	-	488	-	-	.7	6	122	115	.1	39180	1	40	3	49
48198	105.00	106.07	1.07	-	-	41	-	-	.9	4	22	103	.1	29850	1	69	1	74

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: M. REBAGLIATTI/ R. HASLINGER

MIN-EN LABS — ICP REPORT

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

90-22

FILE NO: OS-0582-RJ1+2
DATE: 90/10/05
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48142 B	.5	12930	1	9	75	.5	1	11000	.1	9	3	28760	2230	9	14850	1256	1	240	1	1660	29	1	15	1	1	33.0	41	1	2	1	11	1
48143 B	.5	12380	1	6	92	.7	2	6630	.1	10	4	27030	2550	7	11550	1059	1	260	1	1680	25	1	9	1	1	31.4	50	1	1	1	12	3
48144 B	.2	13460	1	6	110	1.5	2	11630	.1	9	3	35620	2470	7	13280	1890	2	220	1	1650	21	1	10	1	1	35.4	68	1	2	1	5	2
48145 B	.5	13420	1	6	94	1.2	2	15750	.1	10	4	36130	2680	7	14130	2175	1	230	1	1620	28	1	11	1	1	35.1	57	1	1	1	3	4
48146 B	.4	16050	1	5	101	1.3	2	15890	.1	9	3	33840	2930	9	19720	2158	1	250	1	1580	20	1	16	1	1	37.9	48	1	1	1	11	1
48147 B	.3	23240	1	6	100	1.4	1	14770	.1	10	3	47110	2940	16	25990	2337	1	220	1	1550	23	1	11	1	1	58.4	72	1	2	1	1	2
48148 B	.2	23890	1	6	108	1.3	3	10390	.1	9	3	48290	2670	16	25610	1958	1	240	1	1680	15	1	12	1	1	58.8	68	1	2	1	1	4
48149 B	.9	17010	1	4	97	1.3	3	12390	.1	11	4	36060	3300	11	18790	1791	1	250	1	1660	661	1	11	1	1	43.3	126	1	1	1	4	2
48150 B	1.0	12860	1	4	86	.5	1	15420	.1	10	4	29250	2900	7	16540	1745	1	250	1	1360	278	1	13	1	1	35.1	55	1	1	1	8	1
48151 B	.7	11370	11	3	99	.4	1	8720	.1	14	6	30040	3340	6	10390	997	3	220	1	1500	58	1	11	1	1	33.2	36	1	1	1	8	3
48152 B	.9	31510	1	6	72	1.5	2	20370	.1	13	8	59840	2090	31	47070	3390	1	150	1	1400	33	1	31	1	1	102.2	107	1	4	1	1	50
48153 B	1.5	27860	1	6	83	1.3	3	15440	.1	11	4	54350	2560	23	33250	2598	1	220	1	1680	1255	1	16	1	1	85.8	81	1	2	1	1	12
48154 B	.7	18860	1	4	110	1.1	3	17750	.1	8	3	40070	3120	13	22380	2479	1	250	1	1640	46	1	29	1	1	56.3	79	1	2	1	7	2
48155 B	3.2	18250	6	5	116	1.6	2	8980	.1	12	27	47860	2020	15	19290	1452	1	170	1	1550	4849	2	19	1	1	57.9	73	1	1	1	1	57
48156 B	4.2	17960	30	6	136	1.4	2	16420	78.7	16	449	46400	2510	15	22490	2254	16	260	1	1570	2281	2	54	1	1	58.9	11793	1	2	1	6	209
48157 B	.5	10610	1	3	130	.8	1	9190	.1	8	67	25320	3230	6	10280	1141	1	310	2	1370	403	1	35	1	1	31.2	163	1	1	1	24	10
48158 B	.5	15560	1	5	98	1.1	2	8770	.1	8	8	34970	3240	11	14240	1445	1	230	1	1550	905	1	13	1	1	34.9	307	1	2	1	1	2
48159 B	.4	17010	1	4	290	1.3	2	9420	.1	11	8	36030	3080	13	15380	1627	1	200	1	1530	83	1	14	1	1	37.1	319	1	2	1	3	1
48160 B	.7	15070	1	4	149	1.2	2	11580	.1	10	9	34380	4060	10	14540	1512	1	330	1	1780	40	1	20	1	1	34.6	101	1	1	1	17	1
48161 B	.8	7650	17	4	202	.4	2	17320	.4	10	5	29800	4060	2	9310	2474	1	210	4	1650	54	1	24	1	1	21.1	167	1	1	1	14	5
48162 B	1.0	10520	60	5	140	.7	3	12440	.1	14	13	44140	3340	5	9190	1374	2	440	1	1780	45	1	30	1	1	35.0	178	1	1	2	28	54
48163 B	3.3	7260	45	3	152	.8	1	7180	19.9	9	110	25830	3750	2	3880	676	5	190	1	1620	2111	4	15	1	1	19.7	3623	1	2	1	32	60
48164 B	1.2	6580	57	3	148	1.1	2	7260	.1	10	11	23210	4230	1	2180	428	5	240	1	1980	136	2	20	1	1	15.2	169	1	1	1	24	59
48165 B	1.5	5470	107	4	134	.7	1	9110	.1	10	16	36930	3640	1	2970	785	1	270	1	1660	95	4	20	1	1	14.3	145	1	1	1	28	113
48166 B	2.5	5630	91	3	117	.7	2	14650	.6	9	72	27630	3620	1	5420	1144	2	260	1	1650	2001	5	23	1	1	15.3	382	1	1	1	30	194
48167 B	1.2	7160	6	4	145	.7	2	17700	.1	9	11	22870	4450	1	6030	1257	3	220	5	1650	87	1	19	1	1	16.2	76	1	1	1	27	5
48168 B	1.6	8160	31	3	185	.9	2	9650	.1	9	33	25170	4460	2	3440	823	7	170	1	1820	148	1	16	1	1	16.7	130	1	1	1	48	37
48169 B	1.3	9100	52	3	150	1.2	2	12500	.1	10	26	29070	4250	3	4990	1407	4	230	1	1730	45	1	20	1	1	18.4	36	1	1	1	31	71
48170 B	3.1	7270	138	3	144	.6	2	10280	2.1	12	13	28110	3990	2	3830	1025	5	160	1	1590	852	6	16	1	1	14.8	550	1	1	1	35	244
48171 B	1.6	6960	59	3	165	.9	2	8640	.4	10	10	25130	3560	2	2860	628	2	150	1	1770	269	2	11	1	1	12.6	275	2	1	1	27	21
48172 B	.7	8870	25	9	128	1.3	2	19110	.1	14	7	32860	3730	5	7210	1712	7	140	1	1700	43	3	22	1	1	19.4	58	1	1	1	11	42
48173 B	.4	12550	21	6	100	1.3	1	9730	.1	10	16	34200	2870	9	5990	1242	1	220	1	1770	24	1	9	1	1	28.5	82	1	1	1	2	27
48174 B	.8	10380	24	6	107	1.3	3	20270	.1	13	8	37170	3030	6	8650	2664	2	150	2	1840	39	2	16	1	1	24.7	62	1	1	1	1	40
48175 B	.9	9900	10	5	166	1.3	2	17060	.1	10	6	31440	3500	6	6910	1952	2	190	2	1850	86	1	11	1	1	25.6	52	1	1	1	4	41
48176 B	1.5	10150	27	5	146	1.2	3	25420	.1	12	16	38910	3830	4	10720	2592	4	210	2	1690	133	2	10	1	1	33.1	443	1	1	1	19	83
48177 B	1.0	11380	6	4	142	1.0	2	20300	.1	9	36	35430	3670	6	7340	2088	1	280	1	1650	81	1	10	1	1	30.6	233	1	1	1	13	24
48178 B	.9	16630	1	5	154	1.2	2	12190	.1	8	36	39420	4170	10	5320	875	1	300	1	1820	56	1	9	1	1	39.1	76	2	1	1	8	16
48179 B	.6	11080	1	3	179	1.1	2	14330	.1	7	7	24010	4580	3	5050	1558	1	310	2	1850	28	1	7	1	1	26.2	44	1	1	1	23	18
48180 B	.6	13170	1	4	184	1.0	2	14950	.1	6	4	25140	4850	5	4850	1326	1	250	1	1880	17	1	12	1	1	26.8	35	1	1	1	16	21
48181 B	.7	15020	1	4	166	1.2	3	18000	.1	11	17	39670	4050	8	8110	2206	3	200	3	1860	38	1	10	1	1	33.6	70	1	1	1	6	16
48182 B	.8	10520	55	3	391	1.0	1	7760	1.5	6	62	22830	4900	3	2980	647	1	260	1	1930	187	1	13	1	1	22.4	250	1	1	1	28	140
48183 B	.8	9230	61	4	166	1.5	2	7230	2.8	8	10	28850	3850	3	3560	589	1	390	1	1940	150	1	16	1	1	24.1	551	1	1	1	22	188
48184 B	1.7	5750	46	4	393	.4	1	15860	10.0	8	84	30740	2760	3	7010	1786	1	230	1	1610	421	4	26	1	1	21.2	1659	1	1	1	13	330
48185 B	1.0	5600	54	2	153	.8	1	11710	2.8	10	10	26120	3020	2	4010	1119	5	220	1	1690	106	2	24	1	1	16.6	174	1	1	1	19	141
48186 B	.9	6730	101	3	142	1.3	2	21700	.1	10	22	39520	3060	3	8720	2441	3	210	1	1700	66	2	35	1	1	27.6	109	1	1	1	7	102
48187 B	.6	8410	30	3	148	1.1	2	18840	.1	8	5	31540	4010	3	7090	2232	1	170	3	1790	38	1	30	1	1	25.2	48	1	1	1	7	35
48188 B	1.1	10130	69	3	125	.9	3	23470	.3	9	8	36750	3540	5	11750	2974	2	220	1	1780	37	1	29	1	1	33.3	35	1	2	1	6	62
48189 B	.8	11980	78	3	114	.9	2	13420	2.3	11	6	43230	2700	8	8170	1579	1	280	1	1650	36	1	24	1	1	40.7	37	1	1	1	2	86
48190 B	.5	13060	80	4	157	1.2	2	12150	1.3	10	22	40060	3760	7	7080	1656	1	270	1	1670	31	1	17	1	1	39.5	56	1	1	1	9	68
48191 B	.7	15460	106	3	172	1.3	3	9750	.1	9	48	47090	3220	10	7980	1546	1	260	1	1620	30	1	13	1	1	44.2	95	1	2	1	3	124
48192 B	.8	10000	102	3	106	1.1	3	13110	1.3	10	11	36510	2420	7	7130	1339	1	250	1	1620	32	1	16	1	1	29.2	115	1	1	1	5	122
48193 B	.8	10320	59	3	141	1.1	1	15190	.1	9	12	31630	3940	5	6250	1305	1	260	3	1690	24	1	16	1	1	24.9	82	1	1	1	7	138
48194 B	1.0	9810	5	3	169	1.0	1	16630	.1	11	10	35020	4160	3	5460	1644	5	170	1	1740	32	1	18	1	1	22.4	58	1	1	1	6	57
48195 B	.9	10210	7	3	128	1.4	1	16990	.1	10	13	33890	2920	5	7130	1686	4	130	1	1580	34	2	10	1	1	22.2	72	1	1	1	1	30
48196 B	.9	12020	1	3	129	.9	3	13330	.1	12	11	43010	3420	6	7380	1388	1	150	1	1580	39	1	10	1	1	25.6	69	1	1	1	1	54
48197 B	.7	7780	122	3	115	1.3	2	8400	.1	10	6	39180	3160	3	3840	660	1	260	1	1880	40	3	14	1	1	24.6	49	1	1	1	15	488
48198 B	.9	8870	22	2	103	.5	2	14700	.1	10	4	29850	2530	4	7110	1602	1	260	1	1820	69	1	14	1	1	30.1	74	1	1	1	14	41

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-23

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 104B/9	CLAIM #	: SIB 7		
LOCAL GRID	: 9634.19 N / 10129.36 E	GLOBAL GRID	: 13749.17 N / 18475.96 E	ELEVATION	: 1128.80 metres
LENGTH	: 153.00 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 297.0 degrees
OVERBURDEN	: 3.05 m	CASING	: 3.48 metres.	ASSAYING BY	: Min-En Labs
LOGGED BY	: Perry Beck	DRILLED BY	: J.T. Thomas	CORE LOCATION	:101+00 N, 98+00 E
DATE LOGGED	: 1990/09/19 Y/M/D	DATE DRILLED	: 1990/09/15 Y/M/D	SAMPLE NO. SERIES:	47128-47221

ACID TESTS

Depth	Dip	Azimuth
151.79	-47.0	297.0

SUMMARY LOG 90-23

From(m)	To(m)	Field Name (Legend)
0.00	3.05	CASING
3.05	19.95	LAPILLI FRAGMENTAL/TUFF (UNIT 11)
19.95	153.00	FRAGMENTAL TUFF/MUDSTONE MATRIX (UNIT 12)
153.00		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-23

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
102.72	103.58	0.86	0.005	0.15	0.38	0.23
104.70	105.00	0.30	0.005	0.25	0.56	1.00

From(m)	To(m)	Description
0.00	3.05	CASING
3.05	19.95	LAPILLI FRAGMENTAL/TUFF (UNIT 11) Colour: light green. Mottled Texture. Composition Fragments: Sub-rounded to sub-angular, elongate 2 to 4 cm long. Groundmass: Fine grained, aphanitic. Structure Laminations: 40 to 70 degrees to core axis. Tuffs/fragments. Alteration K-feldspar: Weak. (1 to 5%). Sericite: Moderate. Within fragments. Mineralization Pyrite: 3 to 8%. Disseminated crystals(1 mm to 1 cm), fine grained within clasts and as halos around clasts, interfragmental laminae and veinlets(<1 cm). Veins Iron carbonate Veining. Core axis angle 25 to 50 degrees. +-quartz veinlets(<1 cm), 5 to 10 per metre.
19.95	153.00	FRAGMENTAL TUFF/MUDSTONE MATRIX (UNIT 12) Composition Matrix: Dark blue to blue fine grained mudstone. Clasts: Round to subround to subangular, fracture fillings with matrix material, felsic. Some plagioclase laths and quartz particles present ranging from sand size to 8 cm. Mineralization Arsenopyrite: From 21.60 to 31.07 metres. Occurs as disseminated crystals(1 to 5mm) and veinlets(<1 cm) throughout the rock. Pyrite: Fine grained disseminated, up to 1 cm, within clasts matrix and veinlets. Veins and Sub-Intervals <74.00>-<104.00>: Intense k-feldspar alteration(30 to 40%). Increased quartz/iron carbonate veining and stockwork but no preferred orientation. Veinlets of quartz(< 1 cm) may contain

From(m)	To(m)	Description
		sphalerite, galena, chalcopyrite,pyrite and arsenopyrite at 70 degrees to core axis(8 to 15 per metre).
		<74.50> : Quartz Vein. +sphalerite+-galena.
		<79.84> : Pyrite Vein. +galena.
		<81.35>-<81.88>: Arsenopyrite Veining. +pyrite.
		<84.10> : Quartz Vein. +galena+sphalerite+pyrite.
		<85.33> : Pyrite Vein. +galena+sphalerite
		<88.20> : Galena Vein. +sphalerite.
		<101.45> : Pyrite Vein. +galena.
		<103.00>-<103.10>: Pyrite Veining. +galena+sphalerite+chalcopyrite.
		<104.00>-<153.00>: Weak k-feldspar alteration(5%). Decreased iron carbonate quartz veinlets and stockwork(2 to 8 per metre). Heterolithic fragments become easily discernable with depth.Fragments make up 60 to 80% of rock with interstitial carbonaceous mudstone matrix. Pyrite occurs as fine to medium grained xls disseminated within clasts and as halos. Iron carbonate veinlets(3 to 8 per metre).
		<110.90> : Quartz-iron carbonate Vein. +galena+chalcopyrite+pyrite. Additional veins at 111.60 m, 114.20 m.116.41 m.
153.00		END OF HOLE.

Hole No.: 90-23

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
47128	3.04	5.48	2.44	-	-	37	-	-	.1	25	1	91	.1	40270	1	19	1	63
47129	5.48	9.62	4.14	-	-	9	-	-	.1	17	1	113	.1	37460	1	11	1	55
47130	9.62	12.82	3.20	-	-	1	-	-	.1	25	1	83	.1	52500	1	10	1	70
47131	12.82	15.82	3.00	-	-	40	-	-	.1	5	1	112	.1	35900	1	22	1	52
47132	15.82	18.82	3.00	-	-	6	-	-	.1	4	1	139	.1	33920	1	22	1	62
47133	18.82	20.00	1.18	-	-	65	-	-	.1	103	15	156	.1	38300	1	20	45	57
47134	20.00	20.94	.94	-	-	22	-	-	.1	11	117	100	.3	34800	1	28	1	42
47135	20.94	22.00	1.06	-	-	61	-	-	.1	10	445	98	6.7	31670	1	33	2	71
47136	22.00	22.90	.90	-	-	42	-	-	.1	6	669	95	8.8	38580	1	15	1	26
47137	22.90	23.40	.50	-	-	162	-	-	.1	6	12533	115	213.1	42680	1	23	9	30
47138	23.40	23.90	.50	-	-	153	-	-	.1	6	2268	105	34.5	38440	1	18	1	37
47139	23.90	25.10	1.20	-	-	119	-	-	.1	7	2211	99	34.4	37280	1	32	1	73
47140	25.10	26.10	1.00	-	-	64	-	-	.1	18	831	92	12.2	33160	1	57	1	111
47141	26.10	27.10	1.00	-	-	100	-	-	.1	20	2008	75	28.8	48570	1	31	2	71
47142	27.10	28.10	1.00	-	-	65	-	-	.1	16	2276	61	35.0	41010	1	39	1	44
47143	28.10	29.10	1.00	-	-	82	-	-	.1	20	3613	79	54.3	45390	1	20	1	41
47144	29.10	30.10	1.00	-	-	19	-	-	.1	17	585	55	6.6	35960	1	19	1	70
47145	30.10	31.10	1.00	-	-	43	-	-	.1	14	1593	44	19.7	51290	1	23	1	58
47146	31.10	32.10	1.00	-	-	28	-	-	.1	4	54	67	.1	38050	1	15	1	42
47147	32.10	33.10	1.00	-	-	2	-	-	.1	4	14	89	.1	36820	1	14	1	30
47148	33.10	34.10	1.00	-	-	36	-	-	.1	4	59	67	.1	32440	1	17	1	33
47149	34.10	35.10	1.00	-	-	20	-	-	.1	4	1	98	.1	32650	1	372	1	85
47150	35.10	36.10	1.00	-	-	2	-	-	.1	17	32	60	.1	40640	1	28	1	42
47151	36.10	37.00	.90	-	-	203	-	-	.1	7	40	69	.1	51880	1	20	1	33
47152	37.00	38.49	1.49	-	-	90	-	-	.1	10	44	56	.1	38280	1	78	1	25
47153	38.49	40.05	1.56	-	-	18	-	-	.1	8	1	82	.1	46010	1	155	1	61
47154	40.05	40.85	.80	-	-	4	-	-	.1	6	1	160	.1	41490	1	21	1	55
47155	40.85	43.00	2.15	-	-	6	-	-	.1	14	1	65	.1	41290	1	13	1	55
47156	43.00	46.00	3.00	-	-	19	-	-	.1	10	1	62	.1	36840	1	16	1	57
47157	46.00	48.16	2.16	-	-	17	-	-	.1	3	1	109	.1	33110	1	18	1	42
47158	48.16	49.40	1.24	-	-	78	-	-	.7	7	29	95	.2	45210	1	24	1	52
47159	49.40	51.45	2.05	-	-	151	-	-	.7	5	1	59	2.0	36840	1	22	1	44
47160	51.45	53.00	1.55	-	-	81	-	-	.7	21	232	141	3.3	29440	1	139	4	140
47161	53.00	53.80	.80	-	-	122	-	-	1.4	47	122	113	.6	34320	1	62	20	99
47162	53.80	55.05	1.25	-	-	36	-	-	.9	13	36	94	.1	25080	1	24	3	15
47163	55.05	56.45	1.40	-	-	9	-	-	.9	7	23	114	.7	21930	1	39	1	29
47164	56.45	58.75	2.30	-	-	25	-	-	.7	8	59	198	.1	31230	1	43	1	58
47165	58.75	60.85	2.10	-	-	18	-	-	.9	9	17	94	.1	30220	1	45	4	49
47166	60.85	62.00	1.15	-	-	58	-	-	.8	16	49	128	.1	32490	1	63	3	122
47167	62.00	63.90	1.90	-	-	52	-	-	.9	9	39	102	1.8	29370	1	80	1	122
47168	63.90	65.90	2.00	-	-	44	-	-	.7	6	1	86	.6	28170	1	65	1	29
47169	65.90	68.00	2.10	-	-	120	-	-	.9	27	1	99	.1	32540	1	108	1	86
47170	68.00	70.00	2.00	-	-	67	-	-	.6	11	1	88	.1	37940	1	50	1	49
47171	70.00	72.82	2.82	-	-	16	-	-	1.2	13	1	95	.1	40970	1	33	1	45
47172	72.82	74.45	1.63	-	-	24	-	-	.6	6	1	78	.1	35200	1	17	1	35
47173	74.45	75.25	.80	-	-	103	-	-	1.8	7	53	85	1.6	34500	1	874	1	497
47174	75.25	76.55	1.30	-	-	42	-	-	.8	6	18	103	1.3	43950	1	26	1	48
47175	76.55	77.80	1.25	-	-	50	-	-	.8	13	189	76	1.4	34430	1	92	1	47
47176	77.80	79.37	1.57	-	-	96	-	-	1.3	12	99	96	.2	35140	1	99	3	128
47177	79.37	80.15	.78	-	-	74	-	-	1.3	158	60	89	2.1	43010	1	113	1	362

Hole No.: 90-23

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
47178	80.15	80.90	.75	-	-	80	-	-	.8	18	66	114	1.0	39270	1	88	1	207
47179	80.90	82.08	1.18	-	-	160	-	-	1.1	20	5752	95	94.0	39250	1	52	5	49
47180	82.08	83.74	1.66	-	-	67	-	-	1.2	36	374	326	6.6	28100	1	90	11	186
47181	83.74	84.50	.76	-	-	4	-	-	3.0	140	78	139	.3	23280	1	1342	225	64
47182	84.50	85.83	1.33	-	-	60	-	-	2.6	136	105	159	6.3	32520	1	432	1285	818
47183	85.83	87.34	1.51	-	-	45	-	-	.7	26	668	77	10.9	40170	1	235	161	394
47184	87.34	88.68	1.34	-	-	219	-	-	1.1	38	206	105	9.4	33210	1	388	73	1383
47185	88.68	90.56	1.88	-	-	39	-	-	.8	6	45	86	.1	27710	1	28	2	31
47186	90.56	92.30	1.74	-	-	56	-	-	.8	6	96	91	.1	29490	1	41	1	84
47187	92.30	93.87	1.57	-	-	90	-	-	1.0	85	45	120	4.3	32820	1	393	1	804
47188	93.87	94.57	.70	-	-	34	-	-	.3	10	56	98	1.3	21680	1	30	1	40
47189	94.57	96.57	2.00	-	-	2	-	-	.4	6	53	99	.1	31270	1	20	1	34
47190	96.57	98.57	2.00	-	-	3	-	-	.9	20	1	98	.9	31050	1	371	1	575
47191	98.57	99.97	1.40	-	-	12	-	-	.8	133	163	99	4.6	36790	2	164	1	1181
47192	99.97	101.22	1.25	-	-	19	-	-	.7	70	149	123	3.7	24360	4	110	1	325
47193	101.22	102.72	1.50	-	-	16	-	-	1.3	75	133	92	1.5	25680	1	643	2	444
47194	102.72	103.58	.86	-	-	183	-	-	5.0	500	100	111	9.9	24050	2	3813	10	2270
47195	103.58	104.70	1.12	-	-	3	-	-	1.0	64	59	75	2.3	21120	2	185	6	297
47196	104.70	105.00	.30	-	-	179	-	-	8.5	1402	220	61	52.2	40820	2	5617	79	9994
47197	105.00	106.54	1.54	-	-	62	-	-	.7	75	27	131	.4	40910	1	128	1	253
47198	106.54	108.05	1.51	-	-	74	-	-	.5	71	50	210	3.3	38450	1	117	5	212
47199	108.05	109.92	1.87	-	-	4	-	-	1.8	89	179	129	2.9	36980	1	291	50	465
47200	109.92	110.82	.90	-	-	199	-	-	1.4	111	87	89	10.5	38850	1	347	1	1826
47201	110.82	111.70	.88	-	-	158	-	-	1.7	232	1	91	1.4	48420	1	611	1	680
47202	111.70	113.72	2.02	-	-	82	-	-	.3	44	1	95	.1	49770	1	62	1	173
47203	113.72	115.62	1.90	-	-	79	-	-	.9	55	42	86	1.4	38610	1	220	1	497
47204	115.62	117.60	1.98	-	-	1	-	-	.7	64	80	102	1.8	39260	1	270	1	300
47205	117.60	119.36	1.76	-	-	104	-	-	.3	30	1	85	.3	45080	1	64	1	145
47206	119.36	121.31	1.95	-	-	80	-	-	.4	17	1	169	.1	44950	1	148	1	133
47207	121.31	123.30	1.99	-	-	92	-	-	.6	33	1	151	.6	37580	1	29	1	61
47208	123.30	125.27	1.97	-	-	68	-	-	.5	27	1	94	.7	41770	1	25	1	67
47209	125.27	127.27	2.00	-	-	35	-	-	.5	22	1	110	.9	30950	1	22	1	77
47210	127.27	130.25	2.98	-	-	42	-	-	.7	31	1	121	.1	22430	1	19	2	81
47211	130.25	131.38	1.13	-	-	98	-	-	.8	17	101	228	1.8	18830	1	43	2	161
47212	131.38	134.83	3.45	-	-	140	-	-	1.0	28	108	163	2.8	31480	2	38	1	102
47213	134.83	136.55	1.72	-	-	172	-	-	.5	48	61	119	.4	36730	1	23	3	57
47214	136.55	138.55	2.00	-	-	98	-	-	.8	44	16	240	.1	29420	1	23	12	78
47215	138.55	140.55	2.00	-	-	83	-	-	.7	28	239	193	4.1	28900	1	31	9	48
47216	140.55	141.94	1.39	-	-	2	-	-	.8	22	80	191	2.1	30950	1	34	10	72
47217	141.94	145.69	3.75	-	-	18	-	-	.2	8	1	82	.1	48790	1	18	1	72
47218	145.69	147.60	1.91	-	-	24	-	-	.8	5	1	371	.1	24220	3	31	4	31
47219	147.60	148.84	1.24	-	-	82	-	-	2.1	157	7	84	.5	51470	4	56	85	228
47220	148.84	149.84	1.00	-	-	15	-	-	.8	22	32	951	.1	34940	2	40	15	116
47221	149.84	153.00	3.16	-	-	70	-	-	.4	19	43	144	.1	33880	1	34	7	69

COMP: COASTAL MTN.ENGRG.
PROJ: SIB
ATTN: M.REBAGLIATI/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-23

FILE NO: 0S-0585-RJ1+2
DATE: 90/10/05
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
47128 B	.1	20190	1	8	91	.4	3	26010	.1	16	25	40270	1860	12	15190	1542	1	140	1	1930	19	1	1	1	1	53.0	63	1	2	1	28	37
47129 B	.1	18900	1	6	113	.7	2	21880	.1	12	17	37460	2410	12	18330	1526	1	130	1	2030	11	1	1	1	1	50.3	55	1	2	1	1	9
47130 B	.1	22000	1	6	83	1.1	2	25110	.1	17	25	52500	2240	14	20610	1840	1	110	1	1940	10	1	1	1	1	59.0	70	1	3	1	1	1
47131 B	.1	7610	1	6	112	.9	2	24270	.1	10	5	35900	2810	3	12080	1519	1	140	1	1890	22	1	6	1	1	23.6	52	1	2	1	1	40
47132 B	.1	7850	1	10	139	1.1	1	17590	.1	11	4	33920	4330	1	9310	1066	1	90	1	2180	22	1	6	1	1	22.5	62	1	1	1	1	6
47133 B	.1	7710	15	9	156	1.3	2	22320	.1	13	103	38300	4390	1	12220	1517	1	80	1	1790	20	45	20	1	1	23.0	57	1	2	1	1	65
47134 B	.1	4810	117	7	100	.6	1	17010	.3	10	11	34800	2550	1	6790	898	1	300	1	2060	28	1	17	1	1	25.4	42	1	2	1	1	22
47135 B	.1	4390	445	9	98	.7	2	15240	6.7	8	10	31670	2460	1	4740	616	1	330	1	1760	33	2	20	1	1	17.6	71	1	1	1	9	61
47136 B	.1	4320	669	4	95	.6	1	9570	8.8	11	6	38580	1660	2	4790	482	1	420	1	2090	15	1	10	1	1	37.2	26	1	1	1	4	42
47137 B	.1	3390	12533	6	115	.8	2	13670	213.1	13	6	42680	1860	1	5700	660	1	400	1	2160	23	9	13	1	1	34.6	30	1	2	1	1	162
47138 B	.1	3750	2268	6	105	.5	1	10750	34.5	11	6	38440	2120	1	4440	605	1	360	1	2040	18	1	12	1	1	32.3	37	1	1	1	7	153
47139 B	.1	2630	2211	5	99	.5	1	16000	34.4	11	7	37280	1610	1	4480	662	1	360	1	2100	32	1	9	1	1	23.5	73	1	1	1	9	119
47140 B	.1	4720	831	4	92	.4	1	11700	12.2	11	18	33160	2220	2	3160	554	1	330	1	1740	57	1	14	1	1	41.5	111	1	1	1	27	64
47141 B	.1	6920	2008	6	75	.7	2	21270	28.8	14	20	48570	2200	3	7360	1290	1	890	1	2170	31	2	13	1	1	52.9	71	1	2	1	1	100
47142 B	.1	10780	2276	2	61	.3	2	18820	35.0	11	16	41010	1180	8	8980	1188	1	310	1	2040	39	1	13	1	1	96.2	44	1	2	1	7	65
47143 B	.1	11480	3613	2	79	.7	2	14540	54.3	13	20	45390	1290	8	8820	939	1	410	1	2200	20	1	6	1	1	108.3	41	2	2	1	20	82
47144 B	.1	11500	585	2	55	.7	1	16680	6.6	10	17	35960	1070	9	9560	1078	1	310	1	2020	19	1	6	1	1	102.4	70	1	2	1	9	19
47145 B	.1	17660	1593	3	44	.8	1	18680	19.7	13	14	51290	900	15	13470	1507	1	240	1	1910	23	1	6	1	1	132.1	58	1	2	1	1	43
47146 B	.1	12850	54	2	67	.7	1	24880	.1	11	4	38050	890	11	11400	1687	1	340	1	1880	15	1	7	1	1	94.6	42	1	1	1	8	28
47147 B	.1	10590	14	2	89	.6	2	23150	.1	10	4	36820	1250	8	9990	1501	1	280	1	2000	14	1	4	1	1	72.7	30	1	1	1	9	2
47148 B	.1	6700	59	2	67	.7	1	15420	.1	9	4	32440	1190	5	6050	831	1	270	1	2100	17	1	12	1	1	72.6	33	1	1	1	18	36
47149 B	.1	10300	1	1	98	.8	1	20590	.1	9	4	32650	1590	7	8690	1237	1	430	1	2130	372	1	10	1	1	101.3	85	1	1	1	19	20
47150 B	.1	10950	32	2	60	.4	1	11900	.1	12	17	40640	1110	8	7980	860	1	270	1	2050	28	1	9	1	1	95.6	42	1	2	1	15	2
47151 B	.1	11500	40	2	69	.6	2	16530	.1	16	7	51880	1210	8	9090	1075	1	240	1	2190	20	1	5	1	1	99.1	33	1	2	1	3	203
47152 B	.1	7440	44	1	56	.7	2	18010	.1	11	10	38280	890	5	6340	983	1	210	1	2130	78	1	10	1	1	79.2	25	1	2	1	8	90
47153 B	.1	16200	1	3	82	1.0	2	19200	.1	15	8	46010	3240	10	10700	1331	1	160	1	2090	155	1	1	1	1	49.3	61	1	2	1	1	18
47154 B	.1	8640	1	4	160	.9	2	16130	.1	12	6	41490	3500	3	8510	1218	1	190	1	1980	21	1	6	1	1	31.6	55	1	2	1	1	4
47155 B	.1	16470	1	2	65	1.1	2	22830	.1	12	14	41290	3010	10	12060	1696	1	210	1	1790	13	1	1	1	1	46.5	55	1	2	1	1	6
47156 B	.1	10260	1	2	62	.8	2	18710	.1	12	10	36840	2820	6	9630	1490	1	170	1	1760	16	1	1	1	1	33.0	57	1	1	1	1	19
47157 B	.1	5850	1	3	109	.8	1	20400	.1	10	3	33110	2850	3	8840	1431	1	190	1	1630	18	1	3	1	1	25.7	42	1	2	1	1	17
47158 B	.7	7990	29	12	95	.8	2	11570	.2	16	7	45210	3410	4	5290	844	1	230	1	1750	24	1	4	1	1	31.2	52	1	2	1	1	78
47159 B	.7	10900	1	7	59	.8	1	10260	2.0	10	5	36840	2660	7	8690	1034	1	260	1	1920	22	1	2	1	1	42.5	44	1	2	1	27	151
47160 B	.7	6420	232	6	141	.9	2	10210	3.3	11	21	29440	3310	1	4830	758	1	310	1	1720	139	4	12	1	1	27.5	140	1	1	1	19	81
47161 B	1.4	3810	122	7	113	.5	1	12830	.6	10	47	34320	2300	1	3660	573	1	480	1	2630	62	20	15	1	1	30.0	99	1	1	1	23	122
47162 B	.9	3870	36	6	94	.5	2	12620	.1	8	13	25080	2350	1	4530	583	1	420	1	2510	24	3	19	1	1	24.6	15	1	1	1	29	36
47163 B	.9	3720	23	4	114	.5	1	10050	.7	6	7	21930	2220	1	4020	594	1	520	1	2440	39	1	16	1	1	35.6	29	1	1	2	50	9
47164 B	.7	4030	59	6	198	.5	2	9070	.1	9	8	31230	2180	1	4610	607	1	760	1	2160	43	1	16	1	1	33.5	58	1	1	1	29	25
47165 B	.9	5100	17	9	94	.5	2	13650	.1	9	9	30220	2960	1	6000	837	1	380	1	2260	45	4	23	1	1	32.0	49	1	1	1	24	18
47166 B	.8	4500	49	4	128	.5	1	11370	.1	11	16	32490	2230	1	5340	736	1	410	1	2380	63	3	17	1	1	48.7	122	1	1	1	32	58
47167 B	.9	4920	39	4	102	.4	1	11120	1.8	9	9	29370	2080	2	5190	698	1	400	1	2220	80	1	15	1	1	46.3	122	1	2	1	30	52
47168 B	.7	10900	1	1	86	.6	2	8380	.6	8	6	28170	1880	6	8100	908	1	310	1	2210	65	1	6	1	1	93.5	29	1	1	1	14	44
47169 B	.9	11120	1	1	99	.9	1	9910	.1	10	27	32540	1390	8	7770	898	1	550	1	2120	108	1	4	1	1	98.3	86	2	1	1	26	120
47170 B	.6	10940	1	2	88	.7	1	7990	.1	10	11	37940	1240	8	8410	947	1	390	1	2100	50	1	6	1	1	87.7	49	2	1	1	15	67
47171 B	1.2	13150	1	2	95	.3	2	21160	.1	12	13	40970	2010	9	8600	1276	1	440	1	2430	33	1	6	1	1	89.6	45	2	2	1	9	16
47172 B	.6	9930	1	1	78	1.0	1	12460	.1	10	6	35200	1060	8	7250	835	1	440	1	1990	17	1	1	1	1	94.7	35	3	1	1	14	24
47173 B	1.8	9050	53	4	85	.3	1	19120	1.6	8	7	34500	1580	6	9900	1657	1	500	1	1620	874	1	18	1	1	102.6	497	2	2	4	75	103
47174 B	.8	9850	18	6	103	.6	1	13250	1.3	11	6	43950	1830	6	9500	1110	1	340	1	2200	26	1	11	1	1	98.4	48	2	1	1	16	42
47175 B	.8	9100	189	6	76	.8	1	14280	1.4	10	13	34430	1820	5	7970	1024	1	360	1	2180	92	1	21	1	1	105.7	47	1	2	2	23	50
47176 B	1.3	6410	99	6	96	.7	1	15170	.2	10	12	35140	2200	3	8650	1187	1	300	1	1780	99	3	16	1	1	62.3	128	1	2	1	29	96
47177 B	1.3	12180	60	3	89	1.1	1	7890	2.1	10	158	43010	1860	8	11320	938	1	280	1	1780	113	1	7	1	1	100.6	362	1	1	1	38	74
47178 B	.8	7950	66	3	114	.5	2	8460	1.0	12	18	39270	1840	4	8380	836	1	360	1	2270	88	1	11	1	1	88.0	207	1	2	1	17	80
47179 B	1.1	4080	5752	5	95	.9	1	11940	94.0	12	20	39250	2070	1	7270	826	1	270	1	2010	52	5	21	1	1	38.7	49	1	2	1	32	160
47180 B	1.2	4880	374	6	326	.1	2	9770	6.6	12	36	28100	2830	1	5830	610	1	350	1	2100	90	11	22	1	1	51.3	186	1	1	1	36	67
47181 B	3.0	4000	78	4	139	.5	2	10490	.3	9	140	23280	2500	1	5440	628	1	410	1	2140	1342	225	17	1	1	44.2	64	1	1	1	41	4
47182 B	2.6	5130	105	12	159	.9	1	22840	6.3	9	136	32520	2920	1	10780	1191	1	150	1	1680	432	1285	51	1	1	22.9	818	1	1	1	32	60
47183 B	.7	5250	668	12	77	.4	2	8720	10.9	11	26	40170	2580	1	6720	717	1	200	1	1450	235	161	11	1	1	33.5	394	1	1	1	42	45
47184 B	1.1	5630	206	10	105	.8	1	9100	9.4	15	38	33210	3640	1	6730	673	1	230	1	1610	388	73	13	1	1	28.2	1383	1	1	1	35	219
47185 B	.8	5350	45	4	86	.8	2	8430	.1	9	6	27710	2500	2	7690	887	1	250	1	1570	28	2	11	1	1	34.9	31	1	1	1	32	39
47186 B	.8	5310	96	4	91	.8	1	10600	.1	8	6	29490	2520	2	9460	1100	1	240	1	1460	41	1	16	1	1	33.3	84	1	1	1	36	56
47187 B	1.0	7180	45	3	120	.6	1	6360	4.3	10	85	32820	2550	4	8840	822	1	230	1	1460	393	1	10	1	1	39.9	804	1	1	1	48	90

COMP: COASTAL MTN.ENGRG.
PROJ: SIB
ATTN: M.REBAGLIATI/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-23

FILE NO: OS-0585-RJ3+4
DATE: 90/10/05
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
47188 B	.3	6190	56	11	98	.6	2	3910	1.3	7	10	21680	3840	1	5210	544	1	300	1	1630	30	1	8	2	1	24.2	40	1	1	1	44	34
47189 B	.4	4980	53	7	99	.9	1	6300	.1	10	6	31270	2470	2	7310	855	1	180	1	1700	20	1	11	1	1	22.1	34	1	1	1	23	2
47190 B	.9	10140	1	5	98	.8	1	8990	.9	10	20	31050	2510	6	9460	1220	1	200	1	1580	371	1	8	1	1	40.2	575	1	2	1	32	3
47191 B	.8	6850	163	4	99	.6	1	5870	4.6	11	133	36790	1830	4	5180	562	2	240	1	1450	164	1	9	1	1	36.7	1181	1	1	2	67	12
47192 B	.7	4290	149	3	123	.6	1	6160	3.7	8	70	24360	2620	1	2770	373	4	180	1	1510	110	1	9	1	1	21.8	325	1	1	1	71	19
47193 B	1.3	2420	133	3	92	.4	1	5070	1.5	9	75	25680	1640	1	1500	189	1	200	1	1660	643	2	10	1	1	12.3	444	1	1	1	60	16
47194 B	5.0	4530	100	4	111	.5	1	5650	9.9	9	500	24050	3320	1	1390	227	2	230	1	1400	3813	10	9	1	1	14.3	2270	1	1	1	71	183
47195 B	1.0	2900	59	3	75	.5	2	8680	2.3	7	64	21120	1950	1	3650	514	2	190	1	1500	185	6	13	1	1	12.1	297	1	1	1	64	3
47196 B	8.5	3910	220	6	61	.4	1	13040	52.2	13	1402	40820	2690	1	4720	804	2	190	1	1670	5617	79	22	1	1	13.9	9994	1	3	1	29	179
47197 B	.7	7620	27	5	131	.9	1	8340	.4	12	75	40910	3030	3	8700	1221	1	190	1	1840	128	1	9	1	1	27.4	253	1	1	1	16	62
47198 B	.5	6910	50	5	210	.6	1	7030	3.3	12	71	38450	3230	3	7460	827	1	150	1	1910	117	5	10	1	1	21.4	212	1	1	1	5	74
47199 B	1.8	3980	179	6	129	.8	2	19950	2.9	11	89	36980	2740	1	7910	1160	1	100	1	1820	291	50	31	1	1	14.6	465	1	2	1	11	4
47200 B	1.4	8180	87	4	89	.6	2	5600	10.5	13	111	38850	2920	3	5130	551	1	160	1	1860	347	1	8	1	1	22.1	1826	1	1	1	13	199
47201 B	1.7	15050	1	4	91	1.1	1	7590	1.4	13	232	48420	2890	9	11180	1377	1	160	1	1680	611	1	4	1	1	46.5	680	2	3	1	11	158
47202 B	.3	19710	1	3	95	1.0	1	4800	.1	15	44	49770	3070	12	12580	1290	1	230	1	2140	62	1	2	1	1	50.4	173	1	2	1	1	82
47203 B	.9	10970	42	4	86	.6	1	7570	1.4	12	55	38610	2470	6	8840	1083	1	170	1	1950	220	1	9	1	1	33.8	497	2	2	1	4	79
47204 B	.7	10880	80	4	102	.5	1	8560	1.8	14	64	39260	2870	6	8800	1080	1	220	1	1900	270	1	9	1	1	38.8	300	1	2	1	11	1
47205 B	.3	14340	1	3	85	1.1	2	4880	.3	16	30	45080	2540	9	10320	1126	1	200	1	1730	64	1	4	1	1	43.6	145	1	2	1	1	104
47206 B	.4	12780	1	5	169	1.3	2	6740	.1	24	17	44950	4100	6	9760	1149	1	110	1	1530	148	1	8	1	1	34.7	133	1	2	1	1	80
47207 B	.6	11060	1	4	151	.7	2	7950	.6	18	33	37580	2800	6	10060	1312	1	160	2	1740	29	1	8	1	1	40.2	61	1	1	1	1	92
47208 B	.5	14070	1	3	94	.8	1	9880	.7	17	27	41770	2440	9	11770	1453	1	160	1	1900	25	1	7	1	1	44.6	67	1	2	1	1	68
47209 B	.5	10490	1	3	110	.8	1	8510	.9	9	22	30950	2940	5	10480	1166	1	200	1	2090	22	1	9	1	1	30.3	77	1	1	1	1	35
47210 B	.7	6620	1	5	121	.8	1	9710	.1	8	31	22430	3400	2	7190	947	1	220	1	1950	19	2	11	1	1	24.7	81	1	1	1	12	42
47211 B	.8	5550	101	6	228	.8	1	6930	1.8	11	17	18830	3600	1	2410	331	1	160	2	1560	43	2	9	1	1	13.4	161	1	1	1	12	98
47212 B	1.0	5760	108	4	163	.8	2	4890	2.8	13	28	31480	3170	1	2580	344	2	170	1	1590	38	1	8	1	1	20.4	102	1	1	1	9	140
47213 B	.5	7430	61	4	119	.8	1	6020	.4	11	48	36730	3410	3	6270	831	1	190	1	1660	23	3	10	1	1	25.6	57	1	1	1	13	172
47214 B	.8	5710	16	4	240	.9	1	8860	.1	10	44	29420	3460	1	6120	834	1	180	1	1870	23	12	16	1	1	19.9	78	1	1	1	9	98
47215 B	.7	5860	239	9	193	1.1	2	10440	4.1	12	28	28900	3490	1	5460	790	1	170	1	1370	31	9	13	1	1	18.9	48	1	1	1	12	83
47216 B	.8	5510	80	8	191	.9	1	8160	2.1	13	22	30950	3040	1	5260	713	1	140	1	1700	34	10	12	1	1	22.2	72	1	1	1	1	2
47217 B	.2	8980	1	5	82	1.1	1	7010	.1	13	8	48790	2360	7	11660	1410	1	70	1	1210	18	1	14	1	1	23.3	72	1	3	1	1	18
47218 B	.8	3900	1	12	371	.8	1	19370	.1	13	5	24220	2190	1	8900	1206	3	260	3	1450	31	4	18	1	1	15.7	31	1	1	1	4	24
47219 B	2.1	9510	7	12	84	1.5	1	12560	.5	17	157	51470	2500	10	10730	1515	4	220	1	1660	56	85	14	1	1	51.6	228	1	3	1	1	82
47220 B	.8	4730	32	10	951	1.3	2	28120	.1	12	22	34940	2680	1	15070	1875	2	120	2	1290	40	15	25	1	1	18.9	116	1	1	1	15	15
47221 B	.4	9240	43	8	144	1.4	1	18130	.1	10	19	33880	3040	4	11080	1490	1	130	1	1730	34	7	13	1	1	25.6	69	1	1	1	10	70

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-24

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 104B/9	CLAIM #	: SIB 9		
LOCAL GRID	: 9439.46 N / 10054.97 E	GLOBAL GRID	: 13608.76 N / 18321.88 E	ELEVATION	: 1134.08 metres
LENGTH	: 224.05 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 300.0 degrees
OVERBURDEN	: 5.17 m	CASING	: 5.17 metres	ASSAYING BY	: Min-En Labs
LOGGED BY	: Guy LePage	DRILLED BY	: J.T. Thomas	CORE LOCATION	: 101+00 N, 98+00 E
DATE LOGGED	: 1990/09/18 Y/M/D	DATE DRILLED	: 1990/09/16 Y/M/D	SAMPLE NO. SERIES	: 48277-48401

ACID TESTS

Depth	Dip	Azimuth
194.16	-47.0	300.0

SUMMARY LOG 90-24

From(m)	To(m)	Field Name (Legend)
0.00	5.17	CASING
5.17	32.97	POTASSIC FLOODED FRAGMENTAL TUFF (UNIT 11)
32.97	35.56	MUDSTONE/SILTSTONE/SANDSTONE (UNIT 12)
35.56	92.25	TUFFACEOUS LAPILLI FRAGMENTAL (UNIT 11)
92.25	105.57	PLAGIOCLASE PORPHYRY TUFF +- FRAGMENTAL ANDESITE (UNIT 11)
105.57	116.14	ARGILLACEOUS SILTY SANDSTONE+- WACKE (UNIT 15)
116.14	125.80	SANDSTONE (UNIT 14)
125.80	133.50	ARGILLACEOUS SILTSTONE SANDSTONE (UNIT 14)
133.50	136.07	WACKE (UNIT 15)
136.07	203.06	MUDSTONE/SILTSTONE (UNIT 12)
203.06	208.80	WACKE (UNIT 15)
208.80	224.05	ARGILLACEOUS SILTSTONE-SANDSTONE (UNIT 14)
224.05		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-24

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
23.77	26.00	2.23	0.011			

From(m)	To(m)	Description
0.00	5.17	CASING
5.17	32.97	POTASSIC FLOODED FRAGMENTAL TUFF (UNIT 11) Plagioclase Phenocrysts: Euhedral to subhedral, average 1 to 15 mm in length, weak to moderate sericitization(30 to 35%). Composition Groundmass: Black to grey black (to pink grey depending on alteration), aphanitic, plagioclase rich. Fragments: 20 to 25%. Rounded to sub-angular, range from 3 to 100 mm(average 20 to 25 mm) in width. Interbedding: Discrete tuffaceous layers at 70 to 90 degrees to core axis averaging 4 to 10 cm in width. Chlorite: 5 to 10%. Interbedding with the tuffaceous horizon. Structure Jointing: 20 to 50 degrees to core axis. And lesser 20 degrees to core axis. Shearing: 50 to 60 degrees to core axis. Strong. Limonitic + sheared tuffs. Alteration K-feldspar: Moderate. Relatively unaltered silicified/albitized tuffs and fragmentals are interspersed with zones of pervasive k-feldspar alteration extending up to 1 m downhole more commonly 20 to 50 cm. Mineralization Pyrite: 2 to 3%. Randomly distributed clusters, blebs and less commonly in discrete veinlets(+-chlorite) 1 to 5 mm(average 3mm) in width at varied degrees to core axis. Sphalerite: Trace. Selvedges within quartz veins(average 3 to 4 mm in width) at high angles to the core axis. Present at 10.10 m. and 18.13 m. Veins and Sub-Intervals Quartz Veining. 20 and 50 degrees to core axis. +-Iron carbonate+-chlorite+-sulphides, average 2 to 3 mm(range 1 to 20 mm) in width.Thicker veins contain brecciated volcanic fragments. <23.11>-<23.68>: FAULT. Upper contact 50 or 80 degrees to core axis. Stong shearing at 50 to 60 degrees to core axis.
32.97	35.56	MUDSTONE/SILTSTONE/SANDSTONE (UNIT 12) Composition Lithology: Well bedded with alternating black argillaceous layers interbedded

From(m) To(m) ----------Description----------

with silt and sandstone quartzose and felsic layers. Graded bedding indicates facing downhole.

Structure
Bedding: 50 degrees to core axis.
Mineralization
Pyrite: 2 to 3%. Well laminated and limonitic pyrite are interbedded with argillaceous siltstone sandstone mudstone layers. Also associated with quartz veins.
Veins
Quartz Veining. Core axis angle variable. Sub-parallel to bedding, +-chlorite, average 10 mm in width(range from 3 to 20 mm), average 10 per metre.

35.56 92.25 TUFFACEOUS LAPILLI FRAAGMENTAL (UNIT 11)
Plagioclase Phenocrysts: Euhedral to subhedral, modeerately to strongly sericitized, average 2 to 3 mm in length(30 to 35%).
Composition
Lithology: Plagioclase porphyry tuff with interbeds of volcanic fragments.
Groundmass: Fine grained, grey blue to grey, plagioclase rich(in tuffaceous horizons).
Fragments: 10 to 80%. Well rounded to sub-rounded, monolithic consisting of plagioclase porphyry tuff, range from mm to 20 cm with average of 4 to 5 cm in width. Green black chlorite forms an interstitial cementing matrix in parts.
Structure
Bedding: 45 degrees to core axis. Throughout.
Alteration
Potassic: Rare flooding of volcanic fragmentals. Staining indicates minor secondary k-feldspar interstitial to the clasts .
Sericite: Moderate to Strong. Of plagioclase phenocrysts throughout.
Mineralization
Pyrite: 2 to 3%. Clusters and disseminated associated with volcanic fragments. Disseminated and medium to coarse euhedral blebs throughout. Occasional selvedges within veins(+_chlorite+_k-feldspar+_quartz) at 50 to 60 degrees to core axis from 1 to 8 mm(average 4 to 5 mm) wide frequency 2 per metre.
Sub-Intervals
<68.20>-<92.25>: Unit is flooded by a blue grey aphanitic chalcedonic quartz

From(m)	To(m)	Description
		assemblege which forms an interbedded vein assemblege enclosing selvedges of angular volcanic fragments together enclosing larger rounded volcanic fragments. Very low sulphide content.
92.25	105.57	PLAGIOCLASE PORPHYRY TUFF +- FRAGMENTAL ANDESITE (UNIT 11) Plagioclase Phenocrysts: Euhedral to subhedral, sericitized, average 2 to 3 mm in length. Composition Gneissic: Dark grey to blue grey, aphanitic, plagioclase rich. Fragments: Plagioclase porphyry, 4 to 5 mm up to 20 mm(average 10 mm). in width. towards upper contact. Structure Bedding: 60 degrees to core axis. Unit appears to fine downwards. Jointing: 60 degrees to core axis. Parallel to bedding plane. Alteration Carbonate: Strong. Pervasive(10 to 15%) throughout. Mineralization Pyrite: 3 to 5%. Descrete veins(+-chlorite+-calcite) oriented parallel to bedding and at high angles to degrees to core axis. Clusters and disseminated throughout. Veins <100.00>-<103.50>: Quartz Veining. Two generations + iron carbonate. One at 70 degrees to core axis (3 to 7 mm wide, average 4 to 5 mmm) with frequency of 5 per metre. The other at 25 degrees to core axis(average 8 mm in width) with 1 to 2 per metre.
105.57	116.14	ARGILLACEOUS SILTY SANDSTONE+- WACKE (UNIT 15) Composition Lithology: Alternating plagioclase chloritic and minor quartzose layers from mm's to 15 mm wide(average 3 to 5 mm). Soft sediment structures such as graded bedding indicate that the unit is facing downhole. Structure Bedding: 45 degrees to core axis. Towards upper contact at 50 to 60 degrees to core axis. Jointing: 45 and 60 degrees to core axis. Appears to parallel bedding. Alteration Sericite: Weak. Present in plagioclase phenocrysts.

From(m) To(m) ----------Description----------

Carbonitized: Strong. 10 to 15% with the exception of strongly argillitized layers.

Mineralization

Pyrite: 2 to 3%. Fine disseminations and blebs throughout. Selvedges within quartz(+-chlorite+-iron carbonate+-k-feldspar) veins at 60 grading to 45 degrees to core axis with average 2 to 3 mm in width(range from 1 to 50 mm). Post dated by less extensive veins sub-parallel to 20 degrees to core axis(average 1 to 2 mm) wide.

Veins

Quartz Veining. +-chlorite+-sulphides throughout.

116.14 125.80 SANDSTONE (UNIT 14)

Composition

Lithology: Medium grained, angular to sub-angular moderately sorted sandstone grading through to poorly sorted wacke towards the upper contact. Consists of medium grained quartz, plagioclase and chlorite throughout.

Structure

Jointing: 50 to 60 degrees to core axis. Generally massive and undeformed.
Lower contact: 30 degrees to core axis.
Upper contact: Unclear.

Alteration

Carbonitized: Patchy (1 to 10%) throughout.

Mineralization

Pyrite: 2 to 3%. fine grained disseminated specs, dissemination and blebs as selvedges within the milky white quartz veins.
Galena: 1 to 2%.
Chalcopyrite: Trace.
Sphalerite: 1 to 2%.

Veins

Quartz Veining. Core axis angle 45 to 55 degrees. +-Chlorite. 2 to 70 mm(average 8 mm) in width, frequency 0 to 6 per metre.
<124.42>-<124.45>: Quartz-sulphide Veining. Core axis angle 60 degrees. +-galena+-chalcopyrite+-sphalerite, brecciated with minor iron carbonate.

From(m)	To(m)	Description
125.80	133.50	ARGILLACEOUS SILTSTONE SANDSTONE (UNIT 14) Composition Lithology: Interbedded argillite and silty sandstone layers well bedded near upper contact grade to a dirty sandstone towards 126.20 metres. Below the fault grades from black argillaceous unit to silty sandstone/wacke. Structure Bedding: 50 degrees to core axis. Well bedded near upper contact. Jointing: 55 to 60 degrees to core axis. Massive and undeformed. Alteration Carbonitized: Weak. Mineralization Pyrite: 1 to 2%. Flattened and oriented blebs parallel to bedding in silty horizons and as fine grained disseminated and occasional blebs in coarse layers. Sub-Intervals <126.72>-<127.20>: FAULT. Gouge and broken core throughout.
133.50	136.07	WACKE (UNIT 15) Composition Fragments: 20 to 30%. Lithic(quartzose felsic), grade from sandsize to lapilli size(4 mm), angular, poorly sorted. Structure Bedding: 30 to 50 degrees to core axis. Variable with 30 being the more common. Jointing: variable. Mineralization Pyrite: 1 to 3%. Coarse euhedral blebs, fine disseminations, rarely in quartz veins(+-iron carbonate), selvedges within quartz stockwork at 40 to 50 degrees to core axis with average 30 mm width(2 veins). Veins Quartz Veining. Core axis angle 50 to 70 degrees. 1 to 7 mm wide(average 3 mm), +- iron carbonate.
136.07	203.06	MUDSTONE/SILTSTONE (UNIT 12) Composition Lithology: Fine aphanitic black to grey black argillaceous mudstones which grade downhole to an argillaceous siltstone with beds from 0.5 to 4 mm(average 1 to 1.5 mm) in width.

From(m) To(m) ----------Description----------

Structure
Bedding: 45 to 50 degrees to core axis.
Jointing: 45 to 50 degrees to core axis. Parallel to bedding throughout.
Alteration
K-feldspar: Weak. Localized veining(up to 1%).
Sub-Intervals

<136.07>-<159.00>: Pyrite 1 to 2% as discrete layers beds and veins(1 to 3 mm with average average 2 mm width) parallel to bedding. Also in blebs(2 to 20 mm width, average 5mm)+- calcite+-chlorite. In randomly oriented veins associated with brecciated argillite/quartz/iron carbonate veins at 45 to 50 degrees to core axis, average 10mm width, frequency 1 to 2 per metre.

<159.00>-<169.40>: Increased quartz veining and quartz/argillite brecciated veins/stockwork +-iron carbonate+-chlorite. Brecciated veins oriented at 40 to 45 degrees to core axis(5 to 45 mm wide, average 25 mm). Quartz veins from sub-vertical to 50 degrees to core axis(1 to 12 mm wide, average 6 mm). Pyrite(1 to 3%) as selvedges within veining/stockwork. Trace sphalerite and rare galena.

<169.40>-<180.27>: Similar to 136.07 to 159.00 metres. Slight increase in disseminated pyrite(1 to 3%).

<180.27>-<193.62>: Marked increase in quartz veining at 10 to 30 degrees to core axis(average 15 to 20 degrees to core axis) from 1 to 40 mm wide(av20 mm), frequency 5 to 10 per metre including an intersection from 187.57 to 188.52 metres at 5 degrees to core axis. Interlayered with minor chlorite+-iron carbonate. Trace pyrite and sphalerite and galena. Ribboned.

<193.62>-<196.30>: VEIN. Ribboned quartz interlayered with argillaceous bands 1 to 3mm in width(70 % of the interval) and chlorite . Sphalerite 1 to 2%, galena trace to 1%, chalcopyrite 0.5 to 1% and pyrite 1 to 2% as specs and blebs within quartzose layers. Oriented of veins is sub-parallel to 5 degrees to core axis.

<196.30>-<203.06>: Minor randomly oriented quartz veins with selvedges of pyrite. Pyrite also as blebs and disseminated throughout towards 202.0 metres.
Quartz/chlorite/galena/sphalerite/chalcopyrite vein at 20

From(m)	To(m)	Description
		degrees to core axis (15 mm wide). For the interval pyrite(1 to 2%) and trace sphalerite, chalcopyrite, galena.
203.06	208.80	WACKE (UNIT 15) Composition Groundmass: Light green grey to green black, fine grained, plagioclase rich. Fragments: Sand size particles to lapilli size clasts, quartose to feldspathic to varied fragments(tuffaceous). Mineralization Pyrite: 2 to 3%. Blebs and disseminations in ribboned quartz veins. Sphalerite: Trace to 1%. In quartz veins. Galena: Trace. In quartz veins. Chalcopyrite: Trace. In quartz veins. Veins Quartz Veining. Core axis angle 25 to 30 degrees. Late stage veins, 1 to 18 mm in width(average 8 to 10 mm), frequency < 20 per metre. Quartz Veining. Core axis angle 1 to 15 degrees. Ribboned veins.
208.80	224.05	ARGILLACEOUS SILTSTONE-SANDSTONE (UNIT 14) Composition Lithology: Similar to 136.07 to 203.74 metres. Mineralization Pyrite: 1 to 2%. Fine grained disseminated and occasional blebs, radomly oriented veinlets(frequency 10 per metre) from 1 to 40 mm wide(average 15 to 20 mm). Veins Quartz Veining. Core axis angle parallel to bedding to 30 degrees. +-Chlorite. Notable decrease in veining.
224.05		END OF HOLE.

Hole No.: 90-24

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	5.17	5.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48277	5.17	8.00	2.83	-	-	300	-	-	1.0	22	88	79	.9	32090	1	64	1	156
48278	8.00	9.00	1.00	-	-	189	-	-	1.6	30	125	90	1.9	32570	1	68	4	205
48279	9.00	11.00	2.00	-	-	328	-	-	.7	9	91	71	.1	38790	1	33	1	47
48280	11.00	13.00	2.00	-	-	21	-	-	1.1	7	33	96	.4	32970	1	26	5	66
48281	13.00	15.00	2.00	-	-	96	-	-	.9	4	105	294	.1	34260	1	36	4	43
48282	15.00	17.00	2.00	-	-	38	-	-	.5	11	70	134	.2	39540	1	23	7	32
48283	17.00	18.00	1.00	-	-	79	-	-	.8	7	52	142	.1	46910	1	39	3	48
48284	18.00	19.00	1.00	-	-	122	-	-	1.1	9	113	122	.1	36820	3	41	3	46
48285	19.00	20.00	1.00	-	-	121	-	-	1.3	20	90	157	.5	47070	2	44	6	119
48286	20.00	23.12	3.12	-	-	61	-	-	.8	12	58	132	.1	39020	1	32	4	71
48287	23.12	23.77	.65	-	-	43	-	-	.7	5	56	495	.1	29520	2	31	4	50
48288	23.77	26.00	2.23	-	-	382	-	-	1.1	9	94	260	1.7	32810	3	43	6	79
48289	26.00	28.00	2.00	-	-	74	-	-	1.0	13	60	126	.1	40350	2	41	7	68
48290	28.00	30.00	2.00	-	-	36	-	-	1.2	5	65	93	.2	36380	1	32	4	53
48291	30.00	32.00	2.00	-	-	33	-	-	1.1	10	53	290	.1	38880	1	35	6	57
48292	32.00	32.97	.97	-	-	31	-	-	1.4	31	51	104	.1	40370	2	46	20	103
48293	32.97	34.00	1.03	-	-	47	-	-	1.3	12	37	191	.1	26580	3	37	8	27
48294	34.00	35.00	1.00	-	-	69	-	-	1.5	21	91	458	.4	28380	4	41	14	85
48295	35.00	35.56	.56	-	-	56	-	-	1.0	17	69	193	.4	24380	7	37	13	87
48296	35.56	37.00	1.44	-	-	8	-	-	.4	24	36	161	.1	56300	8	37	12	133
48297	37.00	39.00	2.00	-	-	27	-	-	.7	13	19	136	.9	37260	1	26	8	88
48298	39.00	41.00	2.00	-	-	12	-	-	.4	9	13	93	.1	37640	1	37	1	77
48299	41.00	43.00	2.00	-	-	53	-	-	.5	17	10	90	.1	37080	1	30	1	88
48300	43.00	45.00	2.00	-	-	3	-	-	.4	15	1	351	.1	36700	1	38	1	111
48301	45.00	47.00	2.00	-	-	20	-	-	.7	39	13	66	.1	40150	1	28	1	113
48302	47.00	49.00	2.00	-	-	11	-	-	.5	8	12	141	.1	33770	1	29	1	82
48303	49.00	51.00	2.00	-	-	14	-	-	.8	16	1	135	.1	38930	1	37	1	99
48304	51.00	53.00	2.00	-	-	2	-	-	1.0	30	1	167	.1	32940	1	28	1	66
48305	53.00	56.00	3.00	-	-	3	-	-	.5	21	1	130	.1	40910	1	25	1	152
48306	56.00	59.00	3.00	-	-	3	-	-	.8	16	1	139	.1	39460	1	19	1	80
48307	59.00	62.00	3.00	-	-	2	-	-	.5	19	6	138	.1	44970	1	29	1	81
48308	62.00	65.00	3.00	-	-	1	-	-	.6	12	1	143	.1	41600	1	21	1	72
48309	65.00	68.00	3.00	-	-	1	-	-	.1	27	1	117	.1	47560	1	34	1	101
48310	68.00	71.00	3.00	-	-	1	-	-	.5	21	1	134	.1	46990	1	18	1	99
48311	71.00	74.00	3.00	-	-	2	-	-	.3	20	1	131	.1	40980	1	19	1	90
48312	74.00	77.00	3.00	-	-	1	-	-	.4	14	1	147	.1	44490	1	30	1	89
48313	77.00	80.00	3.00	-	-	2	-	-	.3	19	1	116	.1	46050	1	25	1	104
48314	80.00	83.00	3.00	-	-	1	-	-	.1	34	1	102	.1	50690	1	18	1	126
48315	83.00	86.00	3.00	-	-	5	-	-	.1	10	1	98	.6	47150	1	15	1	88
48316	86.00	89.00	3.00	-	-	1	-	-	.1	26	1	197	.1	51150	1	18	1	87
48317	89.00	92.00	3.00	-	-	2	-	-	.1	11	1	142	.1	47540	1	23	1	64
48318	92.00	95.00	3.00	-	-	142	-	-	.8	34	73	153	2.8	29690	2	53	5	79
48319	95.00	96.00	1.00	-	-	16	-	-	.6	7	25	133	.5	22130	1	36	1	372
48320	96.00	99.00	3.00	-	-	1	-	-	.6	7	53	90	.4	17110	1	33	2	28
48321	99.00	102.00	3.00	-	-	22	-	-	1.2	11	62	253	.1	31270	2	40	3	59
48322	102.00	105.00	3.00	-	-	15	-	-	1.4	15	67	107	.1	33190	2	44	3	59
48323	105.00	108.00	3.00	-	-	16	-	-	1.5	13	1	93	3.0	31450	2	34	1	108
48324	108.00	109.30	1.30	-	-	37	-	-	1.4	12	27	94	.1	47690	3	42	1	68
48325	109.30	110.00	.70	-	-	76	-	-	1.4	12	40	92	.1	41290	1	43	1	73

Hole No.: 90-24

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
48326	110.00	112.00	2.00	-	-	122	-	-	1.3	16	104	108	1.2	31340	3	55	3	63
48327	112.00	115.55	3.55	-	-	86	-	-	1.3	12	72	97	.1	26860	4	59	3	38
48328	115.55	116.88	1.33	-	-	97	-	-	3.2	46	84	148	1.1	36510	8	96	12	172
48329	116.88	120.00	3.12	-	-	46	-	-	.5	8	18	70	.1	32290	1	28	1	69
48330	120.00	123.00	3.00	-	-	2	-	-	1.1	7	86	71	.1	31040	2	38	1	37
48331	123.00	125.50	2.50	-	-	102	-	-	2.5	326	95	151	9.3	39550	3	343	45	1085
48332	125.50	127.00	1.50	-	-	43	-	-	.9	17	83	82	1.1	28150	1	58	6	105
48333	127.00	128.00	1.00	-	-	42	-	-	2.3	318	130	140	7.3	39350	4	378	45	1090
48334	128.00	130.00	2.00	-	-	39	-	-	1.7	39	83	94	.1	57890	1	63	12	97
48335	130.00	133.00	3.00	-	-	163	-	-	2.0	14	200	78	2.7	32200	2	56	10	42
48336	133.00	134.12	1.12	-	-	60	-	-	2.6	24	112	122	1.9	41750	1	54	10	210
48337	134.12	137.00	2.88	-	-	31	-	-	1.9	12	7	76	.4	26770	2	41	7	44
48338	137.00	140.00	3.00	-	-	36	-	-	2.6	23	31	81	.1	29970	4	43	7	72
48339	140.00	143.00	3.00	-	-	41	-	-	1.9	25	26	81	.1	33790	3	39	11	80
48340	143.00	146.00	3.00	-	-	25	-	-	2.4	21	30	75	.1	33060	2	45	8	75
48341	146.00	149.00	3.00	-	-	42	-	-	2.0	44	4	93	.1	37310	3	39	5	176
48342	149.00	151.00	2.00	-	-	18	-	-	1.8	30	37	133	.1	42510	1	46	12	86
48343	151.00	153.00	2.00	-	-	3	-	-	1.5	28	17	139	.1	46430	2	49	12	73
48344	153.00	155.00	2.00	-	-	4	-	-	1.4	37	27	140	.1	42500	2	44	14	80
48345	155.00	157.00	2.00	-	-	60	-	-	1.7	28	12	102	.1	37950	4	48	11	81
48346	157.00	159.00	2.00	-	-	4	-	-	1.9	21	27	135	.1	34570	2	36	9	75
48347	159.00	161.00	2.00	-	-	21	-	-	1.7	41	27	88	.1	42960	1	50	10	83
48348	161.00	162.00	1.00	-	-	26	-	-	1.1	33	16	101	.1	30710	1	51	9	71
48349	162.00	163.00	1.00	-	-	40	-	-	1.3	45	35	96	.1	33990	2	65	14	87
48350	163.00	164.00	1.00	-	-	84	-	-	1.9	32	2653	67	42.9	40240	1	82	17	94
48351	164.00	165.00	1.00	-	-	66	-	-	1.6	37	1580	81	26.0	38460	3	75	15	103
48352	165.00	166.00	1.00	-	-	64	-	-	2.1	35	2262	78	33.8	38000	2	84	17	93
48353	166.00	167.00	1.00	-	-	110	-	-	2.3	40	578	89	11.5	36050	2	77	17	116
48354	167.00	168.00	1.00	-	-	130	-	-	3.2	47	547	98	11.1	41290	3	92	20	127
48355	168.00	169.00	1.00	-	-	80	-	-	2.0	35	1078	157	16.8	36400	4	59	13	67
48356	169.00	170.00	1.00	-	-	4	-	-	2.0	15	55	267	.1	22630	2	49	7	43
48357	170.00	171.00	1.00	-	-	16	-	-	2.0	12	25	77	.1	28380	2	38	3	291
48358	171.00	172.00	1.00	-	-	10	-	-	1.9	13	2	224	3.5	25930	4	88	4	515
48359	172.00	173.00	1.00	-	-	35	-	-	1.0	18	6	93	.1	28250	3	62	8	186
48360	173.00	174.00	1.00	-	-	80	-	-	2.1	28	14	124	.1	32850	2	63	16	107
48361	174.00	175.00	1.00	-	-	60	-	-	1.8	24	20	126	.1	30770	5	48	11	107
48362	175.00	176.00	1.00	-	-	79	-	-	2.1	33	3	99	.1	39420	9	64	11	78
48363	176.00	177.00	1.00	-	-	65	-	-	2.3	30	22	131	.1	37220	5	82	13	81
48364	177.00	178.00	1.00	-	-	21	-	-	.7	13	1	82	.1	48560	6	55	1	210
48365	178.00	179.00	1.00	-	-	42	-	-	1.1	18	7	69	.1	26090	3	56	5	71
48366	179.00	180.00	1.00	-	-	41	-	-	1.2	14	2	74	.1	26890	4	60	5	47
48367	180.00	181.00	1.00	-	-	43	-	-	2.3	35	1	120	.1	17810	3	85	7	48
48368	181.00	182.00	1.00	-	-	57	-	-	1.2	22	1	56	.6	30400	4	66	6	105
48369	182.00	182.74	.74	-	-	22	-	-	2.0	233	1	56	8.4	41860	1	803	6	1857
48370	182.74	183.70	.96	-	-	44	-	-	1.5	104	34	74	.7	33040	6	147	9	410
48371	183.70	185.00	1.30	-	-	80	-	-	.8	26	3	105	.1	42800	2	78	6	116
48372	185.00	186.00	1.00	-	-	56	-	-	.6	15	25	84	.1	29280	2	53	2	33
48373	186.00	187.57	1.57	-	-	140	-	-	1.0	46	63	56	1.5	34260	8	84	1	514
48374	187.57	188.53	.96	-	-	60	-	-	2.3	145	37	45	.6	14220	21	116	17	237
48375	188.53	190.18	1.65	-	-	85	-	-	1.2	19	42	72	.8	25820	7	48	5	48

Hole No.: 90-24

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
48376	190.18	191.74	1.56	-	-	64	-	-	3.0	671	91	143	16.8	28470	7	2613	15	3128
48377	191.74	193.00	1.26	-	-	40	-	-	1.4	325	1	67	.1	28640	1	39	1	111
48378	193.00	194.27	1.27	-	-	4	-	-	1.1	135	1	66	.1	34720	1	40	1	222
48379	194.27	196.00	1.73	-	-	60	-	-	2.1	80	1	25	9.6	24910	17	105	1	1601
48380	196.00	197.00	1.00	-	-	49	-	-	1.8	24	8	127	.1	33770	9	69	6	78
48381	197.00	198.00	1.00	-	-	50	-	-	1.6	22	5	152	.1	32050	8	55	4	122
48382	198.00	199.00	1.00	-	-	24	-	-	.4	10	9	96	.1	30930	4	35	1	59
48383	199.00	200.00	1.00	-	-	77	-	-	1.4	17	30	99	.1	32290	6	60	3	35
48384	200.00	201.95	1.95	-	-	75	-	-	1.1	17	41	97	.1	31510	8	55	3	26
48385	201.95	203.30	1.35	-	-	81	-	-	1.5	86	52	79	.7	35010	8	59	3	34
48386	203.30	204.00	.70	-	-	75	-	-	1.9	16	1	98	.1	28960	3	53	1	117
48387	204.00	205.00	1.00	-	-	2	-	-	1.0	16	1	60	.1	35220	1	13	1	109
48388	205.00	206.00	1.00	-	-	41	-	-	1.6	11	1	41	.1	59460	1	9	1	255
48389	206.00	207.00	1.00	-	-	57	-	-	1.0	8	1	56	.1	45390	11	10	1	103
48390	207.00	208.00	1.00	-	-	18	-	-	1.1	5	1	60	.1	31010	1	13	1	153
48391	208.00	209.00	1.00	-	-	4	-	-	1.0	14	1	73	.1	28190	1	50	1	221
48392	209.00	210.00	1.00	-	-	2	-	-	1.2	35	1	84	3.4	30900	5	16	1	768
48393	210.00	212.00	2.00	-	-	8	-	-	.8	33	1	77	.1	37300	5	39	1	296
48394	212.00	213.00	1.00	-	-	11	-	-	.4	9	1	83	.1	40800	6	57	1	100
48395	213.00	215.00	2.00	-	-	4	-	-	.7	7	24	131	.4	28690	7	31	1	33
48396	215.00	217.00	2.00	-	-	3	-	-	1.3	10	1	62	.1	42440	5	15	1	59
48397	217.00	217.95	.95	-	-	37	-	-	.9	6	1	53	.1	32680	4	12	1	111
48398	217.95	219.00	1.05	-	-	45	-	-	1.3	8	1	70	.1	35910	4	22	1	66
48399	219.00	220.00	1.00	-	-	58	-	-	1.3	11	1	73	.1	33050	9	59	1	93
48400	220.00	220.00	.00	-	-	42	-	-	1.3	13	16	93	.1	31330	2	46	3	36
48401	220.00	223.19	3.19	-	-	36	-	-	1.2	12	13	85	.1	27550	4	41	3	33
48402	223.19	224.95	1.76	-	-	44	-	-	1.2	9	1	77	.1	32650	4	25	1	62

COMP:· COASTAL MTN.ENGRG.
PROJ: SIB
ATTN: M.REBAGLIATI/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-24

FILE NO: 0S-0581-RJ1+2
DATE: 90/10/05
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48277 B	1.0	7620	88	11	79	.4	2	9990	.9	9	22	32090	1540	6	6280	740	1	270	1	1820	64	1	7	1	1	61.3	156	1	2	1	11	300
48278 B	1.6	6140	125	7	90	.3	2	13320	1.9	10	30	32570	1750	4	5070	672	1	360	1	1730	68	4	9	1	1	44.9	205	1	1	1	42	189
48279 B	.7	9070	91	7	71	1.0	3	8190	.1	12	9	38790	1800	6	7510	792	1	260	1	2110	33	1	8	1	1	66.6	47	1	2	1	16	328
48280 B	1.1	4000	33	7	96	1.0	2	16060	.4	10	7	32970	2130	2	6940	1128	1	190	1	1970	26	5	16	1	1	31.7	66	1	2	1	20	21
48281 B	.9	3680	105	11	294	1.2	2	16270	.1	9	4	34260	2680	1	6160	917	1	90	1	2020	36	4	16	1	1	18.7	43	1	1	1	16	96
48282 B	.5	4300	70	9	134	1.1	1	7520	.2	12	11	39540	2330	1	4380	540	1	230	1	2000	23	7	11	1	1	32.8	32	1	1	2	35	38
48283 B	.8	5590	52	7	142	.6	3	9060	.1	16	7	46910	1550	3	4880	581	1	1000	1	2830	39	3	14	1	1	65.0	48	1	1	2	23	79
48284 B	1.1	4960	113	8	122	1.0	2	11600	.1	14	9	36820	2400	2	4930	622	3	790	1	2200	41	3	14	1	1	39.4	46	1	1	2	35	122
48285 B	1.3	7980	90	6	157	.5	3	13740	.5	13	20	47070	1990	5	7900	1151	2	270	1	2050	44	6	15	1	1	72.5	119	2	2	1	29	121
48286 B	.8	7800	58	7	132	1.2	1	15130	.1	12	12	39020	3260	3	8330	1202	1	230	1	2070	32	4	11	1	1	38.0	71	1	1	1	30	61
48287 B	.7	5510	56	9	495	.5	2	13280	.1	11	5	29520	3680	1	3980	1007	2	70	1	1740	31	4	10	1	1	14.2	50	1	1	2	39	43
48288 B	1.1	4320	94	7	260	1.1	2	11920	1.7	11	9	32810	2660	1	6080	950	3	260	1	1520	43	6	12	1	1	18.2	79	1	1	1	46	382
48289 B	1.0	4600	60	7	126	1.2	2	14730	.1	12	13	40350	2800	1	10010	1449	2	200	2	1650	41	7	12	1	1	21.0	68	1	1	1	15	74
48290 B	1.2	3860	65	7	93	1.4	1	19950	.2	11	5	36380	2590	1	9350	1543	1	110	1	1660	32	4	12	1	1	16.3	53	1	2	1	15	36
48291 B	1.1	5710	53	7	290	1.1	3	12620	.1	12	10	38880	3060	1	8830	1291	1	400	1	1820	35	6	12	1	1	27.0	57	1	1	1	25	33
48292 B	1.4	5780	51	8	104	1.1	2	16140	.1	12	31	40370	3280	1	8990	1514	2	340	1	1710	46	20	18	1	1	28.3	103	1	1	1	33	31
48293 B	1.3	6700	37	6	191	.8	2	9130	.1	9	12	26580	3840	1	4090	814	3	210	1	1150	37	8	9	1	1	15.9	27	2	1	1	34	47
48294 B	1.5	4090	91	6	458	.6	3	13090	.4	14	21	28380	2910	1	3900	756	4	80	1	1000	41	14	14	1	1	10.9	85	1	1	1	28	69
48295 B	1.0	5050	69	4	193	1.0	2	2760	.4	27	17	24380	3180	1	1320	279	7	110	3	870	37	13	5	1	1	15.0	87	1	1	1	19	56
48296 B	.4	9620	36	7	161	1.9	2	4990	.1	16	24	56300	2450	6	6580	1416	8	240	1	1340	37	12	7	1	1	55.2	133	1	2	1	11	8
48297 B	.7	6140	19	6	136	1.3	2	11190	.9	9	13	37260	2680	2	6050	1442	1	280	1	1440	26	8	10	1	1	35.1	88	1	2	1	31	27
48298 B	.4	12050	13	5	93	1.1	2	6100	.1	12	9	37640	1300	8	6380	1295	1	340	1	1520	37	1	8	1	1	67.3	77	2	1	1	21	12
48299 B	.5	13980	10	3	90	1.3	2	6570	.1	11	17	37080	1200	9	5940	1208	1	440	1	1300	30	1	7	1	1	73.7	88	2	2	2	32	53
48300 B	.4	15710	1	4	351	1.3	3	5860	.1	11	15	36700	1710	10	6770	1304	1	1100	3	1340	38	1	6	1	1	83.4	111	2	1	2	41	3
48301 B	.7	16270	13	4	66	1.0	3	8450	.1	11	39	40150	760	10	7090	1477	1	430	1	1380	28	1	7	1	1	96.4	113	3	1	1	22	20
48302 B	.5	16250	12	4	141	1.3	3	9280	.1	10	8	33770	2180	9	5690	1289	1	410	1	1320	29	1	7	1	1	53.2	82	3	1	1	28	11
48303 B	.8	17480	1	3	135	1.1	3	18180	.1	11	16	38930	1720	10	6120	1618	1	320	1	1300	37	1	4	1	1	46.0	99	2	1	1	2	14
48304 B	1.0	16020	1	3	167	.9	2	16680	.1	9	30	32940	2340	7	4550	1267	1	480	1	1470	28	1	5	1	1	40.1	66	2	1	1	11	2
48305 B	.5	17410	1	4	130	.8	3	13180	.1	11	21	40910	1500	9	6020	1510	1	340	1	1330	25	1	9	1	1	51.8	152	1	1	1	4	3
48306 B	.8	16350	1	3	139	1.0	3	20600	.1	12	16	39460	1730	7	4710	1588	1	250	1	1480	19	1	16	1	1	37.6	80	1	1	1	1	3
48307 B	.5	18240	6	12	138	1.4	3	20430	.1	13	19	44970	1860	7	5520	1650	1	220	1	1580	29	1	6	1	1	38.3	81	2	1	1	1	2
48308 B	.6	16510	1	9	143	.9	4	21060	.1	12	12	41600	2050	6	4980	1561	1	260	1	1410	21	1	5	1	1	40.0	72	3	1	1	1	1
48309 B	.1	19310	1	8	117	1.9	3	11030	.1	15	27	47560	1760	7	5900	1570	1	130	1	860	34	1	6	1	1	38.4	101	1	1	1	1	1
48310 B	.5	19730	1	7	134	1.6	3	15580	.1	14	21	46990	2100	7	5550	1605	1	170	1	1120	18	1	5	1	1	40.1	99	2	2	1	1	1
48311 B	.3	17390	1	6	131	1.0	3	17760	.1	13	20	40980	2150	6	4770	1468	1	200	1	1240	19	1	3	1	1	39.1	90	1	1	1	1	2
48312 B	.4	15870	1	6	147	1.8	3	17870	.1	14	14	44490	2440	7	5290	1429	1	190	1	1090	30	1	4	1	1	35.9	89	1	1	1	1	1
48313 B	.3	18810	1	6	116	1.5	3	16950	.1	15	19	46050	2040	8	5180	1534	1	180	1	1200	25	1	1	1	1	41.1	104	1	1	1	1	2
48314 B	.1	21150	1	6	102	1.5	3	9550	.1	16	34	50690	1920	9	5500	1585	1	180	1	1380	18	1	3	1	1	46.2	126	1	1	1	1	1
48315 B	.1	19180	1	5	98	1.9	2	3150	.6	13	10	47150	1950	9	5270	1319	1	80	1	420	15	1	3	1	1	39.7	88	1	2	1	1	5
48316 B	.1	18340	1	6	197	1.6	3	2050	.1	17	26	51150	2630	11	5690	1274	1	120	1	410	18	1	5	1	1	33.2	87	1	1	1	1	1
48317 B	.1	14140	1	5	142	2.0	3	1790	.1	15	11	47540	2330	9	7030	1323	1	100	1	220	23	1	2	1	1	26.5	64	1	1	1	1	2
48318 B	.8	4280	73	4	153	1.2	2	7460	2.8	8	34	29690	1830	2	5570	797	2	130	1	480	53	5	6	1	1	12.0	79	1	1	1	18	142
48319 B	.6	6700	25	4	133	1.1	2	4900	.5	7	7	22130	2810	3	4740	511	1	300	1	600	36	1	4	1	1	15.5	372	1	1	1	34	16
48320 B	.6	4290	53	3	90	1.0	2	4910	.4	5	7	17110	1990	1	3270	322	1	240	1	400	33	2	3	1	1	10.3	28	1	1	1	41	1
48321 B	1.2	7370	62	5	253	1.3	2	8530	.1	13	11	31270	2220	4	6730	685	2	220	2	510	40	3	4	1	1	25.7	59	1	1	1	16	22
48322 B	1.4	7960	67	4	107	1.4	2	18620	.1	8	15	33190	2060	4	5040	748	2	190	1	470	44	3	3	1	1	14.8	59	1	2	1	11	15
48323 B	1.5	10510	1	4	93	1.4	2	22160	3.0	8	13	31450	2370	5	6560	911	2	140	1	510	34	1	2	1	1	15.1	108	1	1	1	3	16
48324 B	1.4	17510	27	5	94	1.7	2	11500	.1	14	12	47690	2170	11	8700	836	3	180	1	650	42	1	3	1	1	35.5	68	1	2	1	5	37
48325 B	1.4	14820	40	4	92	.8	3	16860	.1	11	12	41290	2180	9	8040	744	1	120	1	640	43	1	5	1	1	21.2	73	1	1	1	13	76
48326 B	1.3	9190	104	3	108	1.4	2	4580	1.2	10	16	31340	2350	5	3910	288	3	200	1	530	55	3	3	1	1	13.8	63	1	1	1	15	122
48327 B	1.3	7060	72	3	97	.6	2	12440	.1	8	12	26860	1560	4	3910	420	4	170	1	420	59	3	1	1	1	11.8	38	1	1	1	11	86
48328 B	3.2	3690	84	4	148	1.3	3	13200	1.1	18	46	36510	2170	1	2450	418	8	160	3	490	96	12	5	1	1	16.7	172	1	2	2	55	97
48329 B	.5	10730	18	3	70	1.2	2	6840	.1	12	8	32290	1460	7	6510	644	1	200	1	490	28	1	1	1	1	43.7	69	1	1	1	14	46
48330 B	1.1	8620	86	25	71	1.3	2	18710	.1	9	7	31040	1480	6	5570	797	2	210	1	640	38	1	2	1	1	27.2	37	1	1	1	16	2
48331 B	2.5	3510	95	5	151	1.0	2	11740	9.3	12	326	39550	1700	3	7040	808	3	80	1	490	343	45	8	1	1	17.9	1085	1	2	1	21	102
48332 B	.9	5650	83	3	82	.5	2	6510	1.1	11	17	28150	1880	3	5120	559	1	160	1	660	58	6	4	1	1	18.6	105	1	1	1	19	43
48333 B	2.3	3410	130	5	140	1.0	3	11740	7.3	12	318	39350	1610	3	6900	804	4	80	1	470	378	45	9	1	1	17.1	1090	1	1	1	18	42
48334 B	1.7	3640	83	5	94	1.8	2	4030	.1	15	39	57890	2080	1	4310	394	1	40	1	340	63	12	8	1	1	9.8	97	1	2	1	1	39
48335 B	2.0	2610	200	3	78	1.3	2	7450	2.7	9	14	32200	1510	1	2580	260	2	100	1	500	56	10	3	1	1	6.2	42	1	1	1	1	163
48336 B	2.6	6830	112	6	122	1.4	3	30080	1.9	10	24	41750	1890	5	8310	1008	1	80	1	640	54	10	10	1	1	20.9	210	1	2	1	7	60

COMP: COASTAL MTN.ENGRG.
PROJ: S1B
ATTN: M.REBAGLIATI/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-24

FILE NO: OS-0581-RJ3+4
DATE: 90/10/05
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48337 B	1.9	4860	7	9	76	.9	2	12490	.4	11	12	26770	1920	3	6250	420	2	130	2	980	41	7	6	1	1	16.7	44	1	1	1	20	31
48338 B	2.6	5530	31	7	81	1.6	2	18780	.1	9	23	29970	2030	3	6560	463	4	120	6	1010	43	7	9	1	1	11.3	72	1	1	1	5	36
48339 B	1.9	3170	26	7	81	1.1	2	18320	.1	10	25	33790	2110	1	7280	423	3	110	7	1050	39	11	11	1	1	8.9	80	1	2	1	3	41
48340 B	2.4	4850	30	6	75	1.4	2	44390	.1	10	21	33060	2040	3	7420	923	2	120	5	960	45	8	11	1	1	14.6	75	1	2	1	9	25
48341 B	2.0	6670	4	5	93	1.3	1	26980	.1	11	44	37310	2040	5	7280	603	3	120	3	930	39	5	12	1	1	16.7	176	1	2	1	4	42
48342 B	1.8	4070	37	7	133	1.0	3	23390	.1	13	30	42510	2370	2	8870	662	1	130	6	900	46	12	15	1	1	17.4	86	1	2	1	1	18
48343 B	1.5	4520	17	6	139	1.7	2	14180	.1	14	28	46430	2740	1	9540	609	2	130	7	1110	49	12	12	1	1	14.8	73	1	2	1	4	3
48344 B	1.4	3570	27	6	140	1.0	3	16640	.1	13	37	42500	2200	1	9800	595	2	100	5	1060	44	14	9	1	1	13.6	80	1	2	1	1	4
48345 B	1.7	6170	12	5	102	1.5	2	20690	.1	12	28	37950	2120	4	8840	612	4	100	6	1020	48	11	11	1	1	17.7	81	1	1	1	2	60
48346 B	1.9	9130	27	5	135	1.3	3	42070	.1	10	21	34570	2320	7	8230	1094	2	110	8	960	36	9	19	1	1	19.5	75	1	1	1	8	4
48347 B	1.7	6450	27	6	88	.9	3	29470	.1	12	41	42960	2280	3	8130	857	1	100	1	920	50	10	19	1	1	17.3	83	1	2	1	3	21
48348 B	1.1	4780	16	6	101	1.4	2	17270	.1	11	33	30710	3030	1	7580	571	1	120	7	900	51	9	9	1	1	12.9	71	1	1	1	19	26
48349 B	1.3	4970	35	5	96	1.4	2	17290	.1	14	45	33990	2890	1	5750	513	2	80	5	990	65	14	10	1	1	10.8	87	1	1	1	12	40
48350 B	1.9	11090	2653	5	67	1.2	2	17110	42.9	11	32	40240	2060	8	7180	523	1	70	6	920	82	17	17	1	1	13.9	94	1	1	1	9	84
48351 B	1.6	10430	1580	5	81	1.4	3	10340	26.0	11	37	38460	2100	7	6760	389	3	90	6	1170	75	15	9	1	1	13.8	103	1	1	1	4	66
48352 B	2.1	8400	2262	5	78	1.5	1	19390	33.8	10	35	38000	2070	5	5990	606	2	130	2	1110	84	17	20	1	1	12.4	93	1	1	1	14	64
48353 B	2.3	6910	578	4	89	1.4	3	18070	11.5	11	40	36050	2030	4	6720	608	2	120	8	1240	77	17	17	1	1	12.6	116	1	1	1	16	110
48354 B	3.2	7360	547	5	98	1.1	3	16590	11.1	11	47	41290	2510	3	8450	625	3	100	9	1030	92	20	14	1	1	14.4	127	2	1	1	13	130
48355 B	2.0	7420	1078	4	157	1.1	2	21790	16.8	10	35	36400	2240	4	10050	638	4	110	10	1100	59	13	23	1	1	14.6	67	1	2	1	21	80
48356 B	2.0	6120	55	3	267	1.1	3	47030	.1	7	15	22630	2170	3	8790	1130	2	100	4	800	49	7	31	1	1	11.1	43	1	1	1	24	4
48357 B	2.0	12030	25	4	77	1.4	3	50720	.1	7	12	28380	1600	9	17220	1400	2	100	8	660	38	3	14	1	1	19.6	291	1	1	1	32	16
48358 B	1.9	11100	2	4	224	.9	2	53010	3.5	7	13	25930	1560	8	18950	1360	4	90	6	640	88	4	24	1	1	19.2	515	1	1	1	30	10
48359 B	1.0	7780	6	4	93	.6	2	13680	.1	8	18	28250	2180	5	11020	511	3	130	5	850	62	8	8	1	1	13.8	186	1	1	1	23	35
48360 B	2.1	4530	14	4	124	1.3	2	12220	.1	9	28	32850	2540	1	8440	526	2	90	7	870	63	16	11	1	1	9.3	107	1	1	1	8	80
48361 B	1.8	9290	20	5	126	1.6	2	9680	.1	9	24	30770	2500	6	8450	506	5	130	9	900	48	11	8	1	1	14.8	107	1	1	1	25	60
48362 B	2.1	11210	3	4	99	1.3	3	4550	.1	10	33	39420	2250	9	7300	383	9	140	8	840	64	11	7	1	1	17.1	78	1	1	1	23	79
48363 B	2.3	8950	22	3	131	1.0	3	14330	.1	9	30	37220	1940	6	10290	721	5	130	1	950	82	13	13	1	1	25.3	81	1	1	2	38	65
48364 B	.7	22060	1	4	82	1.8	2	5600	.1	12	13	48560	1530	20	19340	980	6	40	4	630	55	1	6	1	1	51.0	210	1	2	1	42	21
48365 B	1.1	10110	7	3	69	.9	2	15040	.1	8	18	26090	1450	9	11600	683	3	70	7	740	56	5	11	1	1	18.7	71	1	1	1	33	42
48366 B	1.2	10540	2	4	74	.8	2	12800	.1	9	14	26890	1770	8	13000	693	4	80	6	880	60	5	13	1	1	17.1	47	1	1	1	22	41
48367 B	2.3	5590	1	9	120	.7	2	48770	.1	5	35	17810	910	5	33220	2145	3	60	6	320	85	7	75	1	1	15.7	48	1	1	1	68	43
48368 B	1.2	9160	1	6	56	.5	2	14560	.6	11	22	30400	890	8	12530	873	4	120	3	700	66	6	15	1	1	50.3	105	1	1	1	35	57
48369 B	2.0	26070	1	6	56	1.2	2	7730	8.4	10	233	41860	870	25	35580	1271	1	40	1	490	803	6	7	1	1	62.1	1857	1	2	1	57	22
48370 B	1.5	11610	34	5	74	1.5	1	3380	.7	10	104	33040	1620	9	10780	559	6	130	4	750	147	9	6	1	1	42.3	410	1	1	1	53	44
48371 B	.8	14360	3	5	105	1.0	2	6250	.1	10	26	42800	1300	12	13470	867	2	120	3	730	78	6	7	1	1	59.0	116	1	2	1	46	80
48372 B	.6	10530	25	3	84	.6	2	3970	.1	8	15	29280	1100	9	9660	677	2	210	2	680	53	2	5	1	1	60.0	33	2	1	2	75	56
48373 B	1.0	18130	63	3	56	1.4	3	3680	1.5	8	46	34260	800	16	23680	922	8	150	1	600	84	1	4	1	1	56.3	514	2	2	1	78	140
48374 B	2.3	6340	37	2	45	.3	2	33830	.6	7	145	14220	490	6	17550	811	21	60	4	120	116	17	14	1	1	19.9	237	1	1	2	132	60
48375 B	1.2	10030	42	3	72	.9	3	6570	.8	9	19	25820	1010	8	12510	620	7	160	9	710	48	5	7	1	1	42.3	48	1	1	2	81	85
48376 B	3.0	5530	91	3	143	.6	2	7820	16.8	8	671	28470	1170	4	7860	457	7	130	7	750	2613	15	14	1	1	19.7	3128	1	2	1	46	64
48377 B	1.4	20180	1	3	67	1.9	2	8180	.1	9	325	28640	1040	21	33620	1036	1	50	4	540	39	1	10	1	1	38.6	111	1	2	1	53	40
48378 B	1.1	27070	1	4	66	1.8	2	7780	.1	9	135	34720	810	31	44640	1326	1	30	5	530	40	1	9	1	1	60.2	222	1	2	1	41	4
48379 B	2.1	20490	1	4	25	1.0	2	27950	9.6	9	80	24910	300	20	36000	1009	17	30	4	100	105	1	1	1	1	46.9	1601	1	2	1	85	60
48380 B	1.8	13730	8	3	127	1.2	3	6980	.1	11	24	33770	1240	12	17550	856	9	130	8	710	69	6	8	1	1	60.1	78	1	1	1	57	49
48381 B	1.6	13120	5	3	152	1.4	1	6220	.1	10	22	32050	1130	12	16790	798	8	100	4	650	55	4	6	1	1	55.7	122	1	1	1	45	50
48382 B	.4	15930	9	3	96	1.5	2	1980	.1	9	10	30930	2450	11	12480	695	4	40	1	260	35	1	2	1	1	26.1	59	1	1	1	20	24
48383 B	1.4	11670	30	3	99	1.4	2	2780	.1	9	17	32290	2210	7	8710	525	6	130	2	470	60	3	5	1	1	19.9	35	1	1	1	29	77
48384 B	1.1	9660	41	3	97	1.8	2	1690	.1	11	17	31510	2170	6	6560	311	8	70	3	520	55	3	5	1	1	17.6	26	1	1	1	6	75
48385 B	1.5	11940	52	3	79	1.3	3	1800	.7	12	86	35010	2000	9	10070	427	8	80	4	470	59	3	4	1	1	20.9	34	2	1	1	18	81
48386 B	1.9	14630	1	3	98	1.8	1	14330	.1	10	16	28960	1770	12	20730	893	3	70	1	480	53	1	15	1	1	29.4	117	1	2	1	36	75
48387 B	1.0	28240	1	3	60	1.6	2	7960	.1	10	16	35220	1060	27	43210	1146	1	30	1	650	13	1	7	1	1	64.7	109	1	2	1	37	2
48388 B	1.6	46370	1	5	41	2.0	3	19450	.1	17	11	59460	600	49	64870	1869	1	20	1	310	9	1	22	1	1	110.3	255	1	3	1	18	41
48389 B	1.0	31190	1	4	56	2.0	3	11010	.1	14	8	45390	750	32	44720	1314	11	50	1	410	10	1	10	1	1	90.5	103	1	2	1	33	57
48390 B	1.1	21330	1	3	60	1.7	2	18920	.1	11	5	31010	1040	20	38880	1236	1	40	2	610	13	1	20	1	1	52.6	153	1	2	1	25	18
48391 B	1.0	18770	1	3	73	1.8	2	17060	.1	12	14	28190	1360	20	33690	1035	1	30	2	780	50	1	17	1	1	37.8	221	1	2	1	39	4
48392 B	1.2	24210	1	3	84	1.3	2	10980	3.4	10	35	30900	800	22	36690	999	5	60	1	500	16	1	4	1	1	61.3	768	1	2	1	40	2
48393 B	.8	20020	1	3	77	1.3	2	4740	.1	10	33	37300	1200	18	24050	787	5	40	1	380	39	1	4	1	1	52.2	296	1	1	1	24	8
48394 B	.4	23400	1	3	83	2.3	3	3140	.1	15	9	40800	1890	17	25830	732	6	30	1	610	57	1	3	1	1	47.3	100	1	1	1	22	11
48395 B	.7	12870	24	2	131	1.6	2	2830	.4	10	7	28690	1610	9	11970	430	7	30	4	340	31	1	3	1	1	22.3	33	1	1	1	28	4
48396 B	1.3	25370	1	3	62	2.2	2	30070	.1	12	10	42440	1080	22	34690	1174	5	20	1	390	15	1	28	1	1	62.4	59	1	2	1	18	3

COMP: COASTAL MTN.ENGRG.
PROJ: SIB
ATTN: M.REBAGLIATI/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-24

FILE NO: 0S-0581-RJ5
DATE: 90/10/05
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48397 B	.9	25490	1	11	53	1.7	2	13150	.1	10	6	32680	870	23	38990	803	4	20	1	430	12	1	7	1	1	58.1	111	1	2	1	57	37
48398 B	1.3	24020	1	8	70	1.4	2	8730	.1	12	8	35910	1130	22	34890	793	4	20	1	610	22	1	8	1	1	60.3	66	1	2	1	41	45
48399 B	1.3	17150	1	7	73	1.4	2	8810	.1	12	11	33050	940	15	25260	648	9	40	2	610	59	1	10	1	1	67.8	93	1	2	1	54	58
48400 B	1.3	11120	16	6	93	1.2	2	10050	.1	12	13	31330	1730	9	14870	541	2	30	3	740	46	3	9	1	1	43.0	36	1	1	1	40	42
48401 B	1.2	8500	13	11	85	.5	1	12410	.1	10	12	27550	1570	7	12400	516	4	40	5	740	41	3	9	1	1	34.1	33	1	1	1	43	36
48402 B	1.2	18420	1	5	77	1.5	3	9770	.1	12	9	32650	1180	18	27040	705	4	20	2	680	25	1	9	1	1	62.9	62	1	2	1	40	44

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-25

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 104B/9	CLAIM #	: SIB 10		
LOCAL GRID	: 9191.88 N / 9975.34 E	GLOBAL GRID	: 13423.51 N / 18139.34 E	ELEVATION	: 1134.46 metr
LENGTH	: 179.22 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 297.0 degree
OVERBURDEN	: 3.40 m	CASING	: 3.40 metres	ASSAYING BY	: Min-En Labs
LOGGED BY	: Guy LePage	DRILLED BY	: J.T.Thomas	CORE LOCATION	: 101+00 N, 98
DATE LOGGED	: 1990/09/21 Y/M/D	DATE DRILLED	: 1990/09/19 Y/M/D	SAMPLE NO. SERIES	: 48403-48492

ACID TESTS

Depth	Dip	Azimuth
148.74	-43.5	297.0

SUMMARY LOG 90-25

From(m)	To(m)	Field Name (Legend)
0.00	3.40	CASING
3.40	26.90	LAPILLI FRAGMENTAL (UNIT 11)
26.90	42.49	ALBITIZED-SILICIFIED TUFF (UNIT 11)
42.49	44.60	ARGILLACEOUS SILTSTONE TO MUDSTONE (UNIT 12)
44.60	45.20	TUFFACEOUS LAPILLI FRAGMENTAL (UNIT 11)
45.20	46.43	ARGILLACEOUS SILTSTONE TO MUDSTONE (UNIT 12)
46.43	50.32	TUFFACEOUS LAPILLI FRAGMENTAL (UNIT 11)
50.32	50.46	ARGILLACEOUS MUDSTONE (UNIT 12)
50.46	52.19	ALTERED TUFFACEOUS FRAGMENTAL (UNIT 11)
52.19	53.31	LAPILLI FRAGMENTAL(CONGLOMERATE) (UNIT 13)
53.31	55.17	ARGILLACEOUS SILTSTONE (UNIT 12)
55.17	73.85	ARGILLACEOUS SANDSTONE WITH INTERBEDDED SILTSTONE-MUDSTONE (UNIT 14)
73.85	75.50	VOLCANIC FRAGMENTAL (UNIT 11)
75.50	81.36	ARGILLACEOUS MUDSTONE (UNIT 12)
81.36	85.00	SERICITIZED LAPILLI FRAGMENTAL (UNIT 11)
85.00	95.36	ASH TUFF (UNIT 11)
95.36	114.68	WELDED TUFF+-FRAGMENTALS (UNIT 11)
114.68	119.55	ARGILLACEOUS MUDSTONE grading to SILTSTONE +-WACKE (UNIT 15)
119.55	129.10	WACKE (+-MUDSTONE/SILTSTONE) (UNIT 15)
129.10	130.00	SERICITIZED TUFF (UNIT 11)
130.00	163.76	ARGILLACEOUS MUDSTONE TO SILTSTONE (UNIT 12)
163.76	179.22	SILICIFIED FELSIC FRAGMENTAL (UNIT 21)
179.22		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-25

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
36.00	39.00	3.00	0.013			
58.00	61.00	3.00	0.012			

From(m)	To(m)	Description
0.00	3.40	CASING
3.40	26.90	LAPILLI FRAGMENTAL (UNIT 11) Composition Lapilli: 40 to 50%. Euhedral to subhedral sericitized plagioclase phenocrysts average 1.5 to 2 mm in length set in a grey to green black aphanitic plagioclase rich groundmass. Fragments range from 2 to 3 mm up to 60 mm(average 15 to 20 mm) in width, angular, frequent preferred orientation Structure Jointing: 60 degrees to core axis. Less commonly 20 to 30 degrees to core axis. Alteration Sericite: Moderate to Strong. On plagioclase phenocrysts. Some fragments show patchy alteration. Epidote: Weak. Pervasive in some volcanic fragments. Mineralization Pyrite: 1 to 2%. Finely disseminated specs in volcanic fragments and occasional blebs.
26.90	42.49	ALBITIZED-SILICIFIED TUFF (UNIT 11) Plagioclase Phenocrysts: Euhedral to subhedral , average 1 to 2 mm in length, strongly sericitized throughout. Composition Groundmass: Dark grey to green black, aphanitic,plagioclase rich. Fragments: Interbedded with tuffs. Angular, tufffaceous, average 10 to 15 mm(range 2 to 20 mm). Sub-Intervals <26.90>-<33.24>: Strong albite+sericite alteration(70 to 80%), fracture distructive. Bedding oriented at 70 to 80 degrees to core axis. Pale green alteration forms 10% of the unit. Pyrite 0.5 to 1.0% as blebs, disseminated and veins(1 to 5 mm, average 2 to 3 wide) at 50-60 degrees to core axis(frequency >20 per metre)+-chlorite. Bedding at 60 degrees to core axis. Iron carbonate veins at 80 degrees to core axis. <33.24>-<39.00>: Albite tuff(60 to 65%) interbedded with dark grey tuff interbedded volcanic fragmentals, all interbedded with minor

From(m) To(m) ----------Description----------

chloritic and siliceous layers. Jointing oriented parallel to bedding at 65 degrees to core axis. Pyrite(1 to 2%) as medium-coarse blebs and as dicontinuous veins(2 to 3mm, average 1 mm wide) parallel to degrees to core axis+-chlorite. Fining downhole.

<39.00>-<42.49>: Unaltered melano-mesocratic tuff with interbedded fragmental horizons. Bedding oriented at 70 to 80 degrees to core axis with fining downhole. Pyrite(1 to 2%) as blebs, disseminations, clusters and laminations oriented parallel to bedding. Fragments(2 to 30 mm, average 10 to 15) show preferred oriented parallel to bedding. Varied albite, epidote sericite alteration.

42.49 44.60 ARGILLACEOUS SILTSTONE TO MUDSTONE (UNIT 12)

Composition
Lithology: Black argillaceous siltstone grading to mudstone(fining downhole).
Structure
Jointing: 70 to 80 degrees to core axis.
Bedding: 70 to 80 degrees to core axis.
Mineralization
Pyrite: Trace to 1%. Fine grained disseminations and occasional blebs.

44.60 45.20 TUFFACEOUS LAPILLI FRAGMENTAL (UNIT 11)

Composition
Groundmass: Black to grey black, plagioclase rich.
Clasts: Volcanic, sub-rounded to sub-angular(2 to 50 mm, average 15 to 20 mm in length. Preferred orientation of long axis defines a bedding plane of 70 to 80 degrees to core axis. Consist of porphyry phase of euhedral to subhedral plagioclase phenocrysts average 1 to 2 mm in length(30 to 35%) set in a fine grained plagioclase rich groundmass.
Structure
Jointing: 70 to 80 degrees to core axis. Parallel to bedding.
Alteration
Albite: Strong. In volcanic clasts.
Mineralization
Pyrite: 1 to 3%. Blebs, disseminations and clusters oriented parallel to bedding. Occasional veins oriented at varied degrees to core axis and varied width(frequency 10 per metre).

From(m)	To(m)	Description
45.20	46.43	ARGILLACEOUS SILTSTONE TO MUDSTONE (UNIT 12) Composition Lithology: Similar to 42.49 to 44.60 metres.
46.43	50.32	TUFFACEOUS LAPILLI FRAGMENTAL (UNIT 11) Composition Lithology: Similar to 44.60 to 45.20 metres. Fining downhole. Volcanic fragments show varying degrees of albite-sericite alteration and silicification being white to green to blue white in color.
50.32	50.46	ARGILLACEOUS MUDSTONE (UNIT 12) Composition Lithology: Similar to 45.20 to 46.43 metres.
50.46	52.19	ALTERED TUFFACEOUS FRAGMENTAL (UNIT 11) Plagioclase Phenocrysts: Strongly sericite altered, euhedral to subhedral, average 0.5 mm in length. Composition Lithology: The interval consists of alternating layers of siliceous chloritic and albitic alteration at 60 degrees to core axis, 1 to 20 mm in width(average 8 to 10 mm). Groundmass: Pale green to dark green, siliceous.
52.19	53.31	LAPILLI FRAGMENTAL(CONGLOMERATE) (UNIT 13) Composition Matrix: 20 to 30%. Supporting fragments, plagioclase-chlorite assemblege. Fragments: Volcanic, silicified sericitized, rounded to sub-rounded, plagioclase porphyry in composition, 5 to 70 mm in width(average 30mm) set in a fine grained plagioclase rich groundmass. Mineralization Pyrite: 1 to 2%. Euhedral blebs and minor randomly oriented discontinuous veinlets. Veins Iron carbonate Veining. Core axis angle 70 to 80 degrees. Minor, 0.5 to 15 mm in width(average 0.8mm).

From(m)	To(m)	Description
53.31	55.17	ARGILLACEOUS SILTSTONE (UNIT 12) Composition Lithology: Well bedded siltstone interbedded with minor argillaceous laminations at 45 to 50 degrees to core axis. Mineralization Pyrite: 1 to 2%. Blebs and towards 54.25 pyrite occurs as fine grained disseminated specks.
55.17	73.85	ARGILLACEOUS SANDSTONE WITH INTERBEDDED SILTSTONE-MUDSTONE (UNIT 14) Composition Sandstone: well bedded to massive, quartz/felsic rich beds interbedded with minor argillaceous horizons at 45 to 50 degrees to core axis. Siltstone: 40%. Along with mudstone. Similar to above descriptions(elongate. 42.49 to 44.60 m.). Interbedded with minor argillaceous units. Structure Bedding: 40 to 45 degrees to core axis. Graded and flame structures indicate way u downhole. Jointing: 40 to 45 degrees to core axis. Parallel to bedding. Mineralization Pyrite: 1 to 3%. Fine grained disseminations and blebs, occasional veins at 45 to 50 degrees to core axis (1 to 12 mm in width, average 10 mm). In siltstone-mudstone intervals as fine grained disseminations, blebs and veins(1 to 15 mm in width, average 8 mm) with frequency of 1 to 2 per metre. Galena: Trace. In a pyrite vein at 66.85 metres. Sub-Intervals <69.29>-<69.69>: FAULT. Upper contact and lower contact at 40 degrees to core axis, strongly gauged with numerous calcite-iron carbonate and quartz veins at 40 to 45 degrees to core axis.
73.85	75.50	VOLCANIC FRAGMENTAL (UNIT 11) Composition Fragments: Greenish-pink, elongate to 18 mm, coarsening downhole. Mudstone: Minor, interbedded with unit, black argillaceous horizons(particularly towards the lower contact.

From(m)	To(m)	Description
		Structure Upper contact: 20 degrees to core axis. Lower contact: 45 to 50 degrees to core axis. Mineralization Pyrite: 1 to 2%. Fine grained disseminated and rare blebs.
75.50	81.36	ARGILLACEOUS MUDSTONE (UNIT 12) Composition Mudstone: Black, aphanitic, argillaceous, grading to silty well laminated mudstone. Structure Bedding: 70 degrees to core axis. Toward the upper contact. Mineralization Pyrite: Trace. Fine grained disseminated specs and discontinuous lenses oriented parallel to the bedding. Veins Quartz-carbonate Veining. 40 and 60 degrees to core axis. 0.3 to 8 mm in width(average 2 to 3 m), frequency 15 per metre.
81.36	85.00	SERICITIZED LAPILLI FRAGMENTAL (UNIT 11) Composition Fragments: Lapilli size, sericitized, plagioclase porphyry, sub-rounded to sub-angular, many with preferred long axis alignment parallel to bedding at sub vertical to degrees to core axis. Matrix: Grey to dark grey, aphanitic, plagioclase rich(35 to 40%). Mineralization Pyrite: Trace. Euhedral blebs and occasional disseminations. Veins Quartz Veining. Crosscut, irregular, hairline, over 30 to 40 cm.
85.00	95.36	ASH TUFF (UNIT 11) Composition Groundmass: Light to greenish grey, fine grained, aphanitic, plagioclase rich. Plagioclase phenocrysts arsenopyrite euhedral to subhedral, sericitized(30 to35%), 0.3 to 0.8mm wide. Mineralization Pyrite: Trace.

From(m)	To(m)	Description
95.36	114.68	WELDED TUFF+-FRAGMENTALS (UNIT 11) Composition Tuff: 65%. Well bedded, interbedded with volcanic fragments, light to medium grey in color, fused plagioclase laths with a preferred orientation of clasts and minor angular argillaceous fragments oriented sub-vertical to 80 degrees to core axis. Graded bedding indicates fining downhole. Fragments: Heterolithic, ranging from black argillaceous to green sericitic volcanic clasts to plagioclase porphyry tuffaceous clasts to occasional siliceous fragments. Mostly sub-angular to angular with long axis defining a bedding plane from 70 to 80 degrees to core axis to sub- vertical. Up to 20 mm wide(average 15mm). Set in plagioclase rich sericite groundmass. Structure Jointing: 60 to 70 degrees to core axis. Alteration Sericite: Strong. Fragmental horizon appears to be annealed by pale green to greenish white aphanitic sericite-carbonate assemblege throughout enclosing sericitized fragments. Bleached: Weak. In tuffaceous horizons along with minor sericite alteration. Mineralization Pyrite: 1 to 3%. Mostly blebs and occasional disseminations and discontinuous veinlets(0.5 to 2.0 mm, average 0.8 to 1.0 mm in width) parallel to bedding, frequency 5 to 10 per metre. Sub-Intervals <95.36>-<95.88>: FAULT. Upper contact and lower contact at 60 to 70 degrees to core axis. Intruded by numerous iron carbonate and quartz veins parallel to contact. Locally gauged and brecciated.
114.68	119.55	ARGILLACEOUS MUDSTONE grading to SILTSTONE +-WACKE (UNIT 15) Composition Mudstone: Black, aphanitic, argillaceous, interbedded with minor silty horizons. Clasts: Occasional, silica, felsic and carbonate, average 4 to 5 mm in width. Structure Bedding: 75 to 80 degrees to core axis. Also sub-vertical. Mineralization Pyrite: Trace. Fine grained disseminations and occasional blebs with long axis oriented parallel to bedding.

From(m)	To(m)	Description
119.55	129.10	WACKE (+-MUDSTONE/SILTSTONE) (UNIT 15) Composition Clasts: Heterolithic from felsic to silicic, mudstone-argillite, long axis defines a bedding plane at 70 degrees to core axis. Plagioclase clasts average 2 to 3 mm in length are also prominent as a clasts supporting matrix. Clasts range from mm to 15 mm in length. Structure Jointing: 70 degrees to core axis. Parallel to bedding. Mineralization Pyrite: 3 to 5%. Mostly as fine grained disseminated specks and elongate blebs hose axis is aligned parallel to bedding.
129.10	130.00	SERICITIZED TUFF (UNIT 11) Plagioclase Phenocrysts: Euhedral , average 0.1 to 0.3 mm in length. Composition Gneissic: Fine grained, aphanitic, plagioclase rich. Alteration Sericite: Moderate. Overprinted by a pale green aphanitic alteration assemblege. Mineralization Pyrite: Trace to 1%. Galena: Trace. Veins Quartz Veining. Cross cut by translucent to transparent veins and stockwork(over 20 cm) enclosing pyrite and galena blebs.
130.00	163.76	ARGILLACEOUS MUDSTONE TO SILTSTONE (UNIT 12) Composition Mudstone: 80 to 85%. Black, argillaceous, well bedded at 70 to 80 degrees to core axis defined by alternating felsic and siliceous and pyritic layers. Sandstone: 30%. Brown to tan, medium grained, massive and undeformed, sharp contact with argillites at variable degrees to core axis. Structure Jointing: 60 to 80 degrees to core axis. Parallel to bedding.

From(m) To(m) ----------Description----------

Mineralization
Pyrite: 3 to 4%. Selvedges within quartz k-feldspar veins oriented mostly at 50 to 70 degrees to core axis(0.5 to 8mm, average width 2 to 3mm) with frequency of 5 to 50 per metre. Occasional blebs and disseminations.
Chalcopyrite: Trace. +sphalerite in minor quartz+-k-feldspar veins at 142.74 and 149.18 metres.
Veins and Sub-Intervals
<154.80>-<155.93>: FAULT. Locally gauged, contact unclear, towards upper contact is intense quartz iron carbonate veining at 20 to 25 degrees to core axis.
<157.00> : Quartz-pyrite Vein. Core axis angle 50 to 60 degrees. Marked increase in frequency(10 to 15 per metre), 5 to 40 mm in width(average 8 to 10 mm. Encloses brecciated fragments and slivers of argillite throughout.

163.76 179.22 SILICIFIED FELSIC FRAGMENTAL (UNIT 21)
Composition
Fragments: Felsic to siliceous, range from sub-round(towards the upper contact) to angular and elongate(towards the lower contact), black to grey-greenish brown to milky white with their long axis defining a bedding plane oriented at 55 degrees to core axis.
Matrix: 35 to 40%. Aphanitic, semi-translucent to milky siliceous assemblege. Minor argillaceous units towards 171.90 m are interbedded with the felsic fragmentals.
Structure
Jointing: 55 degrees to core axis. parallel to bedding.
Mineralization
Pyrite: Trace to 1%. Mostly as blebs and occasional disseminations.
Sub-Intervals
<163.76>-<168.00>: Felsic and quartzose fragments annealed with a creamish white soft clay(<1)-sericite?

179.22 END OF HOLE.

Hole No.: 90-25

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	3.40	3.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48403	3.40	7.00	3.60	-	-	76	-	-	.9	237	31	166	.1	33900	3	35	16	96
48404	7.00	10.00	3.00	-	-	13	-	-	.8	29	26	147	.1	34100	5	21	16	88
48405	10.00	13.00	3.00	-	-	18	-	-	.9	16	42	179	.1	35130	4	23	16	77
48406	13.00	16.00	3.00	-	-	21	-	-	1.1	19	37	171	.1	30200	5	19	16	48
48407	16.00	19.00	3.00	-	-	7	-	-	1.2	30	16	171	.1	32810	4	16	16	83
48408	19.00	22.00	3.00	-	-	45	-	-	.9	8	50	168	.1	34760	1	26	16	76
48409	22.00	25.00	3.00	-	-	31	-	-	1.2	7	82	145	.1	33350	3	20	16	69
48410	25.00	26.55	1.55	-	-	16	-	-	.9	9	43	346	.1	33240	2	20	15	76
48411	26.55	29.00	2.45	-	-	5	-	-	1.2	9	23	139	.2	28520	2	13	15	66
48412	29.00	32.00	3.00	-	-	65	-	-	1.6	16	48	144	.1	34640	3	26	20	47
48413	32.00	33.24	1.24	-	-	5	-	-	1.2	6	29	131	.1	22540	1	21	14	50
48414	33.24	36.00	2.76	-	-	260	-	-	1.5	8	110	194	.9	37460	4	63	29	128
48415	36.00	39.00	3.00	-	-	448	-	-	1.0	14	99	128	2.1	35670	3	105	26	134
48416	39.00	42.00	3.00	-	-	150	-	-	1.3	40	136	98	1.0	41830	3	35	30	69
48417	42.00	45.00	3.00	-	-	107	-	-	1.8	20	76	92	1.9	28690	5	49	19	23
48418	45.00	48.00	3.00	-	-	48	-	-	1.4	30	58	97	.7	49330	3	28	20	77
48419	48.00	51.00	3.00	-	-	56	-	-	1.2	41	253	123	4.3	37630	5	14	28	51
48420	51.00	52.19	1.19	-	-	35	-	-	.1	5	78	118	.1	48950	1	24	16	40
48421	52.19	55.17	2.98	-	-	72	-	-	1.6	14	54	93	.1	39440	2	28	19	29
48422	55.17	58.00	2.83	-	-	156	-	-	3.6	17	103	86	1.8	28540	10	51	22	17
48423	58.00	61.00	3.00	-	-	404	-	-	2.8	24	196	108	3.7	37860	2	63	21	79
48424	61.00	64.00	3.00	-	-	186	-	-	2.0	75	71	115	1.4	26710	4	134	19	39
48425	64.00	67.00	3.00	-	-	140	-	-	3.4	153	83	142	2.5	36850	3	206	29	324
48435	66.00	67.00	1.00	-	-	131	-	-	2.7	68	91	85	2.9	32110	3	98	22	576
48426	67.00	70.00	3.00	-	-	61	-	-	3.2	29	62	124	1.4	35600	3	53	24	68
48427	70.00	73.00	3.00	-	-	1	-	-	1.5	23	33	78	.1	35990	2	21	18	74
48428	73.00	76.00	3.00	-	-	6	-	-	2.0	50	50	110	.1	39260	5	34	24	76
48429	76.00	78.00	2.00	-	-	14	-	-	1.0	64	57	118	.4	46960	3	25	23	111
48430	78.00	81.00	3.00	-	-	10	-	-	.8	57	23	140	2.0	39430	7	28	21	102
48431	81.00	84.00	3.00	-	-	19	-	-	.3	6	15	645	.1	39240	1	20	17	65
48432	84.00	87.00	3.00	-	-	13	-	-	.5	15	13	160	.1	36940	3	9	16	75
48433	87.00	90.00	3.00	-	-	17	-	-	.4	58	20	110	.1	31110	3	29	14	66
48434	90.00	93.00	3.00	-	-	13	-	-	.3	10	27	117	.1	34520	3	24	6	48
48436	93.00	96.00	3.00	-	-	15	-	-	.3	7	11	106	.1	30110	2	29	4	86
48437	96.00	99.00	3.00	-	-	11	-	-	.7	13	6	1063	.2	28920	2	28	3	72
48438	99.00	102.00	3.00	-	-	6	-	-	.7	21	27	273	.1	40600	5	27	5	137
48439	102.00	105.00	3.00	-	-	7	-	-	.5	47	39	89	.1	38490	2	41	6	130
48440	105.00	108.00	3.00	-	-	11	-	-	.5	24	44	79	.1	49610	4	32	5	178
48441	108.00	111.00	3.00	-	-	6	-	-	.6	50	46	119	.1	44900	4	29	3	165
48442	111.00	114.00	3.00	-	-	4	-	-	.8	38	37	92	.1	44200	2	52	4	134
48443	114.00	117.00	3.00	-	-	17	-	-	1.3	24	21	85	.1	39600	8	40	9	123
48444	117.00	120.00	3.00	-	-	20	-	-	1.4	22	27	97	.1	34360	6	47	12	111
48445	120.00	123.00	3.00	-	-	32	-	-	1.2	16	78	119	.1	46230	10	42	10	104
48446	123.00	126.00	3.00	-	-	21	-	-	1.2	16	58	105	.1	44390	7	42	11	107
48447	126.00	129.19	3.19	-	-	33	-	-	1.9	21	73	123	.5	54420	13	44	13	124
48448	129.19	130.00	.81	-	-	13	-	-	1.5	56	102	36	.1	44100	9	122	7	190
48449	130.00	132.00	2.00	-	-	35	-	-	2.2	37	42	52	.1	35650	19	153	10	265
48450	132.00	134.00	2.00	-	-	32	-	-	2.0	32	52	51	.1	34710	28	40	12	345
48451	134.00	136.00	2.00	-	-	46	-	-	2.1	35	52	54	.1	40780	30	47	15	243

Hole No.: 90-25

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
48452	136.00	138.00	2.00	-	-	34	-	-	2.0	34	49	41	.1	37730	24	47	13	108
48453	138.00	140.00	2.00	-	-	33	-	-	1.9	52	72	31	.1	44410	17	45	7	271
48454	140.00	142.54	2.54	-	-	37	-	-	2.0	72	50	166	.1	50140	11	23	8	127
48475	142.54	143.50	.96	-	-	36	-	-	1.3	84	62	33	.1	53210	7	36	5	158
48476	143.50	144.50	1.00	-	-	38	-	-	2.0	86	81	43	.1	44660	13	45	8	125
48477	144.50	145.50	1.00	-	-	21	-	-	1.5	20	44	37	.1	44990	3	9	4	119
48478	145.50	146.50	1.00	-	-	24	-	-	1.9	226	96	17	.1	70310	1	21	8	266
48479	146.50	147.50	1.00	-	-	20	-	-	1.3	151	116	16	.1	59030	3	10	7	223
48480	147.50	148.50	1.00	-	-	22	-	-	1.0	26	51	23	.1	29890	12	20	3	116
48481	148.50	149.50	1.00	-	-	29	-	-	2.1	235	53	21	.1	54950	9	28	7	228
48482	149.50	152.00	2.50	-	-	33	-	-	1.8	72	61	27	.1	46440	21	47	9	206
48483	152.00	155.00	3.00	-	-	15	-	-	1.6	109	34	34	1.2	27730	17	44	9	328
48484	155.00	158.00	3.00	-	-	15	-	-	2.0	48	41	38	.1	23590	21	42	9	187
48485	158.00	160.00	2.00	-	-	14	-	-	.9	12	49	30	.1	24980	33	38	6	84
48486	160.00	162.00	2.00	-	-	10	-	-	1.8	48	42	57	.1	37290	26	61	15	268
48487	162.00	165.00	3.00	-	-	9	-	-	1.7	19	62	34	.1	13540	7	31	4	80
48488	165.00	168.00	3.00	-	-	4	-	-	.6	4	34	40	.1	9780	4	23	3	55
48489	168.00	171.00	3.00	-	-	8	-	-	.7	27	52	47	.1	10870	4	25	3	86
48490	171.00	174.00	3.00	-	-	9	-	-	1.0	167	49	61	.1	12560	6	39	8	219
48491	174.00	177.00	3.00	-	-	7	-	-	.8	8	63	452	.1	9760	2	41	2	119
48492	177.00	179.22	2.22	-	-	9	-	-	.7	7	30	61	.1	10840	1	30	4	146

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: M.REBAGLIATI/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-25

FILE NO: OS-0617-RJ1+2
DATE: 90/10/05
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48403	.9	21280	31	14	166	1.1	1	4780	.1	13	237	33900	3270	17	17830	1271	3	290	1	1730	35	16	12	1	1	74.6	96	1	3	2	8	76
48404	.8	18420	26	9	147	1.3	1	6610	.1	10	29	34100	2410	12	15050	1028	5	170	1	1670	21	16	11	1	1	45.5	88	1	2	1	1	13
48405	.9	20160	42	7	179	.9	1	17350	.1	10	16	35130	4250	11	12630	886	4	250	1	1640	23	16	11	1	1	46.0	77	1	2	1	1	18
48406	1.1	14020	37	6	171	.7	2	15820	.1	14	19	30200	3040	7	7530	617	5	250	1	1770	19	16	11	1	1	35.8	48	1	2	1	1	21
48407	1.2	18480	16	5	171	.4	2	22510	.1	11	30	32810	3070	9	9070	788	4	280	1	1520	16	16	16	1	1	46.7	83	2	3	1	1	7
48408	.9	18150	50	5	168	.2	2	19920	.1	9	8	34760	2660	8	9480	754	1	260	1	1420	26	16	15	1	1	42.2	76	1	2	1	1	45
48409	1.2	18050	82	4	145	.4	1	23530	.1	9	7	33350	2390	8	10150	870	3	200	1	1560	20	16	15	1	1	44.0	69	1	2	1	2	31
48410	.9	16540	43	4	346	.4	2	18480	.1	8	9	33240	2610	8	9320	748	2	260	1	1360	20	15	14	1	1	37.9	76	1	2	1	5	16
48411	1.2	8690	23	4	139	.6	1	19650	.2	9	9	28520	2590	5	7190	903	2	230	1	1410	13	15	10	1	1	30.3	66	1	1	1	1	5
48412	1.6	6330	48	5	144	.9	2	21480	.1	23	16	34640	3590	2	8400	950	3	280	1	1600	26	20	10	1	1	37.5	47	1	2	1	5	65
48413	1.2	6510	29	4	131	.9	2	17600	.1	7	6	22540	3900	2	10550	908	1	210	1	1420	21	14	8	1	1	21.0	50	1	2	1	6	5
48414	1.5	6360	110	8	194	.8	1	21560	.9	12	8	37460	3220	4	14080	1381	4	140	1	1270	63	29	12	1	1	23.7	128	1	3	1	4	260
48415	1.0	6620	99	8	128	.8	2	12960	2.1	12	14	35670	3730	1	7150	927	3	80	1	1540	105	26	11	1	1	21.9	134	1	1	1	3	448
48416	1.3	6500	136	8	98	1.2	1	11990	1.0	15	40	41830	4010	2	8460	1148	3	640	1	1140	35	30	10	1	1	26.3	69	1	2	1	1	150
48417	1.8	4610	76	3	92	.8	2	6780	1.9	10	20	28690	2840	1	2990	401	5	160	1	1180	49	19	8	1	1	11.5	23	1	2	1	4	107
48418	1.4	10980	58	5	97	.6	2	13860	.7	14	30	49330	3070	8	8970	1751	3	200	1	1150	28	20	11	1	1	40.4	77	1	2	1	3	48
48419	1.2	7770	253	7	123	.8	1	11870	4.3	13	41	37630	3700	5	5750	1341	5	160	1	1120	14	28	9	1	1	30.5	51	1	2	1	1	56
48420	.1	6760	78	5	118	.6	1	1420	.1	13	5	48950	4130	4	5160	1206	1	80	1	280	24	16	7	1	1	23.1	40	1	3	1	1	35
48421	1.6	6120	54	6	93	.8	1	6730	.1	11	14	39440	3370	3	6560	919	2	150	1	890	28	19	7	1	1	21.8	29	1	2	1	1	72
48422	3.6	4540	103	3	86	.8	1	3850	1.8	10	17	28540	2830	1	2470	402	10	180	1	500	51	22	5	1	1	11.7	17	1	2	1	41	156
48423	2.8	5760	196	4	108	.9	1	3660	3.7	13	24	37860	3300	2	2650	363	2	150	1	630	63	21	7	1	1	21.3	79	1	2	1	6	404
48424	2.0	5420	71	3	115	.7	1	4830	1.4	9	75	26710	3220	1	2810	310	4	130	1	550	134	19	6	1	1	13.4	39	1	1	1	12	186
48425	3.4	5710	83	4	142	.7	1	12480	2.5	12	153	36850	3410	1	4820	496	3	80	1	630	206	29	6	1	1	15.8	324	1	2	1	4	140
48426	3.2	5900	62	6	124	.8	2	32010	1.4	11	29	35600	3000	3	7390	897	3	90	3	740	53	24	11	1	1	18.2	68	1	2	1	3	61
48427	1.5	8670	33	4	78	.8	1	30100	.1	11	23	35990	2340	8	9620	772	2	130	1	710	21	18	14	1	1	29.4	74	1	3	1	1	1
48428	2.0	11370	50	4	110	.8	2	51860	.1	17	50	39260	3080	8	10330	1100	5	120	3	1080	34	24	26	1	1	36.8	76	1	3	1	2	6
48429	1.0	16350	57	5	118	.8	2	17240	.4	16	64	46960	3540	14	11070	544	3	90	5	970	25	23	12	1	1	29.4	111	1	3	1	1	14
48430	.8	7880	23	5	140	1.4	1	13200	2.0	14	57	39430	3720	9	10370	557	7	80	5	820	28	21	9	1	1	25.2	102	1	2	1	1	10
48431	.3	10050	15	5	645	.9	1	5190	.1	11	6	39240	3130	7	7940	468	1	110	1	460	20	17	8	1	1	25.0	65	1	2	1	1	19
48432	.5	12220	13	4	160	1.1	1	8180	.1	11	15	36940	3320	10	8240	472	3	170	1	1070	9	16	9	1	1	34.5	75	1	2	1	6	13
48433	.4	6510	20	15	110	1.3	2	2050	.1	10	58	31110	2640	10	6230	329	3	50	1	210	29	14	5	1	1	9.1	66	1	1	1	1	17
48434	.3	5540	27	11	117	1.4	1	3810	.1	11	10	34520	3270	5	7700	373	3	60	1	300	24	6	7	1	1	11.3	48	1	2	1	1	13
48435	2.7	5890	91	12	85	.5	2	28500	2.9	9	68	32110	3290	4	10570	1077	3	90	1	660	98	22	9	1	1	12.0	576	1	2	1	15	131
48436	.3	13580	11	7	106	.7	2	9570	.1	10	7	30110	2970	10	10050	531	2	60	1	270	29	4	6	1	1	15.4	86	1	1	1	3	15
48437	.7	16310	6	6	1063	.8	2	7560	.2	9	13	28920	3210	10	9830	352	2	80	2	290	28	3	9	1	1	19.0	72	1	2	1	7	11
48438	.7	20200	27	6	273	1.2	1	10560	.1	9	21	40600	2560	12	14420	451	5	30	1	330	27	5	7	1	1	12.3	137	1	2	1	2	6
48439	.5	13760	39	6	89	1.2	1	12630	.1	9	47	38490	2520	10	13300	434	2	40	1	400	41	6	5	1	1	10.2	130	1	1	1	2	7
48440	.5	25060	44	6	79	1.7	2	6480	.1	10	24	49610	2170	16	18190	403	4	20	1	300	32	5	8	1	1	14.9	178	2	3	1	1	11
48441	.6	26110	46	6	119	1.0	2	5490	.1	9	50	44900	3420	16	18420	376	4	30	1	430	29	3	9	1	1	14.8	165	2	2	1	4	6
48442	.8	25390	37	6	92	1.1	2	2760	.1	14	38	44200	2400	18	20020	303	2	30	1	480	52	4	8	1	1	22.3	134	2	2	1	12	4
48443	1.3	24570	21	5	85	1.6	2	7040	.1	10	24	39600	2570	23	24590	538	8	50	2	1120	40	9	11	1	1	25.6	123	1	3	1	3	17
48444	1.4	21520	27	4	97	1.5	1	7040	.1	9	22	34360	2390	20	23180	537	6	30	9	700	47	12	9	1	1	22.1	111	1	2	1	10	20
48445	1.2	27960	78	6	119	2.1	2	8800	.1	11	16	46230	2750	25	27920	634	10	40	1	1470	42	10	15	1	1	24.0	104	1	2	1	13	32
48446	1.2	26480	58	6	105	1.9	2	6310	.1	17	16	44390	2790	24	25730	531	7	120	1	1290	42	11	13	1	1	29.8	107	1	3	1	14	21
48447	1.9	31670	73	7	123	1.9	1	5380	.5	18	21	54420	2930	29	32250	566	13	110	1	1870	44	13	16	1	1	42.3	124	1	3	1	23	33
48448	1.5	41900	102	6	36	1.1	1	4550	.1	35	56	44100	910	42	52020	831	9	280	49	690	122	7	16	1	1	248.5	190	1	3	3	221	13
48449	2.2	27870	42	5	52	1.6	1	6650	.1	13	37	35650	1630	31	41620	684	19	50	17	410	153	10	15	1	1	55.3	265	1	3	1	54	35
48450	2.0	33610	52	5	51	1.9	1	2010	.1	9	32	34710	1860	37	47230	481	28	30	28	770	40	12	11	1	1	86.1	345	1	2	1	24	32
48451	2.1	28470	52	6	54	1.4	2	5100	.1	11	35	40780	1860	31	41020	529	30	20	25	610	47	15	14	1	1	65.1	243	1	3	1	19	46
48452	2.0	22830	49	6	41	1.8	1	5980	.1	11	34	37730	1690	37	34460	555	24	20	21	640	47	13	14	1	1	45.6	108	1	3	1	22	34
48453	1.9	42480	72	7	31	2.1	1	2980	.1	17	52	44410	1110	48	59620	782	17	30	22	620	45	7	15	1	1	113.2	271	1	4	1	51	33
48454	2.0	44490	50	7	166	2.3	2	3580	.1	25	72	50140	930	51	61070	847	11	50	32	710	23	8	16	1	1	163.4	127	1	4	1	115	37
48475	1.3	47420	62	7	33	2.0	1	2560	.1	30	84	53210	300	54	63310	846	7	120	35	640	36	5	14	1	1	215.9	158	1	4	2	167	36
48476	2.0	39280	81	6	43	1.8	1	1980	.1	24	86	44660	1120	43	53040	729	13	80	31	550	45	8	11	1	1	154.9	125	1	3	1	117	38
48477	1.5	51120	44	6	37	2.4	1	2360	.1	29	20	44990	960	57	69380	891	3	100	41	760	9	4	13	1	1	212.8	119	1	3	2	165	21
48478	1.9	67250	96	8	17	2.1	1	2530	.1	42	226	70310	160	63	86190	1277	1	90	49	780	21	8	18	1	1	332.3	266	1	6	3	233	24
48479	1.3	53310	116	7	16	2.8	1	2400	.1	40	151	59030	90	53	70130	1007	3	100	47	640	10	7	16	1	1	286.5	223	1	4	2	206	20
48480	1.0	34120	51	5	23	2.0	2	1990	.1	13	26	29890	600	42	49510	597	12	140	11	190	20	3	11	1	1	89.2	116	1	2	1	81	22
48481	2.1	57600	53	9	21	2.7	1	4310	.1	27	235	54950	560	62	80990	1101	9	40	29	590	28	7	16	1	1	220.0	228	1	5	2	134	29
48482	1.8	44170	61	6	27	2.2	1	3250	.1	23	72	46440	670	51	63580	834	21	70	25	700	47	9	16	1	1	168.2	206	1	4	2	113	33

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ.: SIB
ATTN: M.REBAGLIATI/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-25

FILE NO: 0S-0617-RJ3
DATE: 90/10/05
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48483	1.6	26600	34	16	34	1.1	1	1920	1.2	10	109	27730	1500	40	36160	386	17	600	17	460	44	9	10	1	1	57.1	328	1	3	1	35	15
48484	2.0	24010	41	14	38	1.5	1	12340	.1	10	48	23590	2050	38	33010	509	21	510	21	780	42	9	26	1	1	46.1	187	1	3	1	54	15
48485	.9	23060	49	10	30	1.2	1	2150	.1	7	12	24980	1470	29	33460	330	33	590	35	400	38	6	9	1	1	82.1	84	1	3	2	97	14
48486	1.8	34570	42	10	57	2.1	1	1900	.1	11	48	37290	2430	36	46850	367	26	850	31	530	61	15	12	1	1	90.5	268	1	4	1	34	10
48487	1.7	22250	62	6	34	1.7	1	1850	.1	5	19	13540	1530	25	33500	300	7	90	1	50	31	4	9	1	1	12.8	80	1	2	2	122	9
48488	.6	18650	34	5	40	1.0	1	530	.1	3	4	9780	1330	21	28340	200	4	160	4	50	23	3	6	1	1	4.9	55	1	2	2	110	4
48489	.7	22720	52	5	47	2.0	1	350	.1	3	27	10870	1920	27	34480	223	4	30	1	40	25	3	5	1	1	4.4	86	1	2	1	99	8
48490	1.0	20280	49	6	61	2.8	1	690	.1	3	167	12560	3160	22	26680	159	6	60	1	50	39	8	7	1	1	4.0	219	1	2	1	93	9
48491	.8	17880	63	5	452	2.8	1	670	.1	2	8	9760	3180	18	21320	98	2	40	1	30	41	2	6	1	1	3.0	119	1	1	2	83	7
48492	.7	17190	30	4	61	3.0	1	450	.1	2	7	10840	3150	18	19800	86	1	40	1	50	30	4	5	1	1	2.4	146	1	1	1	74	9

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-26

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 1048/9	CLAIM #	: SIB 12		
LOCAL GRID	: 8837.35 N / 9958.95 E	GLOBAL GRID	: 13114.31 N / 17965.13 E	ELEVATION	: 1096.07 metres
LENGTH	: 118.26 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 297.0 degrees
OVERBURDEN	: 1.52 m	CASING	: 1.52 metres	ASSAYING BY	: Min-En Labs
LOGGED BY	: Guy LePage	DRILLED BY	: J.T. Thomas	CORE LOCATION	: 101+00 N, 98+00 E
DATE LOGGED	: 1990/09/23 Y/M/D	DATE DRILLED	: 1990/09/21 Y/M/D	SAMPLE NO. SERIES	: 48493-48546 48455-48474

ACID TESTS

Depth	Dip	Azimuth
118.26	-43.0	297.0

SUMMARY LOG 90-26

From(m)	To(m)	Field Name (Legend)
0.00	1.52	CASING
1.52	13.01	TUFFACEOUS LAPILLI FRAGMENTAL (UNIT 11)
13.01	19.90	PLAGIOCLASE PORPHYRY TUFF (UNIT 11)
19.90	39.80	TUFFACEOUS LAPILLI FRAGMENTAL (UNIT 11)
39.80	55.12	PLAGIOCLASE PORPHYRY TUFF (UNIT 11)
55.12	59.10	QUARTZ VEINS+RIBBONED QUARTZ (UNIT 11)
59.10	61.00	PLAGIOCLASE PORPHYRY TUFF (UNIT 11)
61.00	90.35	ARGILLACEOUS MUDSTONE(+-SILTSTONE) (UNIT 12)
90.35	118.26	K-FELDSPAR FLOODED FRAGMENTAL (UNIT 21)
118.26		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-26

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
48.00	50.50	2.50	0.014			
51.50	59.10	7.60	0.016			
61.00	62.00	1.00	0.014			

From(m)	To(m)	Description
0.00	1.52	CASING
1.52	13.01	TUFFACEOUS LAPILLI FRAGMENTAL (UNIT 11) Composition Matrix: White siliceous material. Fragments: Mostly elongate plagioclase porphyry, lapilli size, long axis oriented at 60 to 70 degrees to core axis. Light to mid grey, aphanitic, plagioclase rich groundmass with a porphyry phase of plagioclase phenocrysts average 0.5 to 0.8 mm in length. Fragments range from mm up to 70 mm in width(average 20 to 25 mm in length). Structure Jointing: 70 degrees to core axis. To a lesser extent 15 to 20 degrees to core axis. Alteration Silicification: Weak. Mostly localized. Sericite: Moderate. Alteration of plagioclase phenocrysts. Mineralization Pyrite: 1 to 2%. Disseminations and blebs associated with volcanic fragments and in veins associated with chlorite/calcite+-iron carbonate veins at 60 to 70 degrees to core axis and 0.5 to 3.0 mm wide(average 1.5 mm) with frequency >50 per metre. Selvedges within quartz+-chlorite veins at variable degrees to core axis. Galena: Trace. In quartz veins oriented sub-parallel to degrees to core axis from 7.50 to 13.01 metres. Sphalerite: Trace. Found with galena in veins. Sub-Intervals <1.52>-<6.50>: Zone of oxidation. Consists of limonite and traces of pyrolusite+-psilomelane on fracture surfaces and to a lesser extent in veins.
13.01	19.90	PLAGIOCLASE PORPHYRY TUFF (UNIT 11) Plagioclase Phenocrysts: Euhedral to subhedral, average 0.5 to 0.8 mm in length(30 to 35%). Composition Groundmass: Light to mid green, aphanitic, plagioclase rich. Structure Jointing: 70 degrees to core axis. To a lesser extent 20 degrees to core axis.

From(m)	To(m)	Description
		Mineralization Pyrite: 1 to 3%. Disseminations, blebs and veins at 60 to 70 degrees to core axis ranging to 45 to sub-parallel to degrees to core axis+-chlorite. Similar to above unit. Galena: Trace. At 13.07 metres. Width variable, 0.5 to 15 mm(average 3 to 4 mm), frequency 20 to 25 per metre. Sub-Intervals <17.05>-<19.70>: FAULT. Upper contact and lower contact unclear. Predominant planar fabric oriented at 30 to 35 degrees to core axis. Core badly broken throughout.
19.90	39.80	TUFFACEOUS LAPILLI FRAGMENTAL (UNIT 11) Composition Lithology: Similar to 1.52 to 13.01 metres. Structure Shearing: Localized at 25.10 to 25.15 metres, 26.00 to 26.69 metres and 27.42 to 27.75 metres. Alteration Potassic: Weak to Moderate. Increases downhole from minor veinlets at 19.90 metres towards localized texture destructive pervasive alteration(50 to 60%) towards 32.00 metres. Chloritic: Weak to Moderate. Corresponding increase with potassic alteration. Mineralization Pyrite: 1 to 3%. Similar mode of occurrence as from 1.52 to 13.01 metres. Veins and Sub-Intervals Quartz-iron carbonate Veining. Core axis angle 45 degrees. Notable increase towards 37.00 metres. Veins from 0.5 to 25 mm wide(average 10 mm). <29.35>-<29.67>: Strongly sericite-chlorite alteration fragments.
39.80	55.12	PLAGIOCLASE PORPHYRY TUFF (UNIT 11) Composition Lithology: Similar to 13.01 to 19.90 metres. Unit is increasingly deformed with core moderately broken throughout, mostly with limonitic staining. Alteration K-feldspar: Strong. Flooding with the degree of k-feldspar content increasing with the quartz veins at 55.12 metres.

From(m) To(m) ----------Description----------

Mineralization
Pyrite: 3 to 4%. Disseminations, blebs and veins+-chlorite+-quartz+-iron carbonate+-calcite or as massive pyrite at varied degrees to core axis from 0.5 to 25cm width(average 4 to 5 mm).
Veins
Quartz-pyrite Veining. Increased frequency with depth(>20 per metre). Some veins contain up to 70 to 80% pyrite. Correspond with intense potassic flooding.

55.12 59.10 QUARTZ VEINS+RIBBONED QUARTZ (UNIT 11)
Composition
Quartz: 70 to 80%. Milky quartz containing brecciated tuffaceous fragments and randomly oriented chlorite-pyrite veinlets.
Structure
Lower contact: 45 degrees to core axis.
Alteration
Potassic: Weak. Interval is consistent with marked decrease in alteration. Tuffaceous fragments are relatively melanocratic compared to upper contact.
Mineralization
Galena: Trace. Mostly as disseminated blebs(average 1 to 1.5 mm across).
Sphalerite: Trace. Mostly as disseminated blebs.
Arsenopyrite: Trace. Mostly as disseminated blebs and occasionalyy as clusters.
Pyrrhotite: Trace. Mostly as disseminated blebs.
Pyrite: 1 to 3%.
Gold: Trace. Fine spec at 58.20 metres.

59.10 61.00 PLAGIOCLASE PORPHYRY TUFF (UNIT 11)
Plagioclase Phenocrysts: Euhedral to subhedral, average 1 to 2 mm in length. K-feldspar(orthoclase) phenocrysts comprise 10% of the unit and range from 1 to 2 mm in length with average 1 mm.
Composition
Groundmass: Plagioclase rich, aphanitic, light to mid grey.
Structure
Jointing: 60 to 70 degrees to core axis.
Alteration
Silicification: Vein array, +- k-feldspar(3 to 5%) oriented at 45 to 70 degrees to core axis. Veins range from 1 to 10 mm with an average of 4 to 5 mm in width.

From(m) To(m) ----------Description----------

Mineralization
Pyrite: 2 to 4%. Blebs, disseminations and randomly oriented discontinuous veins from 0.5 to 20 mm with an average width of 1.0 to 1.5 mm. Also in quartz veins at varied degrees to core axis.
Galena: Trace. Associated with pyrite in blebs and as blebs and disseminations in selvedges within quartz+-chlorite veins.

61.00 90.35 ARGILLACEOUS MUDSTONE(+-SILTSTONE) (UNIT 12)
Composition
Mudstone: Black, argillaceous, interbedded.
Siltstone: 5 to 7%. Silty(and rarely sandy) beds with alternating quartzose and felsic beds(0.5 to 20 mm) oriented at 60 degrees to core axis. Graded bedding indicates fining downhole.
Clasts: Occasional, argillaceous, elongate, interbedded with silty-sandy beds.
Structure
Bedding: Occasionally sub-parallel to core axis.
Mineralization
Pyrite: 3 to 5%. Syngenetic, descrete layers, laminations oriented parallel to the bedding from 0.5 to 10 mm in width.
Sub-Intervals
<87.78>-<90.35>: FAULT. Upper contact and lower contact unclear, predominant planar faabric at 60 degrees to core axis, locally sheared and brecciated, heavy jointing throughout.

90.35 118.26 K-FELDSPAR FLOODED FRAGMENTAL (UNIT 21)
Composition
Groundmass: 10 to 15%. Black, aphanitic, plagioclase rich grading to k-feldspar rich.
Selvedges: Intensely potassic flooded and brecciated volcanic fragments(plagioclase porphyry which range from mm up to 20 to 30 mm with an average width of 10 to 12 mm.
Iron carbonate: 5 to 10%. +-Calcite form a less extensive interstial matrix filling cement throughout.
Mineralization
Pyrite: Trace. Rare fine disseminations.
Sub-Intervals
<114.72>-<116.20>: Intensely sericite altered, dark to mid green volcanic clasts in a pale green aphanitic groundmass.

118.26 END OF HOLE.

Hole No.: 90-26

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	1.52	1.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48493	1.52	4.00	2.48	-	-	79	-	-	2.4	27	30	240	12.2	30630	2	501	2	1711
48494	4.00	6.00	2.00	-	-	111	-	-	1.8	23	53	244	.1	29860	2	120	2	298
48495	6.00	7.37	1.37	-	-	73	-	-	1.5	21	45	267	.1	36240	1	58	1	206
48496	7.37	8.53	1.16	-	-	108	-	-	1.2	44	83	204	.1	30170	6	70	1	76
48497	8.53	11.00	2.47	-	-	55	-	-	.9	30	57	264	.1	29850	2	41	1	116
48498	11.00	12.91	1.91	-	-	104	-	-	.9	15	78	170	.1	35680	3	24	1	83
48499	12.91	14.00	1.09	-	-	136	-	-	1.0	20	46	191	.1	40200	2	39	1	54
48500	14.00	16.94	2.94	-	-	108	-	-	.8	11	31	230	.1	32720	1	28	1	55
48501	16.94	19.70	2.76	-	-	38	-	-	.5	8	62	273	.1	38170	1	29	1	90
48502	19.70	21.00	1.30	-	-	75	-	-	.9	7	43	165	.1	31640	3	15	1	36
48503	21.00	22.00	1.00	-	-	78	-	-	.6	9	62	168	.1	31800	1	21	1	54
48504	22.00	24.00	2.00	-	-	69	-	-	.6	8	12	160	.1	31270	2	28	1	46
48505	24.00	25.35	1.35	-	-	59	-	-	.8	12	53	232	.1	30790	1	31	1	56
48506	25.35	26.50	1.15	-	-	79	-	-	1.0	6	47	230	.1	39120	3	22	1	56
48507	26.50	28.00	1.50	-	-	69	-	-	1.1	6	23	327	.1	31630	2	28	1	69
48508	28.00	30.00	2.00	-	-	57	-	-	.5	10	52	233	.1	33960	1	19	1	45
48509	30.00	32.00	2.00	-	-	41	-	-	.8	10	25	122	.1	31740	2	24	1	58
48510	32.00	34.00	2.00	-	-	61	-	-	.8	11	48	84	.1	30540	3	38	1	41
48511	34.00	36.00	2.00	-	-	47	-	-	.9	7	84	109	.2	27270	4	35	1	46
48512	36.00	38.00	2.00	-	-	46	-	-	1.0	6	67	126	.1	32140	2	55	1	83
48513	38.00	39.26	1.26	-	-	134	-	-	.9	16	86	114	.1	32180	4	40	1	298
48514	39.26	41.40	2.14	-	-	68	-	-	.8	28	62	130	.1	36040	2	66	1	109
48515	41.40	42.59	1.19	-	-	58	-	-	2.2	44	45	74	.1	37650	3	34	1	61
48516	42.59	43.50	.91	-	-	82	-	-	.6	35	119	77	.1	40090	2	36	1	82
48517	43.50	44.50	1.00	-	-	69	-	-	.8	76	31	136	.1	32050	3	25	1	73
48518	44.50	45.50	1.00	-	-	255	-	-	2.2	43	129	100	39.3	28830	3	931	2	4903
48519	45.50	46.50	1.00	-	-	116	-	-	.6	14	95	153	1.3	30500	2	57	1	160
48520	46.50	48.00	1.50	-	-	266	-	-	1.6	18	714	108	15.2	31330	1	74	2	59
48521	48.00	50.50	2.50	-	-	464	-	-	1.0	28	313	119	6.5	27980	2	39	1	51
48455	50.50	51.00	.50	-	-	462	-	-	.6	55	93	146	.1	25380	1	37	1	25
48456	51.00	51.50	.50	-	-	234	-	-	.2	26	97	138	.3	16850	1	33	1	16
48457	51.50	52.00	.50	-	-	480	-	-	1.1	80	130	156	.1	28460	1	40	1	22
48458	52.00	52.50	.50	-	-	606	-	-	1.3	59	188	233	1.5	34970	1	89	3	56
48459	52.50	53.00	.50	-	-	538	-	-	1.0	74	125	220	2.6	24170	1	46	1	424
48460	53.00	53.50	.50	-	-	695	-	-	1.1	45	195	261	.2	31270	1	57	1	49
48461	53.50	54.00	.50	-	-	555	-	-	.6	29	125	219	.1	37370	1	49	1	70
48462	54.00	54.50	.50	-	-	775	-	-	.5	42	178	147	.1	42370	1	40	1	262
48463	54.50	55.12	.62	-	-	283	-	-	.6	28	109	173	.1	23610	1	47	1	88
48464	55.12	55.50	.38	-	-	446	-	-	.8	39	116	203	1.7	26240	1	89	1	95
48465	55.50	56.00	.50	-	-	342	-	-	1.3	82	130	291	2.2	16150	1	278	10	657
48466	56.00	56.50	.50	-	-	197	-	-	.5	30	109	102	6.1	10780	2	317	2	1445
48467	56.50	57.00	.50	1.02	.030	1100	-	-	7.0	712	247	134	14.5	30080	1	585	24	2983
48468	57.00	57.50	.50	-	-	464	-	-	2.5	355	135	93	1.8	14150	1	192	6	625
48469	57.50	58.00	.50	-	-	108	-	-	.7	160	147	89	.1	10620	2	42	2	47
48470	58.00	58.50	.50	-	-	265	-	-	.5	70	143	111	.9	14300	1	32	1	111
48471	58.50	59.10	.60	-	-	386	-	-	.9	46	183	113	2.1	17890	1	226	1	116
48472	59.10	59.50	.40	-	-	167	-	-	1.7	180	87	249	.3	21680	1	31	1	140
48473	59.50	60.00	.50	-	-	138	-	-	.7	29	104	143	1.4	20040	1	24	1	16
48474	60.00	61.00	1.00	-	-	418	-	-	.8	61	175	178	1.7	28970	1	38	1	274

Hole No.: 90-26

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
48522	61.00	62.00	1.00	-	-	475	-	-	1.3	42	171	130	2.3	20870	2	108	1	110
48523	62.00	63.00	1.00	-	-	136	-	-	1.9	46	106	145	1.2	21340	3	47	4	90
48524	63.00	64.00	1.00	-	-	299	-	-	1.3	124	112	137	.1	29160	4	162	11	341
48525	64.00	65.00	1.00	-	-	111	-	-	1.5	39	85	108	.1	36990	23	48	16	109
48526	65.00	67.00	2.00	-	-	98	-	-	1.5	39	83	107	.1	36700	22	53	16	137
48527	67.00	69.00	2.00	-	-	6	-	-	1.4	38	57	101	.1	33060	22	41	20	173
48528	69.00	71.00	2.00	-	-	5	-	-	1.3	43	60	89	.1	37930	22	36	10	158
48529	71.00	73.00	2.00	-	-	3	-	-	1.9	34	93	99	.1	35210	18	33	3	123
48530	73.00	75.00	2.00	-	-	2	-	-	.7	32	56	107	.1	34860	23	38	1	109
48531	75.00	77.00	2.00	-	-	2	-	-	1.0	36	53	80	.1	38280	25	25	1	111
48532	77.00	79.00	2.00	-	-	2	-	-	.9	32	18	73	.1	34420	25	37	1	168
48533	79.00	82.00	3.00	-	-	1	-	-	.5	32	24	67	.1	35490	20	27	1	126
48534	82.00	85.00	3.00	-	-	2	-	-	.6	22	28	85	.1	33130	8	25	1	91
48535	85.00	88.00	3.00	-	-	4	-	-	1.3	46	60	98	.7	33110	29	31	1	333
48536	88.00	90.60	2.60	-	-	6	-	-	1.8	53	40	97	3.9	32820	23	35	9	423
48537	90.60	94.00	3.40	-	-	1	-	-	1.7	8	36	48	.1	9120	2	22	1	69
48538	94.00	97.00	3.00	-	-	3	-	-	1.5	6	43	40	.1	8200	6	24	1	56
48539	97.00	98.00	1.00	-	-	2	-	-	1.4	6	58	51	.1	8040	2	33	1	118
48540	98.00	101.00	3.00	-	-	2	-	-	1.4	6	78	58	.1	8010	3	27	1	56
48541	101.00	104.00	3.00	-	-	3	-	-	1.3	6	61	54	.1	7200	4	34	1	55
48542	104.00	107.00	3.00	-	-	3	-	-	1.4	6	50	50	.1	7950	2	31	1	46
48543	107.00	110.00	3.00	-	-	1	-	-	1.0	7	87	67	.1	7690	4	28	1	82
48544	110.00	113.00	3.00	-	-	4	-	-	1.1	6	73	52	.1	7620	1	24	1	55
48545	113.00	116.00	3.00	-	-	4	-	-	1.3	7	39	68	.1	7780	3	30	1	77
48546	116.00	118.26	2.26	-	-	5	-	-	1.2	7	72	49	.1	8090	1	37	1	81

COMP: COASTAL MTN. ENGRG.
PROJ: S1B
ATTN: D.COPELAND/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-26

FILE NO: 0S-0578-RJ1
DATE: 90/10/02
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48455	.6	6040	93	11	146	.4	1	4200	.1	13	55	25380	4590	1	980	51	1	230	1	1850	37	1	7	1	1	17.3	25	1	1	1	29	462
48456	.2	4780	97	7	138	.4	2	2320	.3	6	26	16850	3330	2	910	52	1	300	1	1080	33	1	7	1	1	15.0	16	1	1	2	162	234
48457	1.1	6010	130	5	156	.8	2	3920	.1	12	80	28460	4530	1	670	28	1	180	1	1750	40	1	15	1	1	16.8	22	1	1	1	60	480
48458	1.3	6380	188	4	233	.9	1	3720	1.5	14	59	34970	4820	1	1200	110	1	110	1	1800	89	3	9	1	1	17.8	56	1	1	1	53	606
48459	1.0	8020	125	4	220	.5	2	3620	2.6	10	74	24170	5740	1	1920	158	1	180	3	1660	46	1	8	1	1	23.8	424	1	1	1	116	538
48460	1.1	7510	195	4	261	1.2	1	3840	.2	14	45	31270	5450	1	2570	249	1	90	2	1830	57	1	29	1	1	24.3	49	1	1	1	79	695
48461	.6	6940	125	4	219	.6	2	4070	.1	11	29	37370	4610	2	5350	498	1	70	1	1750	49	1	10	1	1	27.3	70	1	1	1	38	555
48462	.5	4780	178	4	147	1.0	2	4220	.1	13	42	42370	3580	1	4340	499	1	50	1	1780	40	1	13	1	1	20.7	262	1	3	1	30	775
48463	.6	4380	109	2	173	.6	2	3160	.1	9	28	23610	3300	1	1860	198	1	140	1	1430	47	1	32	1	1	15.7	88	1	1	1	102	283
48464	.8	4630	116	3	203	.3	2	3170	1.7	10	39	26240	3460	1	1810	190	1	150	1	1370	89	1	36	1	1	16.6	95	1	1	1	139	446
48465	1.3	3600	130	2	291	.6	1	1220	2.2	5	82	16150	2560	1	280	22	1	180	1	780	278	10	5	1	1	9.8	657	1	1	1	146	342
48466	.5	2150	109	1	102	.4	1	950	6.1	4	30	10780	1690	1	170	25	2	210	4	480	317	2	5	1	1	6.0	1445	1	1	2	211	197
48467	7.0	4730	247	4	134	1.0	1	2550	14.5	11	712	30080	3690	1	380	17	1	260	1	1220	585	24	8	1	1	13.5	2983	1	1	1	155	1100
48468	2.5	3280	135	1	93	.1	2	1500	1.8	5	355	14150	2440	1	270	31	1	150	3	630	192	6	5	1	1	9.4	625	1	1	2	244	464
48469	.7	2470	147	1	89	.4	1	1070	.1	4	160	10620	1940	1	200	25	2	260	2	480	42	2	4	1	1	8.2	47	1	1	2	268	108
48470	.5	3710	143	1	111	.1	1	2290	.9	6	70	14300	2930	1	290	22	1	220	3	1020	32	1	7	1	1	10.7	111	1	1	2	182	265
48471	.9	3580	183	1	113	.5	2	2460	2.1	8	46	17890	2490	1	360	32	1	280	2	1060	226	1	8	1	1	12.0	116	1	1	1	155	386
48472	1.7	9360	87	2	249	.8	2	4440	.3	14	180	21680	6350	1	1040	74	1	140	3	1920	31	1	8	1	1	25.4	140	1	1	1	95	167
48473	.7	6920	104	6	143	.8	2	4400	1.4	10	29	20040	4320	2	1600	124	1	160	2	1750	24	1	7	1	1	21.5	16	1	1	1	56	138
48474	.8	9910	175	3	178	1.1	2	4270	1.7	11	61	28970	6400	1	1600	116	1	200	1	1750	38	1	6	1	1	23.7	274	1	1	1	90	418

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: M. REBAGLIATI

MIN-EN LABS — ICP REPORT

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

90-26

FILE NO: 0S-0630-RJ1+2
DATE: 90/10/09
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48493	2.4	13190	30	27	240	.8	1	8920	12.2	14	27	30630	4130	25	5810	489	2	290	2	1730	501	2	9	1	1	35.0	1711	1	2	1	35	79
48494	1.8	15320	53	14	244	.8	1	11750	.1	16	23	29860	5080	14	6630	539	2	250	1	1880	120	2	11	1	1	42.0	298	1	1	1	40	111
48495	1.5	17940	45	9	267	.6	2	16160	.1	15	21	36240	4650	13	8160	773	1	400	1	1660	58	1	14	1	1	55.1	206	1	1	1	64	73
48496	1.2	15730	83	7	204	1.0	1	9290	.1	15	44	30170	6280	7	4880	343	6	320	1	1810	70	1	11	1	1	48.8	76	1	1	2	102	108
48497	.9	16560	57	6	264	.5	1	6210	.1	12	30	29850	5520	7	7210	344	2	290	1	1620	41	1	9	1	1	46.6	116	1	1	1	60	55
48498	.9	15160	78	5	170	.6	1	12080	.1	10	15	35680	5400	7	6790	542	3	450	1	1470	24	1	10	1	1	46.8	83	1	2	2	99	104
48499	1.0	17880	46	5	191	.5	1	16100	.1	10	20	40200	4830	9	7690	799	2	400	1	1510	39	1	9	1	1	51.4	54	1	2	1	43	136
48500	.8	17290	31	5	230	.7	2	13230	.1	10	11	32720	5450	8	7060	675	1	510	1	1560	28	1	11	1	1	56.0	55	1	1	1	49	108
48501	.5	20880	62	4	273	.5	1	6110	.1	9	8	38170	4130	11	11720	978	1	590	1	1630	29	1	7	1	1	66.2	90	2	2	1	49	38
48502	.9	15080	43	4	165	.6	1	7960	.1	9	7	31640	5210	7	8730	515	3	480	1	1660	15	1	10	1	1	48.1	36	1	1	1	70	75
48503	.6	15440	62	3	168	.6	1	5540	.1	10	9	31800	4990	8	8390	401	1	530	1	1730	21	1	10	1	1	53.2	54	1	1	2	85	78
48504	.6	16440	12	4	160	.9	1	6960	.1	10	8	31270	5740	7	8610	516	2	460	1	1750	28	1	11	1	1	51.9	46	1	2	1	61	69
48505	.8	18490	53	4	232	.7	1	7920	.1	10	12	30790	6010	8	9850	572	1	360	1	1780	31	1	12	1	1	48.1	56	1	1	1	42	59
48506	1.0	22650	47	5	230	.9	1	15540	.1	12	6	39120	8020	8	10770	940	3	480	1	1740	22	1	15	1	1	55.4	56	1	2	1	41	79
48507	1.1	19580	23	4	327	.8	1	16210	.1	10	6	31630	5880	9	13920	1512	2	460	1	1770	28	1	14	1	1	52.9	69	1	1	1	36	69
48508	.5	15700	52	5	233	1.3	2	4980	.1	11	10	33960	6900	5	8060	694	1	190	1	1130	19	1	8	1	1	37.6	45	1	1	1	23	57
48509	.8	16170	25	3	122	.6	1	6960	.1	12	10	31740	3800	8	11850	828	2	850	1	1930	24	1	11	1	1	81.6	58	1	2	1	45	41
48510	.8	13900	48	2	84	.4	2	5640	.1	13	11	30540	1790	10	13440	691	3	950	1	1790	38	1	9	1	1	94.8	41	1	2	1	54	61
48511	.9	13060	84	2	109	.5	1	7100	.2	11	7	27270	1770	10	14400	721	4	740	1	1760	35	1	9	1	1	95.3	46	1	1	1	38	47
48512	1.0	11740	67	3	126	.5	1	11660	.1	11	6	32140	1640	9	14890	1196	2	830	1	1720	55	1	16	1	1	91.0	83	1	1	1	68	46
48513	.9	11730	86	4	114	.9	1	7710	.1	12	16	32180	3470	8	14110	1007	4	250	1	1560	40	1	16	1	1	58.7	298	1	1	1	54	134
48514	.8	14260	62	4	130	.5	1	3580	.1	11	28	36040	3300	8	11380	962	2	380	1	1570	66	1	8	1	1	67.3	109	1	1	1	49	68
48515	2.2	18290	45	2	74	.2	1	3860	.1	11	44	37650	1990	13	14230	856	3	970	1	1760	34	1	8	1	1	129.3	61	2	2	2	55	58
48516	.6	12760	119	3	77	.3	1	3450	.1	13	35	40090	2000	8	9080	578	2	860	1	1480	36	1	6	1	1	74.2	82	1	1	2	109	82
48517	.8	14610	31	2	136	.3	1	3820	.1	11	76	32050	3000	9	10890	733	3	640	1	1570	25	1	6	1	1	52.6	73	1	2	1	82	69
48518	2.2	6670	129	3	100	.6	1	2500	39.3	10	43	28830	2840	3	4480	334	3	140	1	980	931	2	7	1	1	31.5	4903	1	1	1	77	255
48519	.6	6140	95	4	153	.2	1	3960	1.3	12	14	30500	3460	2	3730	393	2	60	8	1330	57	1	9	1	1	28.7	160	1	1	1	78	116
48520	1.6	4800	714	3	108	.2	1	1830	15.2	8	18	31330	3310	1	870	61	1	40	1	1050	74	2	5	1	1	20.9	59	1	1	1	92	266
48521	1.0	6990	313	3	119	.6	1	2880	6.5	9	28	27980	4730	1	810	51	2	100	1	1220	39	1	6	1	1	17.7	51	1	1	4	179	464
48522	1.3	6430	171	3	130	.5	1	4900	2.3	10	42	20870	4240	1	870	82	2	160	1	1590	108	1	7	1	1	16.7	110	1	1	2	126	475
48523	1.9	7280	106	27	145	.8	2	4600	1.2	11	46	21340	4860	20	1630	148	3	170	5	1540	47	4	7	1	1	20.1	90	1	1	1	55	136
48524	1.3	7330	112	14	137	1.0	1	3890	.1	13	124	29160	5030	6	3520	249	4	370	3	1350	162	11	8	1	1	15.3	341	1	1	1	36	299
48525	1.5	9150	85	13	108	1.2	1	16030	.1	13	39	36990	5220	4	15070	613	23	450	29	850	48	16	17	1	1	22.9	109	1	2	1	34	111
48526	1.5	9900	83	11	107	1.1	1	17170	.1	13	39	36700	5650	3	16930	691	22	520	25	970	53	16	17	1	1	24.9	137	1	2	1	35	98
48527	1.4	7050	57	8	101	1.2	1	23250	.1	10	38	33060	4000	2	16770	692	22	530	32	760	41	20	13	1	1	27.3	173	1	2	1	10	6
48528	1.3	10950	60	6	89	1.0	1	21160	.1	11	43	37930	4820	10	17060	652	22	90	19	860	36	10	11	1	1	33.4	158	1	2	1	18	5
48529	1.9	14330	93	4	99	.7	1	51070	.1	14	34	35210	2710	17	20620	1332	18	60	28	520	33	3	67	1	1	43.7	123	1	2	1	40	3
48530	.7	21080	56	5	107	1.7	1	9600	.1	10	32	34860	5340	18	18760	450	23	80	20	520	38	1	6	1	1	29.3	109	1	2	1	21	2
48531	1.0	17910	53	4	80	1.8	1	17780	.1	13	36	38280	4150	16	22170	653	25	80	25	960	25	1	5	1	1	27.6	111	1	2	1	15	2
48532	.9	13150	18	3	73	1.3	1	16260	.1	10	32	34420	3410	11	17770	497	25	60	28	550	37	1	4	1	1	24.9	168	1	2	1	8	2
48533	.5	15670	24	4	67	1.6	1	11570	.1	10	32	35490	4470	14	16690	337	20	70	20	780	27	1	4	1	1	25.9	126	1	2	1	14	1
48534	.6	13630	28	4	85	1.2	1	9370	.1	9	22	33130	3880	12	14920	285	8	60	1	670	25	1	5	1	1	16.8	91	1	2	1	9	2
48535	1.3	12940	60	4	98	1.5	1	25420	.7	10	46	33110	4400	8	24200	547	29	70	43	630	31	1	16	1	1	41.6	333	1	2	1	20	4
48536	1.8	11860	40	4	97	1.6	1	29430	3.9	11	53	32820	4260	7	28060	614	23	70	41	570	35	9	17	1	1	51.2	423	1	2	1	16	6
48537	1.7	3850	36	1	48	1.2	1	35910	.1	2	8	9120	2180	1	32620	1357	2	80	4	70	22	1	21	1	1	7.8	69	1	2	1	64	1
48538	1.5	3430	43	1	40	1.0	1	30470	.1	2	6	8200	2120	1	26980	1514	6	70	8	70	24	1	27	1	1	5.5	56	1	2	1	77	3
48539	1.4	4930	58	1	51	1.2	1	24420	.1	2	6	8040	2870	3	20320	970	2	130	2	60	33	1	34	1	1	4.4	118	1	1	1	94	2
48540	1.4	4280	78	1	58	1.0	1	22690	.1	2	6	8010	2480	2	20790	951	3	80	3	50	27	1	25	1	1	4.4	56	1	1	2	147	2
48541	1.3	4390	61	1	54	1.0	1	21390	.1	2	6	7200	2730	2	17210	706	4	70	4	70	34	1	30	1	1	3.6	55	1	1	1	129	3
48542	1.4	4360	50	1	50	.8	1	22720	.1	2	6	7950	2030	4	21570	901	2	80	4	60	31	1	15	1	1	4.1	46	1	1	1	138	3
48543	1.0	6330	87	1	67	1.4	1	11710	.1	2	7	7690	2610	6	12950	437	4	100	2	30	28	1	9	1	1	3.2	82	1	1	4	176	1
48544	1.1	7870	73	1	52	1.3	1	14930	.1	2	6	7620	2560	9	17830	474	1	80	5	50	24	1	14	1	1	3.7	55	2	1	1	127	4
48545	1.3	10640	39	1	68	3.3	1	13040	.1	2	7	7780	5840	6	14350	451	3	80	4	50	30	1	6	1	1	3.2	77	1	1	3	147	4
48546	1.2	6370	72	1	49	1.9	1	17890	.1	2	7	8090	3780	3	14760	677	1	90	1	30	37	1	25	1	1	3.5	81	1	1	1	118	5

MIN
• EN
LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

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705 WEST 15TH STREET
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SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

90-26

Assay Certificate

OS-0578-RA1

Company: COASTAL MTN. ENGRG.
Project: SIB
Attn: D.COPELAND/R.HASLINGER

Date: OCT-02-90
Copy 1. COASTAL MTN.ENGRG., VANCOUVER, B.C.
2. COASTAL MTN.ENGRG., C/O TUNDRA

We hereby certify the following Assay of 1 ROCK samples submitted SEP-26-90 by R.HASLINGER.

Sample Number	AU g/tonne	AU oz/ton
48467	1.02	.030

Certified by

MIN-EN LABORATORIES

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-27

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 1048/9	CLAIM #	: SIB 12		
LOCAL GRID	: 8626.36 N/ 9864.83 E	GLOBAL GRID	: 12968.27 N 17786.11 E	ELEVATION	: 977.59 metres
LENGTH	: 145.79 m	INCLINATION	: -61.0 degrees	AZIMUTH	: 303.0 degrees
OVERBURDEN	: 3.57 m	CASING	: 3.57 metres	ASSAYING BY	: Min-En Labs
LOGGED BY	: Guy Lepage	DRILLED BY	: J.T. Thomas	CORE LOCATION	: 101+00 N, 98+00 E
DATE LOGGED	: 1990/09/24 Y/M/D	DATE DRILLED	: 1990/09/22 Y/M/D	SAMPLE NO. SERIES	: 48547-48596

ACID TESTS

Depth	Dip	Azimuth
145.69	-56.0	303.0

SUMMARY LOG 90-27

From(m)	To(m)	Field Name (Legend)
0.00	3.57	CASING
3.57	29.61	POTASSIC FLOODED SILICIFIED VOLCANIC FRAGMENTAL (UNIT 11)
29.61	145.79	ARGILLACEOUS MUDSTONE-SILTSTONE (+-SANDSTONE) (UNIT 31)
145.79		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-27

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
3.57	10.00	6.43	0.016	0.19		

From(m)	To(m)	Description
0.00	3.57	CASING
3.57	29.61	POTASSIC FLOODED SILICIFIED VOLCANIC FRAGMENTAL (UNIT 11) Plagioclase Phenocrysts: Average 0.5 to 0.8 mm in length(30 to 35% of clasts) Composition Groundmass: Medium grey to light grey, aphanitic, plagioclase rich. Fragments: 60 to 65%. Volcanic plagioclase porphyry, rounded to sub-angular, range from mm's up to 40 mm in length(average 15 to 20mm). Interbedded with sand-gravel zones(+-clay) elongate. 17.68 to 18.73 metres. Also fragments of off white kaolinized volcanic. Structure Bedding: 40 to 60 degrees to core axis. Defined by long axis of volcanic fragm Jointing: 45 to 50 degrees to core axis. Also at 25 degrees to core axis. Alteration K-feldspar: Strong. Pervasive flooding(up to 80%) throughout, texture destructive. Chloritic: Forms discrete veinlets oriented parallel to bedding and anastamosing throughout(3 to 4%). Mineralization Pyrite: Trace to 2%. Clusters and disseminations and blebs on the margins of volcanic fragments and occasional chloritic veinlets. Veins and Sub-Intervals Iron carbonate Veining. Minor net veins. <3.57>-<31.00>: Oxidation Zone. Reddish brown to brown iron oxides and limonitecoating on fracture surfaces and to a lesser extent veins.
29.61	145.79	ARGILLACEOUS MUDSTONE-SILTSTONE (+-SANDSTONE) (UNIT 31) Composition Mudstone: Black, argillaceous, interbedded with 5 to 10% silty and lesser siliceous beds. Silty beds range from <1.0 mm up to 20 mm in width. Graded bedding is well developed throughtout. Towards 68.00 m. the unit is interbedded with minor calcite rich layers. Structure Bedding: 20 to 25 degrees to core axis. Sub-parallel to 5 degrees to core axis towards 62.00 metres

From(m) To(m) ----------Description----------

Jointing: Parallel bedding planes throughout.
Shearing: 50 to 55 degrees to core axis. Locally, also locally brecciated.

Mineralization

Pyrite: 2 to 3%. Discrete syngenetic beds oriented parallel to bedding and average 1.5 to 2.0 mm in width.

Veins and Sub-Intervals

Quartz-calcite Veining. Numerous veins parallel to shearing up to 12 to 15 mm wide with average 1 to 2 mm. Also enclose brecciated angular argillaceous fragments comprising 10 to 20% of the vein(10 mm to 32 cm with average of 10 to 15 cm in width. Towards 62.00 m. there is a decrease in quartz+calcite+iron carbonate veins and stockwork.

<29.61>-<35.97>: Quartz-calcite Veining. Core axis angle 60 to 70 degrees. +- Iron carbonate stockwork and veining. Poorly mineralized.

<74.68>-<75.43>: FAULT. Gouge and rubble.

<125.36>-<126.27>: FAULT. Sheared with minor quartz veining oriented parallel to degrees to core axis.

145.79 END OF HOLE.

Hole No.: 90-27

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	3.57	3.57	-	-	-	-	-	-	-1	-	-	-	-	-	-	-	-
48547	3.57	6.00	2.43	-	-	410	-	-	3.7	26	429	153	7.1	13950	7	77	21	186
48548	6.00	8.00	2.00	-	-	487	-	-	4.9	129	369	154	9.4	10660	6	520	47	826
48549	8.00	10.00	2.00	-	-	820	-	-	11.3	178	412	156	8.2	26220	8	231	55	792
48550	10.00	16.00	6.00	-	-	164	-	-	2.8	19	107	385	.1	10420	4	65	6	66
48551	16.00	18.73	2.73	-	-	291	-	-	8.7	45	95	441	.1	9090	17	99	12	103
48552	18.73	20.73	2.00	-	-	142	-	-	2.5	18	82	535	.1	10440	7	61	6	144
48553	20.73	24.00	3.27	-	-	48	-	-	1.5	12	92	285	.1	10120	4	58	5	178
48554	24.00	26.82	2.82	-	-	372	-	-	7.8	13	848	126	17.6	23590	6	50	41	92
48555	26.82	29.61	2.79	-	-	153	-	-	2.8	10	166	113	.1	19180	9	46	7	235
48556	29.61	32.00	2.39	-	-	6	-	-	.7	12	105	71	.4	15370	20	29	7	137
48557	32.00	34.00	2.00	-	-	6	-	-	1.9	46	77	112	4.5	28880	6	33	16	380
48558	34.00	36.00	2.00	-	-	6	-	-	2.0	46	63	124	4.3	30550	5	30	18	285
48559	36.00	39.00	3.00	-	-	4	-	-	1.4	43	64	81	.1	33060	3	31	11	149
48560	39.00	42.00	3.00	-	-	1	-	-	1.6	38	54	90	.1	32710	4	33	10	170
48561	42.00	45.00	3.00	-	-	7	-	-	2.1	40	79	91	5.4	25830	6	29	8	260
48562	45.00	46.00	1.00	-	-	2	-	-	1.6	45	65	106	.4	24980	2	28	10	162
48563	46.00	47.00	1.00	-	-	3	-	-	1.6	25	42	82	.1	28520	7	33	6	104
48564	47.00	50.00	3.00	-	-	2	-	-	2.0	31	33	114	.1	31640	5	35	7	110
48565	50.00	53.00	3.00	-	-	4	-	-	1.7	34	47	119	.1	25710	3	32	5	88
48566	53.00	56.00	3.00	-	-	14	-	-	2.1	35	26	135	.1	28170	3	30	12	114
48567	56.00	59.00	3.00	-	-	5	-	-	2.2	43	51	122	10.1	25960	9	32	12	535
48568	59.00	62.00	3.00	-	-	4	-	-	2.3	35	22	130	.1	32330	1	35	10	102
48569	62.00	65.00	3.00	-	-	6	-	-	1.8	43	41	271	.1	28570	4	32	9	145
48570	65.00	68.00	3.00	-	-	4	-	-	1.5	42	19	129	.1	26510	1	23	6	118
48571	68.00	71.00	3.00	-	-	2	-	-	3.1	22	44	85	.1	28920	1	25	5	58
48572	71.00	74.00	3.00	-	-	5	-	-	1.6	51	42	167	.1	38660	4	38	6	126
48573	74.00	77.00	3.00	-	-	19	-	-	7.4	61	34	207	.1	28980	9	28	2	119
48574	77.00	80.00	3.00	-	-	14	-	-	1.5	36	44	83	.1	29720	9	34	3	127
48575	80.00	83.00	3.00	-	-	13	-	-	1.5	44	4	250	1.0	40170	4	32	1	127
48576	83.00	86.00	3.00	-	-	11	-	-	1.3	32	21	126	.1	28890	11	32	1	111
48577	86.00	89.00	3.00	-	-	6	-	-	2.1	41	34	114	.8	28710	1	40	7	124
48578	89.00	92.00	3.00	-	-	7	-	-	2.0	41	23	103	.4	27210	1	25	4	137
48579	92.00	95.00	3.00	-	-	7	-	-	3.8	21	96	69	.1	22030	1	27	6	47
48580	95.00	98.00	3.00	-	-	4	-	-	2.4	30	1	170	.1	36650	2	35	2	99
48581	98.00	101.00	3.00	-	-	5	-	-	1.5	44	20	173	.1	30160	2	28	1	112
48582	101.00	104.00	3.00	-	-	7	-	-	1.3	43	1	213	.3	31390	4	23	3	137
48583	104.00	107.00	3.00	-	-	4	-	-	1.2	29	28	194	1.4	28220	3	27	1	112
48584	107.00	110.00	3.00	-	-	4	-	-	1.2	18	33	95	.1	17210	15	19	1	111
48585	110.00	113.00	3.00	-	-	6	-	-	1.6	35	15	144	8.2	22450	8	17	2	400
48586	113.00	116.00	3.00	-	-	7	-	-	2.8	63	52	140	18.0	29430	11	17	3	715
48587	116.00	119.00	3.00	-	-	10	-	-	2.0	39	34	164	.1	31790	4	25	1	139
48588	119.00	122.00	3.00	-	-	6	-	-	2.0	34	24	187	1.9	28640	3	26	1	164
48589	122.00	125.00	3.00	-	-	6	-	-	2.0	45	31	187	.9	26190	5	24	1	168
48590	125.00	128.00	3.00	-	-	5	-	-	1.6	26	39	175	.6	20450	1	29	1	107
48591	128.00	131.00	3.00	-	-	5	-	-	1.4	36	34	158	.1	27810	2	28	1	97
48592	131.00	134.00	3.00	-	-	9	-	-	.9	39	22	128	.1	27760	1	29	1	106
48593	134.00	137.00	3.00	-	-	5	-	-	1.2	30	55	141	.1	23940	2	22	1	94
48594	137.00	140.00	3.00	-	-	5	-	-	1.0	47	32	176	.1	24230	2	23	1	104
48595	140.00	143.00	3.00	-	-	6	-	-	2.0	44	18	172	.9	29390	2	31	1	142

Hole No.: 90-27

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
48596	143.00	145.79	2.79	-	-	8	-	-	1.8	46	34	164	.4	28010	3	22	1	218

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: M. REBAGLIATI/R. HASLINGER

MIN-EN LABS — ICP REPORT

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

90-27

FILE NO: 0S-0656-RJ1+2
DATE: 90/10/13
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48547	3.7	5220	429	30	153	1.6	1	1290	7.1	3	26	13950	2920	23	1670	136	7	80	3	70	77	21	4	1	1	3.5	186	1	1	1	84	410
48548	4.9	5200	369	17	154	1.2	1	1440	9.4	2	129	10660	2960	14	1250	97	6	60	1	70	520	47	4	1	1	2.5	826	1	1	1	102	487
48549	11.3	5170	412	12	156	.5	2	190	8.2	3	178	26220	3040	9	720	41	8	20	1	300	231	55	3	1	1	1.7	792	1	1	1	62	820
48550	2.8	4070	107	6	385	1.3	2	30700	.1	2	19	10420	1930	5	20970	1359	4	20	2	130	65	6	33	1	1	5.7	66	1	1	1	78	164
48551	8.7	5180	95	4	441	1.2	2	1530	.1	2	45	9090	2620	4	1270	252	17	40	4	150	99	12	4	1	1	1.7	103	1	1	1	107	291
48552	2.5	5680	82	3	535	1.9	2	3430	.1	2	18	10440	3300	3	1950	112	7	30	3	110	61	6	11	1	1	1.2	144	1	1	1	82	142
48553	1.5	8410	92	2	285	2.0	2	1700	.1	2	12	10120	4280	6	3100	86	4	60	2	70	58	5	5	1	1	1.3	178	1	1	1	60	48
48554	7.8	3350	848	2	126	.7	2	770	17.6	3	13	23590	1640	3	1270	42	6	210	1	40	50	41	3	1	1	.8	92	1	1	1	101	372
48555	2.8	7590	166	1	113	1.7	2	5240	.1	2	10	19180	2590	9	8270	111	9	120	1	70	46	7	11	1	1	2.5	235	2	1	1	75	153
48556	.7	3090	105	1	71	.7	1	5560	.4	3	12	15370	1820	2	2740	109	20	80	13	70	29	7	9	1	1	4.9	137	1	1	3	155	6
48557	1.9	5580	77	6	112	.8	2	17460	4.5	8	46	28880	3310	1	5590	565	6	120	16	1320	33	16	35	1	1	24.8	380	1	1	1	52	6
48558	2.0	6480	63	5	124	.8	1	16260	4.3	8	46	30550	3700	1	4700	682	5	250	15	900	30	18	32	1	1	34.0	285	1	1	1	60	6
48559	1.4	4320	64	4	81	.5	1	16810	.1	9	43	33060	2400	2	6110	739	3	210	20	700	31	11	27	1	1	19.4	149	1	1	1	35	4
48560	1.6	4710	54	4	90	.6	1	17110	.1	8	38	32710	2700	1	6000	770	4	220	18	700	33	10	35	1	1	21.4	170	1	1	1	51	1
48561	2.1	4740	79	4	91	.1	1	22130	5.4	7	40	25830	2620	2	4690	979	6	220	18	760	29	8	40	1	1	21.0	260	1	1	1	61	7
48562	1.6	4140	65	3	106	.1	2	22750	.4	7	45	24980	2040	2	4460	824	2	200	11	650	28	10	61	1	1	21.0	162	1	1	1	87	2
48563	1.6	5520	42	5	82	.5	2	26080	.1	7	25	28520	2550	2	6770	1139	7	290	6	1480	33	6	47	1	1	20.5	104	1	1	1	45	3
48564	2.0	5640	33	5	114	.6	1	25880	.1	7	31	31640	3120	1	7490	1115	5	220	8	1160	35	7	50	1	1	22.9	110	1	1	1	42	2
48565	1.7	5260	47	4	119	.5	2	20180	.1	7	34	25710	2940	1	5340	713	3	290	13	790	32	5	42	1	1	21.4	88	1	1	1	86	4
48566	2.1	6090	26	2	135	.4	1	8330	.1	7	35	28170	3250	2	3540	434	3	200	16	960	30	12	15	1	1	26.1	114	1	1	1	45	14
48567	2.2	6270	51	3	122	.1	2	13690	10.1	6	43	25960	3370	1	4240	536	9	220	12	1240	32	12	27	1	1	37.1	535	1	1	1	49	5
48568	2.3	6950	22	3	130	.7	1	17530	.1	7	35	32330	3700	1	5480	829	1	200	6	2330	35	10	33	1	1	24.1	102	1	1	1	26	4
48569	1.8	6590	41	3	271	.8	1	9910	.1	7	43	28570	3490	2	3720	515	4	230	20	1220	32	9	22	1	1	27.2	145	1	1	1	42	6
48570	1.5	7970	19	2	129	.3	1	14610	.1	7	42	26510	3530	4	5310	696	1	250	16	970	23	6	30	1	1	28.7	118	1	1	1	31	4
48571	3.1	18950	44	1	85	.5	2	83770	.1	7	22	28920	1240	32	39410	1956	1	60	4	550	25	5	141	1	1	35.1	58	2	2	1	17	2
48572	1.6	14660	42	3	167	.4	1	18000	.1	11	51	38660	3320	13	9580	925	4	260	12	1050	38	6	26	1	1	45.3	126	2	1	1	27	5
48573	7.4	11100	34	2	207	.5	1	13900	.1	7	61	28980	3420	8	4960	614	9	180	20	550	28	2	22	1	1	29.9	119	1	1	3	45	19
48574	1.5	10420	44	1	83	.6	1	4310	.1	10	36	29720	1880	10	5380	354	9	290	17	500	34	3	9	1	1	41.2	127	1	2	1	49	14
48575	1.5	16920	4	4	250	1.5	2	8560	1.0	10	44	40170	5670	9	6520	425	4	100	10	3120	32	1	25	1	1	18.2	127	1	1	1	1	13
48576	1.3	9740	21	2	126	.5	1	17580	.1	9	32	28890	2740	8	5850	1002	11	250	14	1160	32	1	22	1	1	31.8	111	1	1	1	34	11
48577	2.1	10820	34	34	114	1.0	1	11380	.8	8	41	28710	2730	32	5290	541	1	270	14	760	40	7	22	1	1	40.0	124	1	1	1	45	6
48578	2.0	15700	23	21	103	.7	1	23560	.4	8	41	27210	2140	32	13840	577	1	200	17	600	25	4	31	1	1	57.5	137	1	1	1	58	7
48579	3.8	14550	96	12	69	.3	3	107070	.1	6	21	22030	250	32	22820	2942	1	50	9	760	27	6	183	1	1	47.0	47	3	2	1	29	7
48580	2.4	17270	1	9	170	.5	2	48960	.1	8	30	36650	2310	21	11110	2238	2	150	10	880	35	2	78	1	1	37.4	99	1	1	1	31	4
48581	1.5	12900	20	5	173	.8	1	13270	.1	7	44	30160	3190	12	5770	542	2	260	13	650	28	1	25	1	1	41.8	112	1	1	1	43	5
48582	1.3	12990	1	4	213	.7	1	13190	.3	9	43	31390	3750	9	5640	513	4	230	17	1550	23	3	31	1	1	53.3	137	1	1	1	39	7
48583	1.2	13300	28	2	194	.6	1	23330	1.4	7	29	28220	3350	10	6440	1320	3	270	8	1080	27	1	31	1	1	27.3	112	1	1	1	40	4
48584	1.2	8340	33	1	95	.1	1	20440	.1	4	18	17210	1790	7	3930	636	15	430	7	710	19	1	35	1	1	21.4	111	1	1	1	82	4
48585	1.6	10660	15	1	144	.4	1	12770	8.2	6	35	22450	2960	7	4000	416	8	260	10	1110	17	2	29	1	1	51.6	400	1	1	1	69	6
48586	2.8	10070	52	1	140	.8	1	9640	18.0	7	63	29430	3600	5	3800	467	11	220	22	710	17	3	20	1	1	62.4	715	1	1	1	43	7
48587	2.0	11210	34	1	164	.6	1	12320	.1	7	39	31790	3800	5	4280	567	4	240	12	1100	25	1	18	1	1	53.4	139	1	1	1	57	10
48588	2.0	12390	24	1	187	.7	1	16710	1.9	7	34	28640	3490	8	4750	796	3	210	5	1150	26	1	32	1	1	45.1	164	1	1	1	44	6
48589	2.0	11180	31	1	187	.4	1	12590	.9	7	45	26190	3170	6	4020	455	5	340	16	770	24	1	26	1	1	58.9	168	1	1	2	92	6
48590	1.6	11300	39	1	175	.6	1	13270	.6	6	26	20450	3670	5	3580	406	1	240	8	950	29	1	24	1	1	33.5	107	1	1	1	61	5
48591	1.4	12820	34	1	158	.6	1	20000	.1	7	36	27810	3010	8	5700	737	2	300	8	760	28	1	34	1	1	40.8	97	1	1	1	62	5
48592	.9	11960	22	1	128	.6	1	11310	.1	7	39	27760	2950	8	5150	402	1	380	15	530	29	1	24	1	1	44.0	106	1	1	1	80	9
48593	1.2	11780	55	1	141	.4	1	22870	.1	6	30	23940	3080	7	5480	1051	2	330	10	800	22	1	36	1	1	35.4	94	1	1	1	67	5
48594	1.0	13250	32	1	176	.7	1	14620	.1	10	47	24230	3720	7	5280	707	2	310	5	1140	23	1	27	1	1	50.6	104	1	1	1	56	5
48595	2.0	14920	18	1	172	.6	1	7740	.9	7	44	29390	4290	9	7120	330	2	200	13	830	31	1	22	1	1	60.0	142	1	1	1	48	6
48596	1.8	15870	34	1	164	.9	1	5870	.4	8	46	28010	3740	12	9800	233	3	230	13	1150	22	1	14	1	1	66.1	218	1	1	1	53	8

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-28

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 104B/9	CLAIM #	: SIB 12		
LOCAL GRID	: 8602.48 N / 9993.10 E	GLOBAL GRID	: 12889.21 N / 17889.91 E	ELEVATION	: 1036.46 metres
LENGTH	: 206.65 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 297.0 degrees
OVERBURDEN	: 0.45 m	CASING	: 0.45 metres	ASSAYING BY	: Min-En labs
LOGGED BY	: Guy LePage	DRILLED BY	: J.T. Thomas	CORE LOCATION	: 101+00 N, 98+00 E
DATE LOGGED	: 1990/09/27 Y/M/D	DATE DRILLED	: 1990/09/25 Y/M/D	SAMPLE NO. SERIES	: 48597-48741

ACID TESTS

Depth	Dip	Azimuth
206.65	-42.0	297.0

SUMMARY LOG 90-28

From(m)	To(m)	Field Name (Legend)
0.00	0.45	CASING
0.45	32.16	ALTERED FRAGMENTAL (+-TUFF) (UNIT 11)
32.16	40.80	PLAGIOCLASE PORPHYRY TUFF (+FRAGMENTAL) (UNIT 11)
40.80	51.00	MUDSTONE (UNIT 12)
51.00	52.46	LAPILLI FRAGMENTAL/TUFF (UNIT 11)
52.46	56.84	WELDED TUFF (UNIT 11)
56.84	61.30	ARGILLACEOUS MUDSTONE-SILTSTONE+-CONGLOMERATE (UNIT 12)
61.30	154.97	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21)
154.97	206.65	ARGILLACEOUS MUDSTONE(+-SILTSTONE) (UNIT 31)
206.65		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-28

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
24.00	30.00	6.00	0.037			
45.00	46.00	1.00	0.016	0.34	0.11	0.18

From(m)	To(m)	Description
0.00	0.45	CASING
0.45	32.16	ALTERED FRAGMENTAL (+-TUFF) (UNIT 11) Plagioclase Phenocrysts: Weafly to moderately sericitized, average 0.6 to 0.8 mm in length. Composition Groundmass: Medium to light grey, aphanitic, plagioclase rich. Fragments: Volcanic(of similar composition), elongate, angular to sub-rounded, 1 to 2 mm up to 80 mm in length(average 20 to 25 in length). Structure Bedding: 70 to 80 degrees to core axis. Defined by long axis of volcanic fragments Jointing: 70 to 80 degrees to core axis. Alteration K-feldspar: Strong. Pink to grey pink in volcanic fragments. Flooding is strong pervasive from 24.00 to 32.00 metres. Sericite: Moderate. +Epidote green color to a relatively unaltered black to grey black plagioclase rich assemblege. Mineralization Pyrite: 3 to 4%. Disseminations and euhedral blebs, selvedges within chlorite veins at 70 to 80 degrees to core axis (mostly parallel to bedding) ranging from 0.5 to 30 mm in width(average 2 to 3 mm). Blebs and disseminations within calcite+-iron carbonate blebs and randomly oriented discontinuous veins.
32.16	40.80	PLAGIOCLASE PORPHYRY TUFF (+FRAGMENTAL) (UNIT 11) Composition Lithology: Similar to above, appears to be fining uphole. Fragments: Minor, tuffaceous, average 10 to 12 mm in length. Structure Bedding: 70 degrees to core axis. Defined by a fragments. Jointing: 70 degrees to core axis. Parallel to bedding. Sericite and kaolin altere from 38.17 to 38.36 metres. Locally sheared and gauged(rare). Alteration Sericite: Weak. Evident in plagioclase phenocrysts. Potassic: Weak. Local flooding (average 4 to 10 cm, up to 70 to 80%).

From(m)	To(m)	Description
		Mineralization Pyrite: Trace to 1%. Rare veins(average 2 to 3 mm in width at 70 degrees to core axis). Occasional medium coarse blebs associated with potassic altered zones toward the upper contact.
40.80	51.00	MUDSTONE (UNIT 12) Composition Mudstone: Black to blackish brown. Thinly laminated with alternating felsic and quartz rich layers oriented at 70 to 80 degrees to core axis grading to sub-vertical. Structure Jointing: parallel to bedding. Bedding: 70 to 80 degrees to core axis. Mineralization Pyrite: 1 to 2%. Discrete veinlets, clusters and disseminations oriented parallel to the bedding throughout(0.5 to 10 mm with an average of 1 to 2 mm in width(+-calcite+-quartz). Veins and Sub-Intervals Quartz-calcite Veining. Numerous hairline veinlets oriented parallel to bedding. <44.74>-<45.00>: FAULT. 70 to 80% gauge and minor quartz veining. Upper contact and lower contact unclear.
51.00	52.46	LAPILLI FRAGMENTAL/TUFF (UNIT 11) Composition Tuff: Grey to blackish grey, plagioclase porphyry tuffaceous horizons well bedding at 60 to 70 degrees to core axis interspersed volcanic fragments. Fragments: 5 mm to 90 mm in length(average 30 to 40 mm), long axis oriented parallel to bedding plane, varied degrees of sericite to k-feldspar alteration. Structure Bedding: 60 to 70 degrees to core axis. Mineralization Pyrite: Trace. Fine disseminations.
52.46	56.84	WELDED TUFF (UNIT 11) Plagioclase Phenocrysts: Subhedral to anhedral, welded and sericitized laths, oriented at 70 to 80 degrees to core axis, 1 to 2 mm average length.

From(m) To(m) ----------Description----------

Composition
Groundmass: Pale green grey to grey to light grey,aphanitic,sericitic grading to plagioclase rich.
Fragments: 5%. Angular, quartzose and felsic, randomly distributed throughout.
Structure
Jointing: 45 to 50 degrees to core axis. Parallel to quartz/iron carbonate veinlets.
Mineralization
Pyrite: Trace. Rare disseminations.
Veins
Quartz-iron carbonate Veining. Core axis angle 45 to 50 degrees. Occasional veinlets that croscut unit.
<56.62>-<56.84>: Quartz Veining. Core axis angle 3 to 5 degrees. Barren milky white vein.

56.84 61.30 ARGILLACEOUS MUDSTONE-SILTSTONE+-CONGLOMERATE (UNIT 12)
Composition
Mudstone: Black, well bedded, argillaceous, interbedded with minor silt-sandy intervals(over 3 to 5 cm) at 70 degrees to core axis.
Fragments: Interspersed with sediments, plagioclase porphyry, round to sub-round to elongate fragments oriented parallel to bedding. Alteration varies from intense k-feldspar flooding to silicification to intense sericitization-epidotization.
Mineralization
Pyrite: Trace. Fine disseminations(mostly associated with volcanic fragments) and occasional discontinuos veins blebs oriented at 60 to 70 degrees to core axis.
Veins
Quartz-calcite Veining. Core axis angle 60 to 70 degrees. +-Iron carbonate+-k-feldspar veins. Frequency >50/metres, <0.5 to 50 mm with an average of 4 to 5 mm in width. Most veins are devoid or contain trace amounts of pyrite.

61.30 154.97 ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21)
Sub-Intervals
<61.30>-<71.50>: Fragments(40 to 45%) are show strong potassic fragmental(70 to 80%) and contain 30 to 35% plagioclase phenocrysts 0.5 to 0.8 mm in length. Some bedding oriented at 70 to 80 degrees to

From(m) To(m) ----------Description----------

core axis defined by long axis of volcanic fragments(up to 40 mm wide, average 13 mm). Interstitial matrix is a black chloritic fine grained assemblege(+-plagioclase+-silica). Trace disseminated pyrite.

<71.50>-<80.25>: Decreased potassic flooding and increased albitization. Graded bedding indicates an uphole facing. Pyrite(trace to 0.5%) as fine disseminations and discrete veinlets oriented parallel to the bedding at 60 degrees to core axis.

<80.25>-<94.15>: Well bedded light to medium grey ash tuff grading to plagioclase porphyry tuff to heterolithic volcanic fragmental. Bedding oriented from 50 to 70 degrees to core axis and defined by felsic/quartzose layers and oriented black angular argillaceous fragments with sericite altered to silicified(+albite) volcanic fragments(average 8 to 12mm in length). Numerous chloritic(+-iron carbonate) veins oriented at 60 degrees to core axis upto 12 cm wide. Trace pyrite.

<94.15>-<127.40>: Intense sericite alteration of volcanic fragments. Bedding less well defined oriented at 60 degrees to core axis. Numerous sericite nodules chlorite veinlets(4 to 5 mm) interspersed with fragments. Matrix shows intense sericite alteration. Jointing parallel to bedding. Pyrite(trace to 2%) as veinlets oriented parallel to bedding(average 5mm wide), frequency of 0 to 5 per metre. Rare milky quartz veins oriented at 15 degrees to core axis.

<127.40>-<127.60>: FAULT. Gauge and broken core, contact unclear.

<127.60>-<128.30>: Same as from 94.15 to 127.40 metres.

<128.30>-<130.10>: FAULT. Poor recovery(1.43 metres recovery). Contact and planar orientations unclear.

<130.10>-<131.69>: Same as from 94.15 to 127.40 metres.

<131.69>-<150.66>: Increased quartz + k-feldspar veins +- quartz/iron carbonate stockwork. Black aphanitic plagioclase rich matrix(30 to 40%) , volcanic plagioclase porphyry fragments, angular to sub-angular, lack of preferred orientation. Milky quartz in veins oriented at 10 to 20 degrees to core axis.(average 35mm wide). Some brecciated black andesite fragments within quartz veins matrix. Increased potassic veining(3 to 5%), decreased sericite+-chlorite veining. Trace pyrite as

From(m) To(m) ----------Description----------

disseminations, selvedges.
<150.66>-<154.97>: Intense sericite and chlorite alteration. Similar to 94.15 to 131.69 metres. Trace pyrite and rare disseminated specs. Top contact gauged.

154.97 206.65 ARGILLACEOUS MUDSTONE(+-SILTSTONE) (UNIT 31)

Composition
Mudstone: Black to grey black, argillaceous, locally grading to siltstone with graded bedding indicating a fining downhole.
Carbonate: 20 to 30%. Carbonate rich horizons vary from mm up to 2 mm wide downhole.

Structure
Bedding: 60 degrees to core axis. Locally 45 to 50 degrees to core axis.
Jointing: parallel to bedding. With quartz+-iron carbonate+-calcite annealing.

Mineralization
Pyrite: Mostly syngenetic laminae oriented parallel to the bedding at 60 degrees to core axis (occasionally oriented at 45 to 50 degrees to core axis), 1 to 50 mm wide, average 4 to 5 mm wide.

Veins and Sub-Intervals
<154.97>-<156.70>: Quartz-iron carbonate Veining. Intense stockwork towards upper contact with intermittent quartz/argillite brecciated veins steadily decreasing in intensity downhole.
<167.95>-<171.70>: FAULT ZONE. Core badly broken, local gouge with intermittent zones of intense quartz+-iron carbonate stockwork veining. Predominent zone of planar deformation appears to brown at 60 to 70 degrees to core axis.
<189.03>-<191.32>: FAULT ZONE. 20 to 30% gouge material and broken core.
<205.74>-<207.94>: Quartz-iron carbonate Veining. Stockwork and veining.
<207.74>-<206.65>: FAULT ZONE. Upper contact at 60 degrees to core axis. 40% gouge.

206.65 END OF HOLE.

Hole No.: 90-28

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	.45	.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48597	.45	6.00	5.55	-	-	102	-	-	1.8	8	18	86	.1	32750	2	38	1	64
48598	6.00	9.00	3.00	-	-	99	-	-	1.7	7	18	68	.1	31210	2	31	1	65
48599	9.00	12.00	3.00	-	-	84	-	-	1.6	24	137	83	.9	22880	1	67	1	98
48600	12.00	15.00	3.00	-	-	182	-	-	1.6	31	353	105	6.5	27090	13	63	5	150
48601	15.00	18.00	3.00	-	-	236	-	-	3.2	59	20	103	.3	33180	1	268	1	665
48602	18.00	21.00	3.00	-	-	202	-	-	1.8	17	994	137	21.9	36870	2	49	8	65
48603	21.00	24.00	3.00	-	-	130	-	-	1.7	32	59	122	.1	25240	1	66	1	144
48604	24.00	27.00	3.00	1.19	.035	1060	-	-	2.0	29	1027	150	22.1	18860	2	142	6	87
48605	27.00	30.00	3.00	1.33	.039	1140	-	-	2.7	61	162	133	5.6	21070	1	238	1	623
48606	30.00	33.00	3.00	-	-	91	-	-	1.2	21	43	145	.1	27230	3	46	1	75
48607	33.00	36.00	3.00	-	-	59	-	-	2.1	14	1	141	.1	46370	3	46	1	79
48608	36.00	39.00	3.00	-	-	70	-	-	2.9	18	20	125	.1	31390	2	41	1	82
48609	39.00	42.00	3.00	-	-	104	-	-	3.2	33	12	125	1.2	32630	3	45	1	171
48610	42.00	45.00	3.00	-	-	194	-	-	5.8	37	69	97	2.7	32310	4	125	5	122
48611	45.00	46.00	1.00	-	-	535	-	-	11.5	542	83	114	11.8	35480	5	1107	6	1816
48612	46.00	49.00	3.00	-	-	61	-	-	3.7	43	31	115	.3	36480	1	51	5	90
48613	49.00	52.00	3.00	-	-	41	-	-	2.5	53	55	150	.1	33580	1	79	4	144
48614	52.00	55.00	3.00	-	-	44	-	-	1.3	31	57	87	.1	51890	2	18	1	117
48615	55.00	56.62	1.62	-	-	11	-	-	1.3	20	56	101	.1	52520	1	32	1	96
48616	56.62	57.50	.88	-	-	40	-	-	1.9	21	64	88	.1	32720	13	44	5	129
48617	57.50	58.50	1.00	-	-	20	-	-	2.0	28	85	137	.1	28030	17	52	13	134
48618	58.50	59.50	1.00	-	-	7	-	-	1.1	16	36	128	.1	16460	12	39	6	203
48619	59.50	60.50	1.00	-	-	1	-	-	1.7	7	20	120	.1	12770	1	32	1	132
48620	60.50	61.30	.80	-	-	3	-	-	1.8	8	6	137	.1	13970	1	27	1	119
48621	61.30	63.00	1.70	-	-	5	-	-	2.2	7	51	121	.1	11000	3	34	2	113
48622	63.00	66.00	3.00	-	-	1	-	-	1.5	7	25	146	.1	11050	2	43	1	98
48623	66.00	69.00	3.00	-	-	5	-	-	1.6	5	14	121	.1	11320	1	26	1	70
48624	69.00	72.00	3.00	-	-	3	-	-	1.2	7	57	236	.1	10810	2	54	1	124
48625	72.00	75.00	3.00	-	-	3	-	-	.8	6	35	125	.1	9440	7	140	1	295
48626	75.00	78.00	3.00	-	-	1	-	-	.9	6	44	113	.1	7950	2	38	1	133
48627	78.00	81.00	3.00	-	-	1	-	-	3.8	13	117	95	9.0	11590	2	915	2	931
48628	81.00	84.00	3.00	-	-	9	-	-	1.4	46	80	72	1.3	22310	3	135	1	388
48629	84.00	86.24	2.24	-	-	2	-	-	.7	29	57	145	.9	13000	5	110	2	191
48630	86.24	89.00	2.76	-	-	2	-	-	.4	10	48	167	.4	10480	9	33	1	111
48631	89.00	91.64	2.64	-	-	1	-	-	.6	7	52	179	1.3	10140	4	41	1	115
48632	91.64	92.05	.41	-	-	4	-	-	2.5	6	1	261	.1	9150	1	10	1	71
48633	92.05	94.15	2.10	-	-	3	-	-	.9	12	17	65	.1	20110	1	34	9	78
48634	94.15	97.38	3.23	-	-	2	-	-	1.6	7	1	168	.1	20140	1	11	1	100
48635	97.38	100.00	2.62	-	-	2	-	-	1.1	8	1	246	.1	16920	2	39	2	147
48636	100.00	100.29	.29	-	-	2	-	-	1.0	7	274	214	2.7	28260	6	40	12	123
48637	100.29	103.00	2.71	-	-	2	-	-	1.0	8	44	270	.1	14710	2	52	1	164
48638	103.00	106.00	3.00	-	-	1	-	-	1.0	7	18	304	.1	13380	1	37	1	156
48639	106.00	109.00	3.00	-	-	1	-	-	.6	6	1	280	.1	10520	1	31	1	137
48640	109.00	112.00	3.00	-	-	1	-	-	.6	6	22	192	.1	10210	1	34	1	129
48641	112.00	115.46	3.46	-	-	1	-	-	.8	7	60	146	.1	10930	4	39	2	132
48642	115.46	118.00	2.54	-	-	1	-	-	.7	14	44	225	.3	12990	6	36	2	136
48643	118.00	121.00	3.00	-	-	3	-	-	.8	7	19	287	1.5	11640	2	41	2	144
48644	121.00	124.00	3.00	-	-	2	-	-	.9	6	1	289	.1	13010	1	23	1	126
48645	124.00	127.00	3.00	-	-	3	-	-	1.0	6	1	314	.1	10820	1	34	1	130

Hole No.: 90-28

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
48646	127.00	127.58	.58	-	-	15	-	-	1.3	15	34	222	.1	11610	11	47	1	162
48647	127.58	128.00	.42	-	-	16	-	-	2.1	20	36	273	.1	10940	9	43	2	149
48648	128.00	129.00	1.00	-	-	5	-	-	1.9	8	1	317	.1	9290	1	41	1	135
48649	129.00	130.00	1.00	-	-	5	-	-	1.2	9	54	250	.1	10690	6	31	2	129
48650	130.00	131.69	1.69	-	-	59	-	-	1.6	9	102	159	.6	9660	6	40	2	123
48701	131.69	133.50	1.81	-	-	70	-	-	1.6	26	179	195	2.7	7090	2	96	3	148
48702	133.50	134.11	.61	-	-	81	-	-	6.0	8	136	1028	4.7	6720	1	1221	5	425
48703	134.11	135.00	.89	-	-	23	-	-	1.8	6	497	342	9.9	6710	3	54	7	57
48704	135.00	136.00	1.00	-	-	50	-	-	1.6	6	1640	216	29.2	8820	2	37	24	25
48705	136.00	137.00	1.00	-	-	33	-	-	1.6	6	831	173	17.5	9500	4	32	15	19
48706	137.00	138.00	1.00	-	-	30	-	-	1.2	5	606	319	10.9	9570	3	22	11	18
48707	138.00	139.00	1.00	-	-	12	-	-	1.4	4	12	162	.1	10500	1	33	1	28
48708	139.00	140.00	1.00	-	-	43	-	-	.7	4	141	158	1.2	6940	7	35	1	16
48709	140.00	140.90	.90	-	-	21	-	-	1.1	4	126	133	.1	6460	2	36	2	17
48710	140.90	141.33	.43	-	-	6	-	-	1.3	4	71	107	.1	10450	1	23	1	23
48711	141.33	143.92	2.59	-	-	31	-	-	2.3	5	284	123	2.7	14120	1	76	5	127
48712	143.92	144.27	.35	-	-	84	-	-	2.2	8	1288	185	20.9	19580	2	35	12	14
48713	144.27	145.52	1.25	-	-	45	-	-	2.1	9	357	163	3.9	13140	1	34	4	25
48714	145.52	146.55	1.03	-	-	62	-	-	2.1	7	458	173	7.4	14810	4	33	8	20
48715	146.55	147.90	1.35	-	-	160	-	-	4.7	32	484	218	10.6	21210	13	370	22	660
48716	147.90	150.66	2.76	-	-	311	-	-	3.1	33	1358	232	23.6	22170	2	138	22	356
48717	150.66	153.00	2.34	-	-	21	-	-	1.7	7	115	168	2.2	13100	3	40	4	127
48718	153.00	153.92	.92	-	-	21	-	-	1.9	7	129	200	.1	18120	4	44	5	155
48719	153.92	155.58	1.66	-	-	9	-	-	2.1	60	70	99	12.8	28980	13	34	28	851
48720	155.58	156.88	1.30	-	-	9	-	-	1.7	41	60	98	2.4	30910	3	30	19	122
48721	156.88	157.88	1.00	-	-	4	-	-	1.3	33	58	190	.1	28660	3	30	12	122
48722	157.88	160.00	2.12	-	-	6	-	-	2.0	67	41	143	1.3	24730	3	20	15	106
48723	160.00	161.00	1.00	-	-	7	-	-	2.5	59	99	118	.1	36880	1	26	23	163
48724	161.00	164.00	3.00	-	-	5	-	-	2.0	52	8	111	1.1	36710	1	24	19	210
48725	164.00	167.00	3.00	-	-	7	-	-	2.9	63	68	117	.7	37900	2	27	23	136
48726	167.00	169.00	2.00	-	-	7	-	-	2.4	72	44	90	5.5	37180	5	25	23	317
48727	169.00	171.43	2.43	-	-	4	-	-	1.6	36	25	56	6.9	22300	3	29	7	358
48728	171.43	174.53	3.10	-	-	5	-	-	1.2	26	34	380	1.1	23800	3	21	6	124
48729	174.53	177.00	2.47	-	-	5	-	-	1.1	19	42	245	.5	19610	4	21	3	162
48730	177.00	180.00	3.00	-	-	5	-	-	1.0	40	41	161	3.7	23100	6	19	5	339
48731	180.00	183.00	3.00	-	-	7	-	-	2.1	68	11	155	8.3	32550	8	39	6	516
48732	183.00	186.00	3.00	-	-	7	-	-	2.9	72	32	132	17.9	27930	15	32	7	937
48733	186.00	188.74	2.74	-	-	6	-	-	2.1	59	6	117	7.2	30350	6	18	6	416
48734	188.74	189.03	.29	-	-	6	-	-	1.8	50	48	96	2.8	32980	3	29	5	245
48735	189.03	192.00	2.97	-	-	5	-	-	1.5	33	65	93	2.0	28990	1	33	3	143
48736	192.00	195.00	3.00	-	-	7	-	-	1.7	42	4	124	.1	29540	1	25	3	131
48737	195.00	198.00	3.00	-	-	7	-	-	1.4	35	1	120	.1	27930	2	29	3	112
48738	198.00	199.00	1.00	-	-	14	-	-	1.6	37	35	146	6.1	24980	2	27	5	276
48739	199.00	202.00	3.00	-	-	14	-	-	2.0	32	24	120	2.1	25350	3	29	4	131
48740	202.00	204.74	2.74	-	-	14	-	-	2.7	35	28	157	.2	29930	1	26	6	135
48741	204.74	206.65	1.91	-	-	4	-	-	1.5	25	23	173	1.0	16440	5	20	3	91

COMP: COASTAL MOUNTAIN ENGINEERING

PROJ: SIB

ATTN: M. REBAGLIATI

MIN-EN LABS — ICP REPORT

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

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

90-28

FILE NO: 0S-0642-RJ1+D1+P2

DATE: 90/10/12

* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48597	1.8	12860	18	6	86	.3	1	18630	.1	11	8	32750	2680	9	17690	1302	2	90	1	1550	38	1	4	1	1	21.8	64	1	1	1	3	102
48598	1.7	10740	18	4	68	.3	1	8750	.1	13	7	31210	2700	7	8460	547	2	90	1	1770	31	1	6	1	1	17.3	65	1	1	1	9	99
48599	1.6	10640	137	3	83	.5	1	9140	.9	11	24	22880	2910	6	8470	570	1	100	1	1690	67	1	5	1	1	16.4	98	1	2	1	4	84
48600	1.6	13180	353	1	105	.3	1	12280	6.5	11	31	27090	2940	8	11480	1039	13	130	1	1520	63	5	6	1	1	20.9	150	1	1	1	4	182
48601	3.2	13660	20	1	103	.1	1	12880	.3	13	59	33180	3150	8	11830	956	1	90	1	1860	268	1	6	1	1	26.0	665	1	3	1	1	236
48602	1.8	9720	994	2	137	.1	1	8920	21.9	14	17	36870	4260	4	4500	375	2	110	1	2100	49	8	14	1	1	22.0	65	1	1	1	27	202
48603	1.7	9330	59	1	122	.1	1	5340	.1	10	32	25240	4180	4	3330	195	1	90	1	2160	66	1	9	1	1	21.8	144	1	1	1	1	130
48604	2.0	6900	1027	1	150	.5	1	5260	22.1	8	29	18860	4510	2	1450	123	2	120	1	1990	142	6	10	1	1	18.9	87	1	1	1	9	1060
48605	2.7	6140	162	2	133	.2	1	6280	5.6	8	61	21070	4230	1	2200	205	1	180	1	1810	238	1	13	1	1	15.1	623	1	1	1	6	1140
48606	1.2	12230	43	1	145	.5	1	5470	.1	10	21	27230	3930	6	6250	535	3	140	1	1390	46	1	6	1	1	22.7	75	2	1	1	1	91
48607	2.1	18930	1	2	141	.2	1	12050	.1	15	14	46370	3060	16	11060	982	3	110	1	530	46	1	3	1	1	40.2	79	1	1	1	1	59
48608	2.9	9560	20	1	125	.3	1	9920	.1	11	18	31390	3270	6	8510	751	2	630	1	710	41	1	4	1	1	19.9	82	1	1	1	1	70
48609	3.2	10110	12	1	125	.3	1	8000	1.2	11	33	32630	3160	7	9540	694	3	1180	1	810	45	1	4	1	1	19.3	171	1	1	1	1	104
48610	5.8	7980	69	1	97	.6	1	10940	2.7	11	37	32310	3000	6	8850	807	4	830	1	840	125	5	5	1	1	13.2	122	1	1	1	1	194
48611	11.5	9160	83	1	114	.8	1	5820	11.8	10	542	35480	3470	5	5550	536	5	860	3	840	1107	6	4	1	1	13.0	1816	1	1	1	1	535
48612	3.7	9730	31	16	115	1.1	1	12790	.3	13	43	36480	2990	7	11820	981	1	960	4	840	51	5	4	1	1	17.7	90	1	2	1	1	61
48613	2.5	11370	55	11	150	1.2	1	15720	.1	12	53	33580	3620	9	14310	851	1	870	1	790	79	4	3	1	1	21.7	144	1	1	1	4	41
48614	1.3	19830	57	8	87	1.4	1	14410	.1	12	31	51890	3230	14	18600	681	2	30	1	1240	18	1	5	1	1	27.1	117	2	3	1	1	44
48615	1.3	12770	56	8	101	1.6	1	14250	.1	19	20	52520	3930	9	18910	522	1	40	1	1600	32	1	6	1	1	29.5	96	1	3	1	1	11
48616	1.9	5670	64	5	88	.9	1	18670	.1	15	21	32720	3540	2	17130	603	13	930	12	930	44	5	10	1	1	16.5	129	1	2	2	27	40
48617	2.0	7170	85	4	137	1.5	1	20750	.1	10	28	28030	4130	2	14520	561	17	1170	19	470	52	13	14	1	1	17.4	134	1	2	1	3	20
48618	1.1	9430	36	3	128	2.4	1	11520	.1	5	16	16460	3990	9	11880	441	12	1180	15	400	39	6	6	1	1	11.8	203	1	1	1	13	7
48619	1.7	16100	20	4	120	2.2	1	19240	.1	3	7	12770	5140	16	26440	578	1	30	1	80	32	1	7	1	1	5.7	132	1	1	1	25	1
48620	1.8	19120	6	2	137	2.9	1	21960	.1	3	8	13970	5280	22	30570	587	1	30	1	70	27	1	10	1	1	5.9	119	1	2	1	15	3
48621	2.2	11500	51	1	121	1.9	2	23910	.1	2	7	11000	4340	10	15620	369	3	50	1	100	34	2	39	1	1	4.3	113	1	2	1	22	5
48622	1.5	12580	25	1	146	1.9	1	13280	.1	2	7	11050	4950	16	15530	134	2	70	1	90	43	1	29	1	1	3.7	98	1	1	1	22	1
48623	1.6	18450	14	2	121	2.2	1	11490	.1	2	5	11320	3970	34	27890	98	1	80	1	80	26	1	28	1	1	4.9	70	2	2	1	31	5
48624	1.2	12080	57	1	236	1.4	2	8340	.1	2	7	10810	3490	15	14470	58	2	90	1	50	54	1	17	1	1	3.0	124	1	1	1	36	3
48625	.8	15000	35	1	125	3.2	1	1240	.1	2	6	9440	4650	18	14310	29	7	40	3	60	140	1	5	1	1	2.3	295	1	1	1	25	3
48626	.9	10830	44	1	113	2.9	1	4420	.1	1	6	7950	4200	11	8760	43	2	60	1	70	38	1	6	1	1	1.9	133	1	1	1	29	1
48627	3.8	11820	117	12	95	2.7	1	7270	9.0	4	13	11590	3500	12	10960	323	2	80	12	130	915	2	10	1	1	11.0	931	1	1	1	111	1
48628	1.4	12110	80	7	72	1.7	1	15110	1.3	10	46	22310	2070	13	13510	623	3	90	15	690	135	1	26	1	1	22.1	388	1	1	3	112	9
48629	.7	12330	57	5	145	1.9	1	990	.9	3	29	13000	4180	10	8840	50	5	120	4	70	110	2	4	1	1	4.9	191	1	1	1	75	2
48630	.4	14320	48	4	167	2.2	1	660	.4	3	10	10480	3900	13	12560	38	9	80	1	90	33	1	3	1	1	4.4	111	2	1	3	105	2
48631	.6	16700	52	4	179	2.2	1	390	1.3	3	7	10140	4470	15	15210	21	4	120	4	50	41	1	3	1	1	4.7	115	1	1	2	92	1
48632	2.5	20450	1	2	261	3.2	1	41650	.1	3	6	9150	3720	28	50710	324	1	90	1	20	10	1	59	1	1	7.8	71	1	2	1	55	4
48633	.9	20590	17	1	65	1.8	1	1870	.1	6	12	20110	1380	47	35750	74	1	1390	3	20	34	9	5	1	1	35.6	78	1	2	1	58	3
48634	1.6	42570	1	2	168	3.7	1	13940	.1	4	7	20140	2890	119	68240	51	1	80	1	10	11	1	16	1	1	8.7	100	1	2	1	30	2
48635	1.1	31010	1	2	246	3.0	1	1580	.1	4	8	16920	4010	62	41660	36	2	130	1	50	39	2	5	1	1	6.7	147	1	1	1	32	2
48636	1.0	23930	274	2	214	2.4	1	1640	2.7	4	7	28260	4020	46	30660	14	6	100	1	70	40	12	5	1	1	3.8	123	2	2	1	49	2
48637	1.0	26980	44	1	270	3.3	1	550	.1	3	8	14710	4610	46	31860	29	2	140	1	60	52	1	4	1	1	3.7	164	2	1	1	28	2
48638	1.0	30190	18	1	304	3.5	1	570	.1	3	7	13380	5140	47	34520	25	1	230	1	70	37	1	5	1	1	3.7	156	2	2	1	48	1
48639	.6	29970	1	1	280	3.8	1	360	.1	2	6	10520	5430	44	32450	20	1	160	1	30	31	1	5	1	1	3.5	137	1	2	1	39	1
48640	.6	22880	22	1	192	3.1	1	360	.1	2	6	10210	3730	37	27830	22	1	140	1	70	34	1	4	1	1	3.1	129	1	1	1	43	1
48641	.8	17750	60	1	146	2.9	2	280	.1	2	7	10930	2510	30	23970	25	4	100	1	30	39	2	4	1	1	2.7	132	2	1	1	40	1
48642	.7	22800	44	1	225	3.3	1	340	.3	2	14	12990	4880	31	25610	22	6	190	1	50	36	2	4	1	1	3.2	136	2	1	1	52	1
48643	.8	27200	19	1	287	3.4	1	410	1.5	2	7	11640	6500	38	27920	22	2	130	2	30	41	2	5	1	1	3.3	144	2	2	1	32	3
48644	.9	32560	1	1	289	3.5	1	760	.1	3	6	13010	6510	51	36850	20	1	130	1	70	23	1	6	1	1	4.0	126	2	1	1	44	2
48645	1.0	27500	1	1	314	3.3	1	2420	.1	2	6	10820	6050	41	31250	22	1	110	1	80	34	1	7	1	1	3.7	130	2	1	1	46	3
48646	1.3	17990	34	1	222	1.9	2	7410	.1	3	15	11610	4950	19	19490	284	11	150	5	130	47	1	7	1	1	4.5	162	2	1	2	81	15
48647	2.1	17750	36	1	273	3.7	1	18210	.1	2	20	10940	5070	17	23570	118	9	100	5	110	43	2	24	1	1	4.3	149	2	2	1	43	16
48648	1.9	18820	1	1	317	3.9	1	23020	.1	2	8	9290	4990	18	31890	437	1	100	1	100	41	1	24	1	1	5.0	135	2	1	1	50	5
48649	1.2	23460	54	1	250	3.7	2	4130	.1	2	9	10690	6240	26	25400	92	6	90	4	70	31	2	6	1	1	3.4	129	2	1	1	41	5
48650	1.6	14670	102	1	159	2.1	2	6570	.6	2	9	9660	4280	13	15780	79	6	90	1	110	40	2	13	1	1	2.9	123	2	1	1	70	59
48701	1.6	5450	179	1	195	.8	2	4300	2.7	1	26	7090	2720	3	2870	39	2	1980	8	70	96	3	11	1	1	1.8	148	1	1	2	116	70
48702	6.0	3350	136	1	1028	.3	2	11580	4.7	1	8	6720	1510	2	2820	107	1	1640	4	60	1221	5	23	1	1	2.1	425	1	1	3	149	81
48703	1.8	6580	497	1	342	1.4	1	23900	9.9	2	6	6710	2820	6	17030	495	3	960	5	80	54	7	42	1	1	4.0	57	1	1	1	73	23
48704	1.6	5190	1640	1	216	.6	2	24590	29.2	2	6	8820	1690	6	16030	376	2	90	4	110	37	24	67	1	1	4.2	25	1	1	2	109	50
48705	1.6	3370	831	1	173	.5	1	25340	17.5	2	6	9500	1570	3	16790	660	4	890	4	60	32	15	75	1	1	4.0	19	1	1	1	81	33
48706	1.2	2980	606	1	319	.5	2	24410	10.9	2	5	9570	1140	3	14490	555	3	30	4	80	22	11	70	1	1	3.7	18	1	1	1	98	30

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: M. REBAGLIATI

MIN-EN LABS — ICP REPORT

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

90-28

FILE NO: 05-0642-RP3+J4
DATE: 90/10/12
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48707	1.4	10280	12	9	162	.8	1	41840	.1	3	4	10500	1430	12	40190	3654	1	30	4	50	33	1	100	1	1	7.4	28	1	1	1	28	12
48708	.7	4710	141	4	158	.4	1	15720	1.2	1	4	6940	1200	5	8400	686	7	30	3	50	35	1	46	1	1	3.3	16	1	1	1	70	43
48709	1.1	5690	126	3	133	.4	1	28240	.1	2	4	6460	1180	7	13200	1512	2	30	3	50	36	2	106	1	1	4.9	17	1	1	1	74	21
48710	1.3	9760	71	2	107	.2	2	34490	.1	2	4	10450	960	12	16350	1408	1	20	1	110	23	1	108	1	1	6.6	23	1	1	3	94	6
48711	2.3	11210	284	2	123	.1	2	68510	2.7	3	5	14120	940	13	20500	2519	1	10	2	110	76	5	168	1	1	8.4	127	2	1	1	26	31
48712	2.2	4200	1288	2	185	.2	2	51340	20.9	3	8	19580	1000	4	7330	1466	2	20	1	70	35	12	120	1	1	4.9	14	1	1	1	42	84
48713	2.1	9550	357	1	163	.9	2	52870	3.9	3	9	13140	1750	9	21400	2047	1	20	2	70	34	4	139	1	1	7.0	25	1	1	1	19	45
48714	2.1	6000	458	1	173	.6	2	45000	7.4	3	7	14810	1930	5	15290	1446	4	20	4	50	33	8	115	1	1	5.4	20	1	1	1	24	62
48715	4.7	4300	484	3	218	.6	2	12540	10.6	7	32	21210	2900	1	4250	265	13	1510	16	610	370	22	21	1	1	12.5	660	1	1	1	69	160
48716	3.1	4900	1358	4	232	.5	2	13320	23.6	6	33	22170	3060	1	4800	286	2	80	1	410	138	22	27	1	1	8.1	356	1	1	1	45	311
48717	1.7	6500	115	1	168	1.7	2	18500	2.2	2	7	13100	3990	3	10690	373	3	40	1	70	40	4	41	1	1	3.6	127	1	1	1	40	21
48718	1.9	5390	129	3	200	1.0	1	23390	.1	3	7	18120	3390	1	16710	502	4	40	1	100	44	5	63	1	1	4.2	155	1	1	1	27	21
48719	2.1	5240	70	4	99	.6	1	20840	12.8	7	60	28980	3540	1	6710	618	13	1110	31	1310	34	28	53	1	1	32.3	851	1	1	1	34	9
48720	1.7	5140	60	5	98	.4	1	21790	2.4	8	41	30910	3200	1	7250	993	3	110	17	680	30	19	34	1	1	17.3	122	1	1	1	20	9
48721	1.3	5880	58	15	190	.6	1	20920	.1	8	33	28660	3470	1	5970	865	3	220	19	1130	30	12	24	1	1	17.7	122	1	1	1	20	4
48722	2.0	5260	41	4	143	.2	1	39100	1.3	6	67	24730	2800	1	5440	767	3	200	14	760	20	15	49	1	1	22.7	106	1	2	1	25	6
48723	2.5	6700	99	4	118	.3	1	13020	.1	10	59	36880	3710	1	5170	552	1	170	33	1090	26	23	18	1	1	25.9	163	1	1	1	10	7
48724	2.0	6240	8	5	111	.3	1	20740	1.1	9	52	36710	3520	1	7390	1080	1	170	24	1280	24	19	28	1	1	27.3	210	1	1	1	12	5
48725	2.9	6010	68	5	117	.5	2	33180	.7	9	63	37900	3360	1	6170	1783	2	190	27	930	27	23	45	1	1	32.0	136	1	1	1	12	7
48726	2.4	5120	44	3	90	.2	1	17710	5.5	10	72	37180	3090	1	5230	894	5	140	29	700	25	23	18	1	1	30.7	317	1	1	1	9	7
48727	1.6	4370	25	4	56	.4	2	19280	6.9	5	36	22300	2560	2	5210	953	3	200	10	640	29	7	27	1	1	17.1	358	1	1	1	58	4
48728	1.2	5940	34	2	380	.7	2	13970	1.1	5	26	23800	3470	2	3980	739	3	250	3	780	21	6	22	1	1	15.1	124	1	1	1	53	5
48729	1.1	5980	42	1	245	.7	2	25540	.5	4	19	19610	3410	2	3740	1265	4	210	5	630	21	3	41	1	1	11.2	162	1	1	1	46	5
48730	1.0	7880	41	1	161	.4	2	13460	3.7	6	40	23100	3600	3	3320	848	6	310	15	710	19	5	27	1	1	32.5	339	1	1	1	58	5
48731	2.1	9440	11	2	155	.3	1	14420	8.3	8	68	32550	3700	6	4270	998	8	1490	21	930	39	6	27	1	1	45.7	516	1	1	1	26	7
48732	2.9	7190	32	1	132	.4	1	7840	17.9	8	72	27930	3620	3	3040	461	15	3300	32	560	32	7	13	1	1	69.8	937	1	1	1	20	7
48733	2.1	7200	6	5	117	.6	1	14640	7.2	9	59	30350	3680	3	4910	830	6	250	25	830	18	6	24	1	1	43.8	416	1	1	1	25	6
48734	1.8	6270	48	4	96	.5	1	22450	2.8	10	50	32980	3420	3	5980	1222	3	1480	20	1040	29	5	54	1	1	29.2	245	1	1	1	25	6
48735	1.5	6590	65	3	93	.3	1	31290	2.0	6	33	28990	3190	4	6280	1434	1	1630	9	850	33	3	63	1	1	24.9	143	1	1	1	21	5
48736	1.7	8870	4	2	124	.7	1	13640	.1	8	42	29540	3590	6	5240	574	1	240	19	950	25	3	24	1	1	31.2	131	1	1	1	24	7
48737	1.4	8810	1	8	120	.3	1	19420	.1	8	35	27930	3390	6	5210	835	2	1270	18	1090	29	3	33	1	1	29.8	112	1	1	1	29	7
48738	1.6	7600	35	7	146	.2	1	12620	6.1	7	37	24980	4010	3	3340	525	2	1060	15	910	27	5	24	1	1	26.8	276	1	1	1	36	14
48739	2.0	8490	24	6	120	.2	2	16470	2.1	7	32	25350	3580	6	5290	704	3	1190	11	900	29	4	33	1	1	31.7	131	1	1	2	56	14
48740	2.7	16430	28	6	157	.7	1	33080	.2	7	35	29930	3660	16	20030	732	1	1070	15	1020	26	6	63	1	1	39.8	135	3	3	1	22	14
48741	1.5	6580	23	4	173	.5	1	15080	1.0	4	25	16440	3090	3	5540	365	5	1270	8	580	20	3	34	1	1	14.6	91	1	1	1	49	4

MIN
• EN
LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

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90-28

Geochemical Analysis Certificate

OS-0642-RG1

Company: COASTAL MOUNTAIN ENGINEERING
Project: SIB
Attn: M. REBAGLIATI

Date: OCT-12-90
Copy 1. COASTAL MOUNTAIN, VANCOUVER, B.C.
2. COASTAL MOUNTAIN, SMITHERS, B.C.

He hereby certify the following Geochemical Analysis of 2 CORE samples submitted OCT-09-90 by GUY LEPAGE.

Sample Number	AU g/tonne	AU oz/ton
48604	1.19	.035
48605	1.33	.039

Certified by _____

MIN-EN LABORATORIES

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-29

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 104B/9	CLAIM #	: SIB 12		
LOCAL GRID	: 9006.56 N / 9977.02 E	GLOBAL GRID	: 13257.28 N / 18057.42 E	ELEVATION	: 1124.86 metres
LENGTH	: 142.65 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 297.0 degrees
OVERBURDEN	: 1.44 m	CASING	: 1.44 metres.	ASSAYING BY	: Min-En Labs
LOGGED BY	: Guy LePage	DRILLED BY	: J.T. Thomas	CORE LOCATION	: 101+00 N, 98+00
DATE LOGGED	: 1990/10/01 Y/M/D	DATE DRILLED	: 1990/09/27 Y/M/D	SAMPLE NO. SERIES	: 48743-48830

ACID TESTS

Depth	Dip	Azimuth
133.50	-40.5	297.0
139.60	-41.0	297.0

SUMMARY LOG 90-29

From(m)	To(m)	Field Name (Legend)
0.00	1.44	CASING
1.44	70.80	LAPILLI FRAGMENTAL (UNIT 11)
70.80	78.64	ARGILLACEOUS MUDSTONE (UNIT 12)
78.64	92.00	PLAGIOCLASE PORPHYRY TUFF (UNIT 11)
92.00	99.77	CONGLOMERATE (UNIT 13)
99.77	118.73	PLAGIOCLASE PORPHYRY TUFF+- VOLCANIC FRAGMENTAL (UNIT 13)
118.73	125.67	ARGILLACEOUS MUDSTONE (UNIT 12)
125.67	142.65	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21)
142.65		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-29

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
65.30	65.80	0.50	0.010			
66.30	66.80	0.50	0.012			
69.80	70.30	0.50	0.015			
70.80	72.54	1.74	0.011	0.20	0.41	0.29

From(m)	To(m)	Description
0.00	1.44	CASING
1.44	70.80	LAPILLI FRAGMENTAL (UNIT 11) Plagioclase Phenocrysts: 40%, euhedral to subhedral, weak to moderately sericitized, average 0.6 to 0.8 mm in length. Composition Groundmass: Light to medium grey, aphanitic, plagioclase rich assemblege. Fragments: 30 to 40%. 3 mm to 15 cmm in width(average 20 to 30 mm), sub-angular to sub-rounded, occasional orientation of long axis at 60 to 70 degrees to core axis. Structure Jointing: 60 degrees to core axis. Lower contact: 60 degrees to core axis. Alteration K-feldspar: Moderate to Strong. 1.44 to 26.82 m. shows strong pervasive flooding of lapilli fragments with less intense flooding of plagioclase rich groundmass(locally 70 to 80% secondary k-feldspar) . 16.87 to 41.00 m. shows decreased potassic alteration and i`iron carbonate alteration and sericite alteration of plagioclase phenocrysts. 41.00 to 70.80 m. shows increased potassic alteration reaching 80 to 90%. Mineralization Galena: 1%. At 45.0 metres in a chalcedonic quartz vein. Sphalerite: From 12.20 to 55.00 metres is a black , botryoidal mineral with hardness 3 to 4 (sphalerite?, Psilomane?) as selvedges within milky quartz veins from sub-parallel to 30 degrees to core axis. Interval is intermittintly cross-cut by aphanitic, blue-grey chalcedonic quartz veins at 60 degrees to core axis. Veins and Sub-Intervals Iron carbonate-quartz Veining. Core axis angle 60 degrees. Also sub-parallel to 20 to 30 degrees to core axis. 0.5 to 20 mm in width(average 4 to 5 mm). Chloritic Veining. Core axis angle 60 degrees. Less commonly at 30 to 40 degrees to core axis. 0.5 to 30 mm in width(average 1 to 2 mm). <1.44>-<53.00>: Pyrite 2 to 4% as euhedral blebs and in veins(+-chlorite+-calcite+-quartz) from 0.5 to 15 mm in width(average 3 to 4 mm) oriented at 45 to 50 degrees

From(m) To(m) ----------Description----------

to core axis(frequency 5 to 10 per metre. Pyrite also as clusters and veinlets along margins of volcanic fragments.

<41.00>-<41.08>: Quartz-iron carbonate-calcite Veining. Core axis angle 60 degrees. Intense veining +k-feldspar. Tightly folded in places.

<53.00>-<63.80>: Pyrite 4 to 5%. Disseminations, euhedral blebs, selvedges within chalcedonic quartz veins, k-feldspar veinlets and quartz/k-feldspar stockwork. Selvedges within chloritic veinlets. All veining at varied degrees to core axis.

<63.80>-<70.80>: Zone of intense potassic flooding and cross cut by milky to semi-translucent chalcedonic quartz(+-calcite+-iron carbonate) stockwork and veinlets. Pyrite 5 to 8% mostly as euhedral blebs, disseminations and selvedges in veins and stockwork. Galena 1 to 2 %, sphalerite trace to 1% mostly as blebs and disseminations in the quartz stockwork.

70.80 78.64 ARGILLACEOUS MUDSTONE (UNIT 12)

Composition

Mudstone: Black, argillaceous.

Structure

Jointing: 60 to 65 degrees to core axis.

Bedding: 60 to 65 degrees to core axis.

Mineralization

Pyrite: 8 to 10%. Well laminated, laminations oriented mostly at 60 to 70 degrees to core axis(0.5 to 20 mm, average 5 to 7 mm in width). 72.54 to 78.04 metres has 1 to2% pyrite concordant to the layering at 60 to 70 degrees to core axis(0.5 to 2.0 mm width, average 1 mm).

Veins and Sub-Intervals

Calcite-iron carbonate Veining. Numerous hairline veins, frequency 50 per metre.

<75.59>-<75.75>: Locally gouged, planar movement has occurred at 70 degrees to core axis.

<77.00>-<77.20>: Locally gouged, planar movement has occurred at 70 degrees to core axis.

78.64 92.00 PLAGIOCLASE PORPHYRY TUFF (UNIT 11)

Plagioclase Phenocrysts: Euhedral to subhedral, moderately to strongly sericitized, average 0.8 mm in length(35 to 40%).

From(m)	To(m)	Description
		Composition Groundmass: Medium to light grey, fine grained, aphanitic, plagioclase rich. Fragments: Interbedded with minor felsic to siliceous rounded fragments. Structure Bedding: 70 degrees to core axis. Jointing: parallel to bedding. Alteration Albite: Localized towards upper contact. Bleached: Localized throughout. Mineralization Pyrite: Trace. Veins Calcite-chlorite-iron carbonate Veining. Core axis angle 60 to 70 degrees. Cross-cut bedding, frequency 3 to 4 per metre.
92.00	99.77	CONGLOMERATE (UNIT 13) Composition Clasts: Heterolithic, rounded to sub-rounded, tuffaceous to argillaceous, 4 to 5 mm up to 9 cm in length with an average 30 mm length. Clasts are a pale green to medium green grading to deep green(intense sericite alteration) groundmass with euhedral to subhedral plagioclase phenocrysts averaging 1 mm in length. Lesser % of clasts are siliceous(chalcedonic). Matrix: Interstitial to the clasts are a plagioclase+-chlorite assemblege or interbeds of plagioclase porphyry. Mineralization Pyrite: Trace to 1%. Euhedral coarse blebs and rare disseminations.
99.77	118.73	PLAGIOCLASE PORPHYRY TUFF+- VOLCANIC FRAGMENTAL (UNIT 13) Composition Lithology: Similar to above. Fragments: The unit contains an abundance of siliceous(pale green to pale brown to brown) fragments, angular to sub-angular, with long axis oriented at 70 to 80 degrees to core axis. Mineralization Pyrite: Trace. Rare blebs within quartz veins.

From(m) To(m) ----------Description----------

Veins and Sub-Intervals
<104.31>-<106.71>: Interval overprinted by a pale green grading to creamish-green, aphanitic(albitic?) assemblege.
<106.54>-<107.72>: Quartz-iron carbonate-calcite Veining. Core axis angle 60 to 70 degrees. Interval cross cut by high angle veins. Frequency 20 per metre, average 4 to 5 mm in width.
<112.75>-<115.21>: Strongly sericitized, contains 10 to 15% angular argillaceous fragments averaging 4 to 5 mm in length.
<116.00>-<117.00>: Quartz Veining. Core axis angle 50 to 60 degrees. Milky veins, average 20 to 30 mm width, frequency 5 per metre, also contains minor iron carbonate+-quartz stockwork at 45 degrees to core axis.

118.73 125.67 ARGILLACEOUS MUDSTONE (UNIT 12)
Composition
Mudstone: Fine grained, argillaceous, well bedded.
Structure
Bedding: 70 to 80 degrees to core axis. well bedded.
Mineralization
Pyrite: 2 to 3%. Layers of syngenetic pyrite+-calcite oriented parallel to the bedding plane, average width 1.0 mm.
Veins and Sub-Intervals
Quartz Veining. Core axis angle 60 degrees. Cross cut unit. Range from 3mm to 17 cm in width(average 35 mm), frequency 10 to 15 per metre, +-calcite+-iron carbonate.
<119.18>-<124.00>: FAULT. Upper contact and lower contact unclear but probably parallel to veins at 60 degrees to core axis. Core is badly broken, locally gouged and graphitic throughout.

125.67 142.65 ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21)
Composition
Groundmass: Fine grained, blackish grey to grey, aphanitic, siliceous grading to chloritic.
Fragments: 20 to 25%. Generally angular to sub-rounded and overprinted by an intense sericite-chlorite alteration assemblege.
Mineralization
Pyrite: Trace. Rare blebs.
Veins
<139.50>-<141.80>: Calcite-iron carbonate-stockwork Veining. Intermittently cross cut unit.

142.65 END OF HOLE.

Hole No.: 90-29

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	1.44	1.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48742	1.44	4.00	2.56	-	-	45	-	-	.8	17	11	74	.1	27860	1	246	1	31
48743	4.00	7.00	3.00	-	-	179	-	-	1.0	25	96	72	.6	34720	4	164	1	342
48744	7.00	10.00	3.00	-	-	130	-	-	1.2	15	40	69	.1	30180	4	69	1	138
48745	10.00	13.00	3.00	-	-	89	-	-	1.3	16	71	78	1.1	28440	4	69	3	212
48746	13.00	13.34	.34	-	-	53	-	-	.6	12	32	111	1.0	27590	1	51	3	132
48747	13.34	15.31	1.97	-	-	50	-	-	.5	12	32	80	.1	32460	2	69	1	135
48748	15.31	16.00	.69	-	-	40	-	-	.7	9	56	109	.1	26840	3	24	1	171
48749	16.00	17.07	1.07	-	-	58	-	-	.7	9	83	110	.4	31870	2	48	1	38
48750	17.07	19.00	1.93	-	-	62	-	-	.9	7	66	88	.1	35380	2	29	1	56
48751	19.00	21.00	2.00	-	-	78	-	-	.7	7	76	92	.4	28720	1	19	1	12
48752	21.00	23.00	2.00	-	-	59	-	-	1.1	7	87	98	.1	29790	1	24	1	52
48753	23.00	24.00	1.00	-	-	36	-	-	.8	8	49	100	.1	22610	6	18	1	68
48754	24.00	24.67	.67	-	-	107	-	-	1.1	11	123	76	2.2	28490	6	41	1	13
48755	24.67	26.82	2.15	-	-	111	-	-	1.4	7	127	68	.1	27580	4	28	1	13
48756	26.82	29.00	2.18	-	-	103	-	-	1.1	7	104	65	2.1	31650	2	29	3	11
48757	29.00	31.00	2.00	-	-	98	-	-	1.0	8	119	91	2.0	29220	1	33	2	64
48758	31.00	32.00	1.00	-	-	65	-	-	1.1	9	96	78	.6	30140	2	60	6	24
48759	32.00	34.00	2.00	-	-	47	-	-	1.3	10	55	81	.1	41080	3	53	1	65
48760	34.00	36.00	2.00	-	-	18	-	-	1.2	17	48	91	.1	36420	1	36	1	82
48761	36.00	39.00	3.00	-	-	42	-	-	1.1	19	32	81	.1	36700	2	29	1	68
48762	39.00	41.00	2.00	-	-	18	-	-	1.0	25	6	82	.1	34430	1	33	4	82
48763	41.00	41.68	.68	-	-	68	-	-	1.3	10	75	84	.5	32510	1	26	2	56
48764	41.68	43.05	1.37	-	-	52	-	-	.9	11	86	99	.2	40390	2	25	4	32
48765	43.05	45.00	1.95	-	-	58	-	-	1.0	20	143	189	.6	31980	1	24	9	36
48766	45.00	45.30	.30	-	-	92	-	-	3.8	45	165	93	2.9	31340	1	2251	11	355
48830	45.30	47.00	1.70	-	-	118	-	-	1.1	59	91	126	.3	31130	1	54	1	60
48767	47.00	49.00	2.00	-	-	83	-	-	.9	13	72	98	.1	21720	1	157	1	68
48768	49.00	49.73	.73	-	-	114	-	-	1.1	9	63	115	.1	25660	1	142	1	60
48769	49.73	52.09	2.36	-	-	81	-	-	1.0	12	67	167	.8	22730	1	30	1	14
48770	52.09	52.79	.70	-	-	76	-	-	.8	11	51	131	.1	24480	2	26	1	14
48771	52.79	55.00	2.21	-	-	83	-	-	1.0	5	94	101	.1	20640	1	20	1	14
48772	55.00	57.84	2.84	-	-	89	-	-	.8	10	72	79	.8	24990	1	20	1	13
48773	57.84	58.30	.46	-	-	196	-	-	1.3	12	137	141	.6	30860	4	35	1	67
48774	58.30	60.00	1.70	-	-	96	-	-	.7	10	91	135	.1	26480	1	25	1	23
48775	60.00	60.74	.74	-	-	137	-	-	.7	6	114	150	1.3	28720	1	21	1	11
48776	60.74	61.46	.72	-	-	92	-	-	1.3	10	143	164	3.2	27660	2	30	10	29
48777	61.46	62.50	1.04	-	-	176	-	-	1.2	10	148	104	3.6	23430	2	70	6	65
48778	62.50	63.80	1.30	-	-	152	-	-	1.2	14	138	187	.4	28590	1	167	2	46
48779	63.80	64.30	.50	-	-	162	-	-	1.3	34	110	177	1.4	24890	1	198	3	40
48780	64.30	64.80	.50	-	-	311	-	-	1.1	18	256	153	4.9	35590	1	81	9	139
48781	64.80	65.30	.50	-	-	248	-	-	1.5	62	207	158	4.2	28880	2	217	16	351
48782	65.30	65.80	.50	-	-	359	-	-	3.6	45	257	142	3.9	32480	1	1634	16	201
48783	65.80	66.30	.50	-	-	200	-	-	1.4	11	145	154	1.5	19620	1	80	1	32
48784	66.30	66.80	.50	-	-	418	-	-	1.2	12	268	163	3.6	25620	1	68	6	33
48785	66.80	67.30	.50	-	-	241	-	-	1.0	14	249	152	4.8	32280	1	42	3	52
48786	67.30	67.80	.50	-	-	306	-	-	1.0	20	156	103	2.4	30470	1	30	4	107
48787	67.80	68.30	.50	-	-	313	-	-	1.0	20	195	164	3.9	30120	1	32	2	71
48788	68.30	68.80	.50	-	-	233	-	-	1.5	27	198	159	1.7	27890	1	37	3	120
48789	68.80	69.30	.50	-	-	225	-	-	1.6	23	226	199	2.1	31410	1	79	6	139

Hole No.: 90-29

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
48790	69.30	69.80	.50	-	-	209	-	-	2.0	32	226	152	4.4	27170	5	49	16	256
48791	69.80	70.30	.50	-	-	514	-	-	2.7	32	321	140	5.6	43730	4	71	65	146
48792	70.30	70.80	.50	-	-	295	-	-	2.6	28	253	98	5.3	29650	5	394	16	622
48793	70.80	71.30	.50	-	-	422	-	-	5.9	46	352	120	11.9	63150	3	2204	32	2304
48794	71.30	71.80	.50	-	-	357	-	-	6.5	216	186	95	11.4	56280	3	2142	11	2263
48795	71.80	72.54	.74	-	-	323	-	-	7.9	84	203	80	19.5	80120	2	6749	16	3704
48796	72.54	73.50	.96	-	-	77	-	-	2.7	69	66	135	.1	44000	1	214	3	254
48797	73.50	75.00	1.50	-	-	35	-	-	2.3	56	48	272	.1	45290	2	524	4	350
48798	75.00	77.00	2.00	-	-	14	-	-	1.7	52	45	98	.1	36630	2	35	3	129
48799	77.00	78.64	1.64	-	-	12	-	-	1.1	54	15	104	.1	36020	5	50	1	101
48800	78.64	81.00	2.36	-	-	11	-	-	.9	25	50	321	.5	28070	1	29	1	62
48801	81.00	84.00	3.00	-	-	7	-	-	.6	5	1	88	.1	33860	2	30	1	81
48802	84.00	87.00	3.00	-	-	11	-	-	.4	5	6	112	.1	26640	1	33	1	85
48803	87.00	90.00	3.00	-	-	1	-	-	.9	6	4	172	.1	32630	1	24	1	63
48804	90.00	91.80	1.80	-	-	2	-	-	.6	5	1	150	.1	34110	1	23	1	63
48805	91.80	94.00	2.20	-	-	18	-	-	.7	8	1	539	.1	33890	1	39	1	73
48806	94.00	97.00	3.00	-	-	3	-	-	.6	15	1	314	.1	35790	1	29	1	64
48807	97.00	99.77	2.77	-	-	49	-	-	.5	11	1	255	.1	26710	1	25	1	58
48808	99.77	103.00	3.23	-	-	12	-	-	.5	6	1	144	.1	31670	1	26	1	68
48809	103.00	104.31	1.31	-	-	21	-	-	.7	8	389	273	8.1	42590	1	34	2	101
48810	104.31	106.71	2.40	-	-	1	-	-	1.1	22	170	173	.1	51940	1	29	10	128
48811	106.71	107.00	.29	-	-	3	-	-	.9	10	72	141	.1	44480	1	28	1	115
48812	107.00	110.00	3.00	-	-	1	-	-	1.0	28	1	554	.1	45810	1	41	2	100
48813	110.00	112.75	2.75	-	-	2	-	-	.7	22	9	89	.1	39400	1	20	2	95
48814	112.75	115.50	2.75	-	-	2	-	-	.9	22	29	131	.1	18430	1	20	3	77
48815	115.50	116.74	1.24	-	-	1	-	-	.8	25	54	238	.3	33750	1	27	5	184
48816	116.74	118.26	1.52	-	-	1	-	-	1.2	141	17	108	.1	38160	1	23	24	145
48817	118.26	119.18	.92	-	-	1	-	-	1.2	53	39	97	.1	35610	5	65	2	252
48818	119.18	121.00	1.82	-	-	6	-	-	1.3	155	11	86	7.6	30660	17	147	3	651
48819	121.00	124.00	3.00	-	-	6	-	-	2.0	49	1	120	1.3	34350	38	69	8	367
48820	124.00	125.00	1.00	-	-	8	-	-	1.9	50	34	75	6.6	32440	28	60	10	573
48821	125.00	125.67	.67	-	-	5	-	-	1.7	51	31	65	.1	31290	29	64	5	264
48822	125.67	128.00	2.33	-	-	2	-	-	1.2	7	10	106	.1	8670	3	25	1	122
48823	128.00	131.00	3.00	-	-	4	-	-	1.4	7	17	145	.1	9990	3	34	1	115
48824	131.00	134.00	3.00	-	-	2	-	-	1.2	6	6	99	.1	7900	2	34	1	93
48825	134.00	137.00	3.00	-	-	4	-	-	1.3	6	36	117	.1	8400	1	40	1	99
48826	137.00	139.30	2.30	-	-	1	-	-	1.1	6	53	102	.1	9450	3	31	1	102
48827	139.30	141.24	1.94	-	-	1	-	-	1.2	5	27	93	.1	8320	1	41	1	98
48828	141.24	142.16	.92	-	-	5	-	-	1.2	7	14	104	.1	9160	1	35	1	112
48829	142.16	142.65	.49	-	-	5	-	-	.8	5	42	106	.1	7970	1	34	1	100

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: M. REBAGLIATI/ R. HASLINGER

MIN-EN LABS — ICP REPORT

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

90-29

FILE NO: OS-0640-RJ1+2
DATE: 90/10/11
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48742	.8	8860	11	7	74	.4	1	5970	.1	8	17	27860	2220	6	7520	364	1	80	1	1610	246	1	7	1	1	33.7	31	2	1	1	6	45
48743	1.0	8130	96	5	72	.2	1	5060	.6	10	25	34720	2030	6	6970	330	4	60	1	1560	164	1	7	1	1	29.8	342	1	1	1	2	179
48744	1.2	12160	40	3	69	.1	1	9560	.1	9	15	30180	1850	9	12160	703	4	90	1	1440	69	1	10	1	1	49.6	138	2	3	1	15	130
48745	1.3	6720	71	5	78	.1	1	9200	1.1	11	16	28440	2690	4	8220	694	4	80	1	1460	69	3	13	1	1	23.7	212	1	1	1	21	89
48746	.6	4240	32	3	111	.4	1	4190	1.0	12	12	27590	3010	1	2190	202	1	70	1	1560	51	3	8	1	1	10.8	132	1	1	1	36	53
48747	.5	6720	32	1	80	.2	1	3710	.1	9	12	32460	2700	3	4860	238	2	130	1	1370	69	1	7	1	1	17.4	135	1	1	1	38	50
48748	.7	6560	56	1	109	.1	1	4880	.1	8	9	26840	2330	4	6090	316	3	50	1	1400	24	1	8	1	1	20.4	171	1	1	1	55	40
48749	.7	3620	83	1	110	.3	1	4290	.4	9	9	31870	2430	1	2330	149	2	50	1	1390	48	1	8	1	1	11.5	38	1	1	1	56	58
48750	.9	3630	66	1	88	.2	1	4460	.1	10	7	35380	2160	1	3010	177	2	40	1	1400	29	1	8	1	1	11.8	56	1	1	1	29	62
48751	.7	3160	76	1	92	.1	1	5360	.4	9	7	28720	2650	1	2180	143	1	100	1	1520	19	1	8	1	1	8.9	12	1	1	1	24	78
48752	1.1	4160	87	2	98	.1	1	7920	.1	11	7	29790	3000	1	3680	277	1	130	1	1620	24	1	12	1	1	12.1	52	1	3	1	50	59
48753	.8	3240	49	1	100	.2	1	5090	.1	8	8	22610	2780	1	1010	100	6	90	1	1450	18	1	7	1	1	8.7	68	1	1	1	67	36
48754	1.1	2920	123	1	76	.1	1	4340	2.2	9	11	28490	2320	1	970	82	6	150	1	1310	41	1	6	1	1	8.7	13	1	1	1	51	107
48755	1.4	3320	127	1	68	.1	1	8680	.1	8	7	27580	2360	1	1760	200	4	130	1	1250	28	1	6	1	1	10.1	13	1	1	1	32	111
48756	1.1	3530	104	2	65	.4	1	5700	2.1	10	7	31650	2500	1	1700	110	2	130	1	1600	29	3	7	1	1	9.5	11	1	1	1	25	103
48757	1.0	4860	119	1	91	.3	1	4500	2.0	10	8	29220	2850	2	3340	198	1	130	1	1540	33	2	7	1	1	13.6	64	1	1	1	23	98
48758	1.1	4730	96	1	78	.5	1	4550	.6	10	9	30140	2930	1	2460	177	2	200	1	1450	60	6	6	1	1	13.0	24	1	1	1	39	65
48759	1.3	8410	55	1	81	.5	2	12490	.1	12	10	41080	2810	5	9250	765	3	140	1	1520	53	1	6	1	1	23.2	65	1	1	1	17	47
48760	1.2	9620	48	1	91	.6	1	23420	.1	12	17	36420	2680	6	11880	1463	1	100	1	1520	36	1	5	1	1	26.1	82	2	1	1	18	18
48761	1.1	8660	32	1	81	.1	1	17750	.1	13	19	36700	2650	5	10280	1087	2	130	1	1600	29	1	6	1	1	28.1	68	1	1	1	18	42
48762	1.0	7870	6	2	82	.2	1	12610	.1	13	25	34430	2700	6	11280	974	1	120	1	1580	33	4	10	1	1	25.9	82	2	1	1	11	18
48763	1.3	4460	75	2	84	.2	1	13450	.5	13	10	32510	3220	1	4040	492	1	60	1	1530	26	2	18	1	1	12.3	56	1	1	1	39	68
48764	.9	5490	86	4	99	.5	1	6310	.2	13	11	40390	3620	1	3970	291	2	70	1	1660	25	4	10	1	1	14.6	32	1	1	1	26	52
48765	1.0	4710	143	3	189	.7	1	7180	.6	11	20	31980	3310	1	5360	363	1	50	1	1410	24	9	12	1	1	14.3	36	1	1	1	19	58
48766	3.8	3160	165	1	93	.2	1	7040	2.9	11	45	31340	2660	1	630	135	1	60	1	1460	2251	11	11	1	1	10.7	355	1	1	1	62	92
48767	.9	3120	72	1	98	.2	1	3810	.1	8	13	21720	2470	1	270	30	1	120	1	1610	157	1	7	1	1	9.6	68	1	1	1	42	83
48768	1.1	2900	63	1	115	.1	1	6710	.1	9	9	25660	2480	1	250	102	1	40	1	1320	142	1	7	1	1	8.8	60	1	1	1	57	114
48769	1.0	3140	67	1	167	.1	1	3880	.8	9	12	22730	2740	1	230	31	1	80	1	1600	30	1	7	1	1	9.6	14	1	1	1	31	81
48770	.8	2860	51	1	131	.4	1	4890	.1	9	11	24480	2570	1	240	58	2	50	1	1500	26	1	8	1	1	8.9	14	1	1	1	33	76
48771	1.0	3110	94	1	101	.1	1	5450	.1	7	5	20640	2670	1	280	52	1	80	1	1500	20	1	8	1	1	9.4	14	1	1	1	40	83
48772	.8	2690	72	9	79	.5	1	5050	.8	9	10	24990	2310	1	860	100	1	80	1	1650	20	1	10	1	1	9.5	13	1	1	1	18	89
48773	1.3	5010	137	6	141	.2	1	3680	.6	9	12	30860	3780	1	410	36	4	60	1	1330	35	1	7	1	1	15.0	67	1	1	1	43	196
48774	.7	5440	91	5	135	.2	1	4680	.1	9	10	26480	4020	1	530	55	1	110	1	1650	25	1	11	1	1	19.7	23	1	1	1	28	96
48775	.7	5330	114	3	150	.1	1	6250	1.3	10	6	28720	4220	1	410	85	1	110	1	1610	21	1	17	1	1	23.2	11	1	1	1	27	137
48776	1.3	4620	143	3	164	.2	1	4260	3.2	9	10	27660	3530	1	380	32	2	70	1	1650	30	10	8	1	1	17.7	29	1	1	1	49	92
48777	1.2	2590	148	2	104	.1	1	3470	3.6	8	10	23430	2040	1	180	21	2	60	1	1330	70	6	7	1	1	9.6	65	1	1	1	52	176
48778	1.2	4100	138	2	187	.1	1	3300	.4	9	14	28590	3050	1	230	13	1	80	1	1470	167	2	8	1	1	14.8	46	1	1	1	35	152
48779	1.3	5280	110	2	177	.3	1	8160	1.4	8	34	24890	3780	1	310	95	1	150	1	1640	198	3	13	1	1	17.4	40	1	1	1	67	162
48780	1.1	4200	256	2	153	.2	1	3670	4.9	10	18	35590	3230	1	220	15	1	90	1	1450	81	9	8	1	1	14.7	139	1	1	1	49	311
48781	1.5	4790	207	2	158	.1	1	3530	4.2	9	62	28880	3440	1	250	15	2	110	1	1520	217	16	8	1	1	16.0	351	1	1	1	54	248
48782	3.6	4240	257	2	142	.4	1	3140	3.9	8	45	32480	3120	1	200	17	1	60	1	1190	1634	16	6	1	1	13.8	201	1	1	1	62	359
48783	1.4	4820	145	2	154	.3	1	18060	1.5	6	11	19620	3520	1	320	312	1	110	1	1440	80	1	6	1	1	14.2	32	1	1	2	58	200
48784	1.2	5070	268	2	163	.4	1	6430	3.6	8	12	25620	3870	1	260	74	1	90	1	1640	68	6	6	1	1	15.1	33	1	1	1	55	418
48785	1.0	3100	249	2	152	.2	1	3930	4.8	10	14	32280	2390	1	200	15	1	60	1	1580	42	3	7	1	1	9.7	52	1	1	1	28	241
48786	1.0	3090	156	1	103	.2	1	3950	2.4	9	20	30470	2350	1	180	17	1	80	1	1580	30	4	8	1	1	9.6	107	1	1	1	34	306
48787	1.0	4820	195	1	164	.1	1	4340	3.9	9	20	30120	3360	1	260	22	1	140	1	1630	32	2	8	1	1	13.5	71	1	1	1	41	313
48788	1.5	5510	198	2	159	.1	1	11030	1.7	8	27	27890	3820	1	290	104	1	110	1	1610	37	3	28	1	1	13.9	120	1	1	1	51	233
48789	1.6	8430	226	2	199	.1	1	4620	2.1	10	23	31410	5370	1	420	24	1	150	1	1630	79	6	10	1	1	20.4	139	1	1	1	44	225
48790	2.0	4880	226	1	152	.2	1	8370	4.4	8	32	27170	3510	1	250	81	5	110	1	1280	49	16	15	1	1	13.4	256	1	1	1	44	209
48791	2.7	5590	321	3	140	.1	1	12090	5.6	11	32	43730	3890	1	310	113	4	100	1	1470	71	65	19	1	1	13.5	146	1	1	1	31	514
48792	2.6	3360	253	1	98	.1	1	15720	5.3	9	28	29650	2390	1	240	140	5	60	1	1560	394	16	23	1	1	7.2	622	1	1	1	17	295
48793	5.9	5460	352	4	120	.2	1	16890	11.9	18	46	63150	3660	1	480	240	3	60	1	1330	2204	32	22	1	1	14.8	2304	1	1	1	12	422
48794	6.5	4220	186	3	95	.6	1	4260	11.4	23	216	56280	2850	1	520	80	3	30	1	990	2142	11	6	1	1	14.1	2263	1	1	1	4	357
48795	7.9	5370	203	4	80	.1	1	7180	19.5	24	84	80120	2370	2	2740	302	2	30	1	820	6749	16	6	1	1	44.7	3704	1	1	1	2	323
48796	2.7	5980	66	3	135	.7	1	30720	.1	15	69	44000	3320	1	11650	1288	1	60	1	910	214	3	35	1	1	24.1	254	1	1	1	1	77
48797	2.3	8860	48	4	272	.8	1	19790	.1	15	56	45290	3780	4	11070	885	2	70	4	980	524	4	9	1	1	29.6	350	3	2	1	1	35
48798	1.7	13570	45	2	98	.7	1	23110	.1	14	52	36630	2250	9	10440	914	2	40	4	930	35	3	11	1	1	21.4	129	2	1	1	1	14
48799	1.1	18210	15	2	104	.8	1	13580	.1	16	54	36020	2580	13	9270	567	5	50	4	970	50	1	6	1	1	26.8	101	2	1	1	1	12
48800	.9	13400	50	1	321	.5	1	11200	.5	10	25	28070	2170	7	5650	412	1	90	1	1190	29	1	8	1	1	30.9	62	1	1	1	12	11
48801	.6	12250	1	1	88	.6	1	6410	.1	11	5	33860	1870	7	5740	449	2	60	1	270	30	1	4	1	1	16.2	81	1	1	1	1	7

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: M. REBAGLIATI/ R. HASLINGER

MIN-EN LABS — ICP REPORT

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

90-29

FILE NO: OS-0640-RD3+P3
DATE: 90/10/11
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48802	.4	14160	6	8	112	.6	1	6020	.1	9	5	26640	2630	8	5440	310	1	80	1	290	33	1	3	1	1	23.5	85	1	1	1	3	11
48803	.9	15340	4	5	172	.4	1	15050	.1	9	6	32630	3410	7	5190	566	1	200	1	560	24	1	5	1	1	38.6	63	1	1	1	18	1
48804	.6	13760	1	3	150	.2	1	9470	.1	10	5	34110	3100	6	4760	365	1	190	1	460	23	1	5	1	1	38.2	63	2	1	1	8	2
48805	.7	9220	1	2	539	.1	1	10320	.1	9	8	33890	3280	5	4760	317	1	190	1	1020	39	1	9	1	1	31.5	73	1	1	1	15	18
48806	.6	11930	1	2	314	.3	1	9240	.1	9	15	35790	3350	6	4530	288	1	170	1	1090	29	1	7	1	1	38.3	64	1	1	1	7	3
48807	.5	9120	1	1	255	.3	1	7350	.1	8	11	26710	3760	5	4400	218	1	160	1	760	25	1	4	1	1	33.3	58	1	1	1	15	49
48808	.5	7890	1	3	144	.5	1	12770	.1	9	6	31670	3830	4	6170	389	1	170	1	610	26	1	5	1	1	29.7	68	1	1	1	7	12
48809	.7	8090	389	8	273	.6	1	15700	8.1	14	8	42590	4290	1	10110	657	1	80	1	550	34	2	7	1	1	21.6	101	1	1	1	1	21
48810	1.1	7370	170	9	173	.4	1	21570	.1	19	22	51940	3680	2	14580	959	1	90	1	1440	29	10	11	1	1	29.7	128	2	2	1	1	1
48811	.9	8720	72	5	141	.5	1	14480	.1	14	10	44480	3930	4	12820	535	1	90	1	660	28	1	9	1	1	15.9	115	1	1	1	1	3
48812	1.0	8600	1	4	554	.3	1	14450	.1	14	28	45810	3330	11	16730	622	1	70	3	420	41	2	6	1	1	17.0	100	1	2	1	1	1
48813	.7	7020	9	1	89	.7	1	6470	.1	13	22	39400	3060	5	12650	312	1	60	1	180	20	2	2	1	1	15.8	95	2	1	1	1	2
48814	.9	8500	29	1	131	.8	1	10300	.1	8	22	18430	4380	5	9170	316	1	70	1	220	20	3	3	1	1	9.9	77	2	1	1	21	2
48815	.8	7920	54	2	238	.7	1	14790	.3	12	25	33750	4370	1	17130	378	1	60	1	120	27	5	6	1	1	10.9	184	1	2	1	1	1
48816	1.2	8410	17	3	108	1.2	1	14590	.1	14	141	38160	4340	3	21480	456	1	60	7	600	23	24	7	1	1	10.1	145	1	1	1	1	1
48817	1.2	8310	39	11	97	.8	1	14850	.1	12	53	35610	4130	13	18460	356	5	950	1	300	65	2	8	1	1	15.3	252	1	1	1	5	1
48818	1.3	12500	11	6	86	.9	1	16660	7.6	12	155	30660	3810	12	16650	347	17	1590	8	250	147	3	14	1	1	16.4	651	1	1	1	14	6
48819	2.0	15090	1	5	120	1.6	1	30030	1.3	9	49	34350	4470	13	27880	646	38	2640	37	480	69	8	31	1	1	47.0	367	1	1	1	23	6
48820	1.9	12710	34	4	75	1.2	1	24220	6.6	10	50	32440	3680	13	22850	386	28	1640	52	680	60	10	33	1	1	48.0	573	1	2	1	18	8
48821	1.7	14560	31	3	65	1.1	1	20640	.1	9	51	31290	3210	14	22600	496	29	1960	45	560	64	5	18	1	1	46.7	264	1	2	1	33	5
48822	1.2	14760	10	2	106	2.6	1	10270	.1	2	7	8670	5180	12	12680	153	3	80	1	70	25	1	8	1	1	4.6	122	1	1	1	25	2
48823	1.4	21590	17	2	145	4.0	1	18470	.1	2	7	9990	7480	18	17650	354	3	100	1	10	34	1	5	1	1	4.6	115	2	1	1	51	4
48824	1.2	14490	6	1	99	2.7	1	16990	.1	2	6	7900	5370	9	8940	232	2	140	1	10	34	1	20	1	1	3.2	93	1	1	2	50	2
48825	1.3	18990	36	1	117	3.2	1	11910	.1	2	6	8400	6870	12	12890	247	1	150	1	10	40	1	7	1	1	3.1	99	2	1	1	46	4
48826	1.1	15840	53	1	102	2.4	1	8020	.1	2	6	9450	4870	14	14580	185	3	110	1	10	31	1	7	1	1	2.9	102	1	1	1	41	1
48827	1.2	16640	27	1	93	2.6	1	7930	.1	2	5	8320	5220	13	14300	162	1	100	1	80	41	1	10	1	1	2.9	98	1	1	1	38	1
48828	1.2	18050	14	1	104	3.5	1	13060	.1	2	7	9160	6100	13	14250	291	1	80	1	40	35	1	6	1	1	3.1	112	2	1	1	33	5
48829	.8	16390	42	1	106	3.3	1	5140	.1	2	5	7970	6210	11	11590	183	1	80	1	10	34	1	5	1	1	2.5	100	1	1	1	38	5
48830	1.1	5830	91	3	126	.1	1	8430	.3	9	59	31130	4010	1	870	141	1	80	1	1580	54	1	13	1	1	16.1	60	1	1	1	18	118

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-30

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 104B/9	CLAIM #	: SIB 12		
LOCAL GRID	: 8840.00 N / 9675.00 E	GLOBAL GRID	: 13244.48 N / 17712.76 E	ELEVATION	: 983.74 metres
LENGTH	: 137.46 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 117.0 degrees
OVERBURDEN	: 2.29 m	CASING	: 2.29 metres	ASSAYING BY	: Min-En Labs
LOGGED BY	: Guy Lepage	DRILLED BY	: J.T. Thomas	CORE LOCATION	: 101+00 N, 98+00
DATE LOGGED	: 1990/10/03 Y/M/D	DATE DRILLED	: 1990/09/29 Y/M/D	SAMPLE NO. SERIES	: 48831-48940

ACID TESTS

Depth	Dip	Azimuth
137.46	-39.5	117.0

SUMMARY LOG 90-30

From(m)	To(m)	Field Name (Legend)
0.00	2.29	CASING
2.29	52.17	ALTERED VOLCANIC FRAGMENTAL (UNIT 21)
52.17	74.14	ARGILLACEOUS MUDSTONE - GRAPHITIC (UNIT 22)
74.14	137.46	ALTERED VOLCANIC FRAGMENTAL (UNIT 21)
137.46		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-30

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
52.20	57.70	5.50	0.005	0.127		
57.70	58.91	1.21	0.418	2.060		
58.91	61.41	2.50	0.121	5.074		
61.41	66.50	5.09	0.869	50.244		
66.50	69.50	3.00	0.051	5.863		
69.50	72.00	2.50	0.254	61.414		
72.00	74.14	2.14	0.093	4.653		
74.14	75.00	0.86	0.029	0.460		
75.00	77.00	2.00	0.017			
Containing:						
57.70	72.00	14.30	0.421	30.912		
57.70	74.14	16.44	0.378	27.494		

From(m)	To(m)	Description
0.00	2.29	CASING
2.29	52.17	ALTERED VOLCANIC FRAGMENTAL (UNIT 21) Composition Groundmass: Dark to medium grey, aphanitic, plagioclase rich. Fragments: 30 to 50%. Angular to sub-angular, tuffaceous to felsic. Tuffaceous clasts consist of euhedral to subhedral strongly sericitized plagioclase phenocrysts average 0.5mm in length within a fine grained plagioclase rich groundmass(plagioclase 30 to 35%). Most fragments show strong sericite, albite alteration and silicification thus destroying textures. Structure Jointing: 45 to 60 degrees to core axis. Alteration Silicification: Strong. +Albite, white pervasive assemblege(70%). K-feldspar: Moderate. Localized flooding(20%) of fragments. Sericite: Moderate. +-K-feldspar, pervasive assemblege. Limonitic: On jointing/fracture surfaces which generally parallel late stage veining, common throughout the interval(reaching 1 to 2 % over 1 m.) From 41.90 to 42.50 metres staining reaches 2 to 3%. Manganese oxide: (elongate. pyrolusite), common on fracture surfaces(trace to 0.5%, mostly dendritic habits. Mineralization Arsenopyrite: Trace to 1%. At 17.50 metres as euhedral blebs. Veins and Sub-Intervals Chlorite-sericite Veining. Core axis angle 45 to 60 degrees. Less commonly at 20 to 30 degrees to core axis, interspersed throughout. Green veins from mm up to 25 mm in width(average 5 to 8mm). Also occur wrapping around volcanic fragments. Iron carbonate-calcite-quartz Veining. Core axis angle 55 to 60 degrees. Lesser extent 20 to 30 degrees to core axis. Postdate unit, 0.5 to 40 mm in width(average 3 to 5 mm). <2.29>-<33.36>: Pyrite trace to 0.5%. Blebs, occasional disseminations, rarely associated with chloritic veinlets. <33.36>-<35.97>: Pyrite 5 to 10%. Mostly as flattened and oriented blebs and veins from 0.2 to 12mm in width(average 2 to 3mm) +-calcite+-

From(m) To(m) ----------Description----------

chlorite+-k-feldspar occuring interstitial to the pyrite and enclosing pyrite selvedges throughout at 50 to 60 degrees to core axis, frequency >50 per metre. Heavily k-feldspar flooded throughout.

<35.97>-<52.17>: Pyrite trace to 0.5%. Rare disseminations, blebs and clusters associated with chlorite. Discrete veinlets oriented at 30 degrees to core axis and rarely associated with the margins of volcanic fragments.

52.17 74.14 ARGILLACEOUS MUDSTONE - GRAPHITIC (UNIT 22)

Composition

Mudstone: Black, argillaceous, interbedded with syngenetic pyrite beds(3 to 10%) oriented between 15 and 20 degrees to core axis. Bed vary from 0.3mm up to 40mm with and average of 6 to 8mm in true width. Some pyrite laminations were also noted oriented at 50 to 60 degrees to core axis.

Structure

Jointing: 60 to 70 degrees to core axis. To a lesser extent 15 to 20 degrees to core axis.

Alteration

K-feldspar: Nil. No detected alteration.

Mineralization

GOLD: From 59.91 to 65.05 metres. Visible gold occurring as disseminated specs from 0.2 up to 0.6mm in diameter occurring within pyrite+stibnite veins/stockwork and on the margins of the veins/stockwork. Average width of visible gold 0.25 to to 0.3 mm, frequency 3 to 4 specks per 10cm of core.

Stibnite: From 59.91 to 65.05 metres. Silver metallic luster, hardness from 2.5 to 3.0, reddish brown streak, occurs in association with possible galena and pyrite(trace) in veins and stockwork. Radiating circular habits in places.

Veins and Sub-Intervals

Calcite-iron carbonate Veining. Veining throughout.

<52.17>-<59.91>: Quartz-chlorite-iron carbonate Veining. Core axis angle 10 to 15 degrees. From 0.4 to 15mm wide(average 5 to 7mm), frequency 3 to 4 per metre. Contain rare traces of pyrite.

<52.17>-<59.91>: Pyrite 5 to 7%. Fine laminations, disseminations and in veins(syngenetic) up to 40mm in width(average 0.4mm) nostly

From(m) To(m) ----------Description----------

oriented at 10 to 20 degrees to core axis. Also associated with calcite + quartz in tight folds in fault zone.

<55.67>-<58.10>: FAULT ZONE. Locally gouged with badly broken core throughout. Upper contact and lower contact unclear, planar orientations in graphitic gouge zones along with the orientation of calcite+quartz+iron carbonate veins(average 3mm wide) suggest movement at 50 to 60 degrees to core axis.

<59.91>-<62.44>: Increased pyrite(7 to 10%) and stibnite(trace) net veining and stockwork from a syngenetic laminations style of mineralization. Veins are dw(0.4mm to 4cm wide, average 4 to 5mm. Stibnite can occur as radiating acicular needles. Calcite(1 to2%) as an accessory in veinlets with galena as elongate acicular crystals parallel to the calcite crystals.

<62.44>-<65.05>: Similar to above but increased pyrite(8 to 10%)and stibnite(4 to 6%).

<65.05>-<74.14>: Marked drease in stibnite(trace to 0.5%) and slight decrease in disseminated pyrite(5 to 7%). Decreased veining (from 0.2 to 10mm in width, average 2.0mm) and stockwork mineralization. Pyrite veins predominantly oriented at 60 degrees to core axis grading to 15 to 20 degrees to core axis towards 74.14 metres.

<71.60>-<72.58>: FAULT ZONE. Upper contact at 45 degrees to core axis, lower contact unclear. Core badly broken and graphitic gouge(50 to 60%). Localized quartz stockwork over 5 to 8 cm sometimes brecciated. Upper and lower contact of unit unclear.

74.14 137.46 ALTERED VOLCANIC FRAGMENTAL (UNIT 21)

Composition

Groundmass: Dark grey to medium grey, aphanitic, plagioclase rich, +-chlorite.

Fragments: 30 to 45%. Selvedges of tuffaceous and felsic fragments, angular, 1 to 2mm up to 40mm in width(average 20 to 25mm), oriented at 30 to 35 degrees to core axis(defined by tuffaceous interbeds and the long axis of fragments).

Sub-Intervals

<74.14>-<89.00>: Pyrite(10 to 15%) associated with minor chlorite veins from 0.3 to 45.0mm in width(average 1.0 to 2.0mm), frequency > 50 per metre, oriented at 60 degrees to core axis. To a lesser

From(m) To(m) ----------Description----------

extent as fine grained disseminations and blebs. Mostly silicified volcanic fragments.

<89.00>-<106.50>: Well bedded andesitic tuff at 50 to 60 degrees to core axis interbedded with minor volcanic fragments(5 to 10%). Relatively unaltered, pyrite(trace to 0.5%) as rare disseminations and blebs.

<106.50>-<137.46>: Similar to 2.29 to 52.17 metres. Pyrite(trace to 0.5%) as rare disseminations and blebs. Silicification and albite alteration of volcanic fragments with rare k-feldspar alteration. Minor brecciated intrusions(siliceous with argillaceous to volcanic angular fragments) from 89.90 metres.

137.46 END OF HOLE.

Hole No.: 90-30

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
48831	2.29	5.00	2.71	-	-	2	-	-	1.3	77	67	74	1.6	9850	3	42	8	125
48832	5.00	7.41	2.41	-	-	1	-	-	.5	7	73	30	.1	8080	2	23	4	90
48833	7.41	8.00	.59	-	-	1	-	-	.4	9	65	50	.1	8150	2	26	3	120
48834	8.00	11.00	3.00	-	-	2	-	-	.8	7	41	66	.1	6640	1	21	5	93
48835	11.00	14.00	3.00	-	-	2	-	-	.4	8	76	60	.1	8840	1	28	3	134
48836	14.00	16.50	2.50	-	-	2	-	-	.4	10	102	26	.1	9830	2	34	6	104
48837	16.50	17.20	.70	-	-	2	-	-	.4	9	166	10	2.0	7200	2	29	8	88
48838	17.20	17.74	.54	-	-	2	-	-	.5	6	53	70	.1	6520	1	21	4	94
48839	17.74	18.72	.98	-	-	1	-	-	.4	15	78	74	.1	5960	2	20	4	92
48840	18.72	20.28	1.56	-	-	3	-	-	.4	8	181	21	1.3	9300	2	25	4	67
48841	20.28	21.00	.72	-	-	2	-	-	.9	9	624	15	12.3	8710	1	23	4	67
48842	21.00	23.63	2.63	-	-	3	-	-	.7	9	133	100	1.2	13110	3	32	6	93
48843	23.63	25.62	1.99	-	-	2	-	-	.8	6	82	66	.1	7800	2	19	4	104
48844	25.62	26.45	.83	-	-	4	-	-	.6	5	80	50	.9	7620	3	21	5	112
48845	26.45	29.00	2.55	-	-	2	-	-	1.2	7	166	165	2.1	14350	3	32	4	146
48846	29.00	32.00	3.00	-	-	2	-	-	.9	7	100	103	.1	10610	1	18	3	142
48847	32.00	33.36	1.36	-	-	1	-	-	.8	8	60	175	.1	13990	2	34	5	186
48848	33.36	34.45	1.09	-	-	1	-	-	.6	7	97	117	1.4	57630	13	29	9	103
48849	34.45	37.00	2.55	-	-	2	-	-	.6	6	63	94	.1	12590	22	22	7	118
48850	37.00	39.00	2.00	-	-	2	-	-	.8	6	80	66	2.5	11240	3	28	4	119
48851	39.00	41.00	2.00	-	-	2	-	-	.6	8	79	133	.1	10170	3	28	4	133
48852	41.00	41.90	.90	-	-	2	-	-	.5	6	43	69	.1	7750	2	27	5	150
48853	41.90	42.50	.60	-	-	1	-	-	.8	5	83	548	.1	6300	2	10	10	124
48854	42.50	44.00	1.50	-	-	2	-	-	.6	7	90	78	.7	11950	2	26	6	132
48855	44.00	46.00	2.00	-	-	1	-	-	.8	7	49	113	.8	10240	22	30	7	150
48856	46.00	48.00	2.00	-	-	2	-	-	.7	6	66	107	.1	9460	11	24	15	131
48857	48.00	49.00	1.00	-	-	1	-	-	.7	6	54	101	.3	9810	3	31	6	154
48858	49.00	50.00	1.00	-	-	1	-	-	1.0	9	97	104	.4	16560	9	46	27	171
48859	50.00	51.00	1.00	-	-	12	-	-	.4	8	69	130	.3	12030	6	33	15	211
48860	51.00	52.20	1.20	-	-	330	-	-	3.2	7	374	176	5.7	38370	15	12	42	148
48861	52.20	52.70	.50	.02	.001	-	1.4	.04	1.8	65	89	261	5.0	17420	25	69	56	353
48862	52.70	53.20	.50	.02	.001	-	.9	.03	1.2	64	131	209	8.2	20660	36	68	61	615
48863	53.20	53.70	.50	.01	.001	-	1.3	.04	1.7	71	140	90	11.5	23630	43	57	70	827
48864	53.70	54.20	.50	.40	.012	-	28.8	.84	29.5	58	126	91	12.7	16160	31	34	112	802
48865	54.20	54.70	.50	.04	.001	-	1.7	.05	1.7	58	178	141	8.8	25130	41	37	67	572
48866	54.70	55.20	.50	.01	.001	-	1.9	.06	1.1	55	127	92	7.2	21070	45	26	74	535
48867	55.20	55.70	.50	.04	.001	-	1.8	.05	1.0	78	233	110	15.9	31100	53	41	115	959
48868	55.70	56.20	.50	.02	.001	-	2.1	.06	1.2	106	166	135	22.6	39730	59	34	161	1368
48869	56.20	56.70	.50	.02	.001	-	2.7	.08	1.4	81	205	110	14.5	30380	40	38	137	1016
48870	56.70	57.20	.50	.38	.011	-	3.2	.09	1.7	107	631	152	25.9	48500	71	38	233	1333
48871	57.20	57.70	.50	.85	.025	-	2.0	.06	1.1	93	1083	108	33.9	57390	63	25	238	849
48872	57.70	58.20	.50	10.80	.315	-	45.4	1.32	40.6	94	1230	168	30.7	63770	34	22	471	704
48873	58.20	58.91	.71	16.85	.491	-	88.5	2.58	86.7	80	822	248	23.4	44180	22	48	625	575
48874	58.91	59.41	.50	4.98	.145	-	196.0	5.72	204.6	72	472	378	12.5	24960	9	76	3855	395
48875	59.41	59.91	.50	5.28	.154	-	207.0	6.04	212.8	85	854	220	24.8	44600	16	122	867	451
48876	59.91	60.41	.50	2.14	.062	-	90.0	2.63	87.7	47	591	223	14.2	15610	8	81	798	270
48877	60.41	60.91	.50	3.20	.093	-	170.0	4.96	173.6	76	686	410	18.5	19850	13	127	2309	488
48878	60.91	61.41	.50	5.24	.153	-	206.5	6.02	216.5	102	744	87	17.5	31420	8	155	1816	417
48879	61.41	61.91	.50	13.06	.381	-	538.6	15.71	333.9	137	620	150	26.9	16630	13	171	24126	1079
48880	61.91	62.41	.50	16.61	.484	-	239.1	6.97	292.5	100	2422	62	62.7	45260	31	45	22152	715

Hole No.: 90-30

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
48881	62.41	62.91	.50	19.16	.559	-	735.4	21.45	384.8	154	407	54	36.6	21400	9	18	43767	2339
48882	62.91	63.49	.58	33.06	.964	-	509.4	44.02	171.9	160	1109	55	66.6	19460	13	20	42658	3269
48883	63.49	63.91	.42	57.55	1.679	-	245.0	65.48	239.9	176	1405	162	65.2	19910	25	167	37064	2925
48884	63.91	64.41	.50	95.69	2.791	-	25.6	146.58	141.1	344	620	43	80.2	16700	21	17	37707	6112
48885	64.41	65.05	.64	30.45	.888	-	709.0	49.85	1007.4	161	1025	296	48.1	15880	24	289	15766	2134
48886	65.05	65.50	.45	12.42	.362	-	609.6	76.11	694.4	525	596	219	32.7	17720	25	1421	11141	1244
48887	65.50	66.00	.50	13.83	.403	-	940.2	56.59	828.4	259	578	424	26.5	19120	16	606	4925	896
48888	66.00	66.50	.50	8.12	.237	-	885.0	25.81	770.8	108	400	349	13.6	17730	9	124	2320	563
48889	66.50	67.00	.50	2.90	.085	-	238.0	6.94	231.6	77	348	595	10.9	14990	15	125	2119	452
48890	67.00	67.50	.50	1.93	.056	-	237.0	6.91	240.6	77	258	323	8.9	12830	11	121	1138	454
48891	67.50	68.00	.50	.98	.029	-	146.5	4.27	148.2	53	132	139	3.8	10590	8	102	518	246
48892	68.00	68.50	.50	1.76	.051	-	145.5	4.24	131.9	55	325	233	7.9	17350	21	104	1875	355
48893	68.50	69.00	.50	1.15	.034	-	104.5	3.05	91.6	67	258	155	8.2	15190	19	87	325	559
48894	69.00	69.50	.50	1.66	.048	-	335.0	9.77	318.3	107	254	320	9.2	18170	15	177	504	576
48895	69.50	70.00	.50	8.66	.253	-	2460.0	71.75	1480.5	352	484	690	13.4	14830	10	504	3792	750
48896	70.00	70.50	.50	7.82	.228	-	1808.0	52.73	1176.0	379	462	317	14.4	14340	6	735	3092	548
48897	70.50	71.00	.50	6.60	.193	-	1420.0	41.42	1032.5	323	403	207	11.9	15980	12	559	2074	535
48898	71.00	71.50	.50	3.04	.089	-	1090.0	31.79	1068.8	274	273	102	10.5	9180	12	460	1446	604
48899	71.50	72.00	.50	17.35	.506	-	3750.0	109.38	1765.4	636	362	157	19.9	11060	21	1233	5276	719
48900	72.00	72.50	.50	3.62	.106	-	543.0	15.84	544.5	149	510	230	15.1	21060	17	270	924	589
48901	72.50	73.00	.50	2.48	.072	-	74.0	2.16	84.8	51	695	552	15.7	20570	20	79	1368	319
48902	73.00	73.50	.50	3.02	.088	-	31.8	.93	33.1	53	602	471	16.4	23810	31	45	895	370
48903	73.50	74.14	.64	3.50	.102	-	26.5	.77	22.6	68	1059	230	27.7	28870	40	48	256	718
48904	74.14	75.00	.86	1.00	.029	-	15.6	.46	15.0	13	679	179	13.7	39860	23	30	92	194
48905	75.00	76.00	1.00	-	-	662	-	-	1.8	8	383	300	9.4	42690	21	35	52	170
48906	76.00	77.00	1.00	-	-	527	-	-	4.5	10	432	239	7.0	27650	13	40	172	141
48907	77.00	78.00	1.00	-	-	13	-	-	.6	7	148	99	1.1	11220	7	38	13	115
48908	78.00	79.00	1.00	-	-	235	-	-	2.3	6	518	402	9.6	33200	15	29	44	97
48909	79.00	80.00	1.00	-	-	40	-	-	1.6	7	267	279	3.5	45430	19	39	21	80
48910	80.00	81.00	1.00	-	-	40	-	-	1.3	6	256	139	4.3	49960	26	29	17	71
48911	81.00	82.00	1.00	-	-	27	-	-	1.3	5	354	188	5.3	24650	14	32	12	90
48912	82.00	83.00	1.00	-	-	2	-	-	1.1	5	784	166	12.4	26360	13	32	23	103
48913	83.00	84.00	1.00	-	-	6	-	-	1.2	5	254	148	2.8	24610	10	30	10	91
48914	84.00	85.00	1.00	-	-	2	-	-	1.1	5	182	125	1.6	16760	6	28	7	95
48915	85.00	86.00	1.00	-	-	6	-	-	1.2	5	173	132	1.8	23650	10	37	13	104
48916	86.00	87.00	1.00	-	-	7	-	-	.9	5	125	137	.1	8670	5	37	12	102
48917	87.00	87.46	.46	-	-	20	-	-	1.4	7	108	129	.4	7450	5	26	12	62
48918	87.46	89.53	2.07	-	-	2	-	-	1.3	6	124	516	.1	8170	5	31	9	70
48919	89.53	90.54	1.01	-	-	4	-	-	1.1	6	88	95	.1	7910	3	31	11	101
48920	90.54	92.54	2.00	-	-	1	-	-	1.0	7	151	193	2.1	10890	7	37	12	124
48921	92.54	94.54	2.00	-	-	3	-	-	.8	6	89	183	.6	10470	5	49	7	139
48922	94.54	96.54	2.00	-	-	2	-	-	1.1	6	60	988	.1	7750	9	42	5	103
48923	96.54	98.54	2.00	-	-	1	-	-	1.0	6	78	128	.1	15670	8	36	7	119
48924	98.54	100.54	2.00	-	-	1	-	-	1.1	5	56	82	.1	10430	5	35	3	117
48925	100.54	102.54	2.00	-	-	5	-	-	1.2	6	58	96	.5	9760	3	26	4	108
48926	102.54	103.68	1.14	-	-	1	-	-	.9	6	62	80	.1	9050	2	36	3	239
48927	103.68	105.71	2.03	-	-	2	-	-	1.4	9	56	17	.1	5580	2	39	6	117
48928	105.71	107.47	1.76	-	-	1	-	-	.9	6	83	40	.1	12090	1	37	1	129
48929	107.47	109.47	2.00	-	-	1	-	-	1.0	6	62	51	.1	11440	2	41	1	102
48930	109.47	111.47	2.00	-	-	2	-	-	.8	6	59	24	.1	9690	4	40	1	110

Hole No.: 90-30

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
48931	111.47	114.50	3.03	-	-	1	-	-	.9	9	41	40	.1	9920	4	36	3	107
48932	114.50	116.58	2.08	-	-	3	-	-	1.1	6	84	16	.1	8030	3	38	1	102
48933	116.58	118.30	1.72	-	-	2	-	-	1.0	6	73	40	.1	9050	2	34	1	109
48934	118.30	121.31	3.01	-	-	1	-	-	1.3	7	72	31	.1	8540	4	49	1	89
48935	121.31	124.31	3.00	-	-	1	-	-	1.6	7	35	57	.1	9690	2	50	5	126
48936	124.31	127.31	3.00	-	-	2	-	-	1.5	7	72	71	.1	8970	3	37	3	101
48937	127.31	130.31	3.00	-	-	2	-	-	1.3	6	50	46	.6	8840	4	31	3	77
48938	130.31	133.31	3.00	-	-	1	-	-	1.4	7	67	72	.1	12750	5	45	3	99
48939	133.31	136.31	3.00	-	-	1	-	-	1.1	7	37	59	.1	11730	7	45	4	94
48940	136.31	137.46	1.15	-	-	1	-	-	1.0	7	93	39	.1	10390	4	32	3	86

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: M. REBAGLIATI/R. HASLINGER

MIN-EN LABS — ICP REPORT

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

90-30

FILE NO: OS-0673-RJ1+2
DATE: 90/10/19
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48831	1.3	4590	67	22	74	2.1	2	1120	1.6	3	77	9850	2550	17	870	118	3	410	2	30	42	8	2	11	6	3.6	125	4	4	4	96	2
48832	.5	2470	73	10	30	.8	2	280	.1	2	7	8080	880	8	400	98	2	900	1	20	23	4	2	8	5	1.5	90	3	1	6	105	1
48833	.4	3590	65	6	50	1.3	2	680	.1	2	9	8150	1900	4	420	134	2	730	1	10	26	3	2	8	6	1.3	120	3	2	6	124	1
48834	.8	3010	41	3	66	.9	3	5580	.1	1	7	6640	1710	2	750	166	1	660	1	40	21	5	5	8	5	1.5	93	3	2	6	123	2
48835	.4	4320	76	3	60	1.4	2	830	.1	2	8	8840	2440	2	550	108	1	620	3	40	28	3	2	9	6	1.0	134	4	2	6	121	2
48836	.4	2350	102	1	26	.6	2	1520	.1	2	10	9830	790	1	390	127	2	1060	1	10	34	6	3	7	5	1.4	104	3	1	8	157	2
48837	.4	1390	166	1	10	.2	2	2900	2.0	2	9	7200	200	1	60	121	2	1040	1	40	29	8	3	5	4	.9	88	1	1	5	127	2
48838	.5	4660	53	1	70	1.1	2	2940	.1	1	6	6520	3340	1	690	101	1	330	1	10	21	4	4	9	6	1.0	94	4	1	4	93	2
48839	.4	2860	78	1	74	1.1	2	700	.1	1	15	5960	1800	1	200	89	2	520	4	20	20	4	2	6	6	.7	92	2	1	5	112	1
48840	.4	2080	181	1	21	.5	2	180	1.3	2	8	9300	520	1	90	77	2	1260	1	10	25	4	2	6	5	.9	67	2	1	6	127	3
48841	.9	1570	624	1	15	.2	2	15940	12.3	2	9	8710	260	1	320	331	1	1040	2	10	23	4	14	5	3	2.2	67	2	2	6	109	2
48842	.7	4160	133	1	100	1.6	1	4400	1.2	2	9	13110	2640	2	910	142	3	460	1	50	32	6	8	8	6	1.5	93	3	4	6	114	3
48843	.8	4370	82	1	66	1.5	2	7110	.1	2	6	7800	2650	1	1170	190	2	450	3	30	19	4	10	8	6	1.5	104	3	1	6	128	2
48844	.6	4140	80	1	50	1.6	2	6820	.9	2	5	7620	2070	2	1360	313	3	480	1	40	21	5	8	7	4	1.9	112	3	1	6	140	4
48845	1.2	10090	166	1	165	3.8	2	15720	2.1	3	7	14350	4540	6	4020	608	3	250	1	10	32	4	11	9	4	2.6	146	7	3	5	79	2
48846	.9	6660	100	1	103	2.4	2	12870	.1	2	7	10610	3250	5	2540	349	1	370	5	20	18	3	17	7	4	2.3	142	5	2	5	98	2
48847	.8	8540	60	1	175	3.8	1	5400	.1	2	8	13990	4620	4	3120	256	2	260	1	20	34	5	12	9	5	2.1	186	6	2	4	79	1
48848	.6	4780	97	3	117	1.9	1	6700	1.4	6	7	57630	3430	1	520	133	13	120	1	40	29	9	8	5	1	1.4	103	2	1	4	81	1
48849	.6	4600	63	1	94	1.5	1	7760	.1	2	6	12590	3230	2	900	176	22	150	1	30	22	7	16	5	3	1.9	118	3	1	5	100	2
48850	.8	6810	80	1	66	1.8	1	4920	2.5	2	6	11240	2460	6	4880	190	3	290	1	20	28	4	6	7	5	1.8	119	6	3	5	86	2
48851	.6	8380	79	1	133	2.2	1	2640	.1	2	8	10170	3260	7	4660	146	3	260	1	30	28	4	5	7	4	1.4	133	6	2	5	86	2
48852	.5	4720	43	1	69	2.1	2	1110	.1	1	6	7750	2740	2	2990	117	2	300	2	30	27	5	4	7	6	1.2	150	4	2	5	85	2
48853	.8	3620	83	1	548	1.7	2	4960	.1	2	5	6300	2140	1	2660	141	2	310	1	30	10	10	13	6	5	1.9	124	4	4	6	113	1
48854	.6	7810	90	1	78	1.6	1	3910	.7	2	7	11950	2670	7	6300	199	2	370	1	20	26	6	9	7	5	1.9	132	6	4	5	92	2
48855	.8	8080	49	1	113	2.4	1	2490	.8	2	7	10240	3270	7	5470	148	22	220	1	30	30	7	7	9	6	1.5	150	6	5	4	73	1
48856	.7	7080	66	1	107	1.8	2	3680	.1	2	6	9460	3500	5	4600	161	11	180	1	50	24	15	13	7	6	1.6	131	6	3	4	76	2
48857	.7	5650	54	1	101	2.4	1	5270	.3	2	6	9810	3170	3	4880	197	3	110	1	50	31	6	16	7	6	1.8	154	5	4	4	57	1
48858	1.0	5430	97	1	104	1.9	3	5690	.4	3	9	16560	3440	2	3830	208	9	100	1	50	46	27	17	6	4	2.0	171	4	2	4	75	1
48859	.4	6980	69	1	130	3.3	1	1790	.3	2	8	12030	3830	2	2440	124	6	120	1	60	33	15	6	7	5	1.5	211	4	2	3	62	12
48860	3.2	4180	374	1	176	.5	1	4290	5.7	4	7	38370	2420	1	770	22	15	30	1	10	12	42	6	5	3	.8	148	3	1	3	59	330
48905	1.8	5060	383	12	300	.9	1	520	9.4	5	8	42690	2900	7	830	3	21	40	8	10	35	52	3	1	1	1.0	170	1	1	1	29	662
48906	4.5	3480	432	6	239	.3	2	3050	7.0	3	10	27650	2240	3	1320	27	13	660	12	10	40	172	8	1	1	1.5	141	1	1	1	58	527
48907	.6	4480	148	3	99	1.7	2	4270	1.1	2	7	11220	2840	2	2210	87	7	180	39	50	38	13	13	1	1	1.3	115	1	1	1	79	13
48908	2.3	6390	518	5	402	.4	2	11210	9.6	4	6	33200	3760	2	1130	66	15	50	1	10	29	44	12	1	1	1.7	97	1	1	1	66	235
48909	1.6	5250	267	4	279	.1	1	16960	3.5	5	7	45430	3050	1	980	138	19	40	6	10	39	21	13	1	1	1.8	80	1	1	1	57	40
48910	1.3	3540	256	4	139	.5	1	13220	4.3	5	6	49960	2150	1	1430	86	26	20	1	90	29	17	15	1	1	1.7	71	1	1	1	45	40
48911	1.3	3070	354	2	188	.7	2	19170	5.3	3	5	24650	1940	1	1010	141	14	30	17	10	32	12	23	1	1	2.0	90	1	1	1	56	27
48912	1.1	3610	784	2	166	.9	2	17840	12.4	3	5	26360	2200	1	1090	193	13	70	10	30	32	23	14	1	1	2.0	103	1	1	1	46	2
48913	1.2	3720	254	2	148	.7	2	17400	2.8	3	5	24610	2220	1	1630	137	10	140	18	10	30	10	18	1	1	1.9	91	1	1	1	69	6
48914	1.1	3570	182	1	125	.7	1	13860	1.6	2	5	16760	2150	1	1120	143	6	120	25	10	28	7	13	1	1	1.6	95	1	1	1	65	2
48915	1.2	4050	173	2	132	.8	2	8240	1.8	3	5	23650	2410	1	1240	101	10	150	3	10	37	13	8	1	1	1.4	104	1	1	1	57	6
48916	.9	4370	125	1	137	.8	2	8060	.1	1	5	8670	2570	1	1490	64	5	290	7	40	37	12	7	1	1	1.4	102	1	1	1	82	7
48917	1.4	5460	108	1	129	1.4	2	5160	.4	1	7	7450	3160	1	1620	66	5	410	13	20	26	12	6	1	1	1.2	62	1	1	1	105	20
48918	1.3	4720	124	2	516	.9	2	9250	.1	2	6	8170	2600	1	4560	146	5	430	4	10	31	9	12	1	1	2.1	70	1	1	1	99	2
48919	1.1	4460	88	1	95	.9	2	8680	.1	1	6	7910	2330	1	5390	123	3	620	4	40	31	11	13	1	1	2.2	101	1	1	2	131	4
48920	1.0	11150	151	1	193	2.3	1	2010	2.1	2	7	10890	4530	9	9700	79	7	140	19	10	37	12	6	1	1	1.7	124	1	1	1	49	1
48921	.8	14420	89	1	183	2.4	3	2610	.6	2	6	10470	5230	14	12650	102	5	170	3	40	49	7	6	1	1	2.4	139	3	1	1	67	3
48922	1.1	7360	60	1	988	2.1	1	11100	.1	2	6	7750	3280	5	9310	212	9	190	8	40	42	5	19	1	1	2.7	103	1	1	1	49	2
48923	1.0	4890	78	1	128	1.7	2	6670	.1	2	6	15670	2590	2	7140	165	8	90	4	30	36	7	11	1	1	2.0	119	1	1	1	44	1
48924	1.1	4270	56	1	82	1.8	1	11790	.1	2	5	10430	2350	2	10650	174	5	160	10	20	35	3	19	1	1	2.5	117	1	2	1	52	1
48925	1.2	3540	58	1	96	2.0	1	8270	.5	2	6	9760	2090	1	6860	107	3	140	6	70	26	4	16	1	1	1.9	108	1	1	1	47	5
48926	.9	4500	62	1	80	1.8	2	8610	.1	2	6	9050	2410	2	6490	142	2	260	13	30	36	3	12	1	1	2.0	239	1	1	1	80	1
48927	1.4	1710	56	1	17	.5	2	9000	.1	1	9	5580	420	1	4630	96	2	860	17	10	39	6	13	1	1	1.8	117	1	1	1	104	2
48928	.9	4070	83	1	40	1.2	1	7800	.1	2	6	12090	1490	3	6580	101	1	300	10	10	37	1	18	1	1	2.1	129	1	1	1	79	1
48929	1.0	7540	62	1	51	2.0	2	6840	.1	2	6	11440	2310	7	8730	101	2	300	1	30	41	1	16	1	1	2.2	102	1	1	1	71	1
48930	.8	3450	59	1	24	1.1	1	6650	.1	2	6	9690	960	4	6210	94	4	560	1	40	40	1	12	1	1	1.9	110	1	1	1	92	2
48931	.9	5560	41	1	40	1.0	1	4130	.1	2	9	9920	1610	6	6710	83	4	580	1	20	36	3	8	1	1	1.8	107	2	1	2	106	1
48932	1.1	4230	84	1	16	.5	2	6650	.1	2	6	8030	330	7	7160	91	3	870	1	30	38	1	8	1	1	2.3	102	1	1	1	114	3
48933	1.0	3350	73	1	40	1.4	1	9560	.1	2	6	9050	1670	2	7550	101	2	320	1	30	34	1	13	1	1	2.5	109	1	1	1	73	2
48934	1.3	2810	72	1	31	1.2	1	13510	.1	2	7	8540	1570	1	7870	109	4	340	1	40	49	1	21	1	1	2.5	89	1	1	1	78	1

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: M. REBAGLIATI/R. HASLINGER

MIN-EN LABS — ICP REPORT

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

90-30

FILE NO: 0S-0673-RJ3
DATE: 90/10/19
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48935	1.6	5480	35	21	57	1.8	1	9000	.1	2	7	9690	2790	17	6090	72	2	490	3	60	50	5	11	1	1	3.3	126	1	1	2	111	1
48936	1.5	8330	72	14	71	2.5	2	13790	.1	2	7	8970	3490	16	6540	82	3	470	1	60	37	3	11	1	1	3.0	101	1	1	2	128	2
48937	1.3	4620	50	8	46	1.7	2	17020	.6	2	6	8840	2090	7	4260	123	4	470	1	80	31	3	9	1	1	2.8	77	1	1	2	115	2
48938	1.4	11060	67	5	72	2.9	1	16730	.1	2	7	12750	3200	13	9130	153	5	330	1	70	45	3	10	1	1	2.9	99	2	2	1	82	1
48939	1.1	8990	37	2	59	2.3	1	19000	.1	2	7	11730	2460	9	6750	165	7	410	2	120	45	4	7	1	1	2.9	94	2	1	1	99	1
48940	1.0	6010	93	1	39	1.1	1	13260	.1	2	7	10390	1570	6	5760	90	4	580	1	80	32	3	6	1	1	2.9	86	1	1	2	133	1

COMP: REBAGLIATI GEOLOGICAL
PROJ: XYZ
ATTN: MARK REBAGLIATI

MIN-EN LABS — ICP REPORT

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

90-30

FILE NO: OV-1558-RJ1+2
DATE: 90/10/09
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM
48861	1.8	3490	89	26	261	1.2	2	12720	5.0	6	65	17420	2170	19	5360	214	25	410	42	250	69	56	27	1	1	19.3	353	2	1	3	137
48862	1.2	4580	131	24	209	1.7	2	2650	8.2	7	64	20660	2920	16	1060	99	36	500	62	330	68	61	6	1	1	22.9	615	1	1	2	93
48863	1.7	4100	140	17	90	1.3	2	1680	11.5	8	71	23630	2480	11	470	95	43	440	86	540	57	70	4	1	1	37.3	827	1	1	2	109
48864	29.5	3800	126	13	91	1.1	2	1300	12.7	6	58	16160	2210	8	420	72	31	250	78	410	34	112	4	1	1	36.6	802	1	1	2	99
48865	1.7	5180	178	8	141	1.2	1	7380	8.8	8	58	25130	3080	2	2240	150	41	130	74	470	37	67	18	1	1	33.7	572	1	1	2	90
48866	1.1	4760	127	5	92	1.0	1	5690	7.2	7	55	21070	2800	1	1730	117	45	130	89	360	26	74	15	1	1	33.1	535	1	1	2	94
48867	1.0	6640	233	4	110	1.5	1	2640	15.9	10	78	31100	4220	1	930	125	53	2130	104	640	41	115	7	1	1	45.8	959	1	1	1	66
48868	1.2	9960	166	6	135	2.2	1	7420	22.6	13	106	39730	5570	1	1320	172	59	170	112	690	34	161	15	1	1	73.0	1368	1	1	1	50
48869	1.4	8110	205	5	110	1.8	1	15920	14.5	9	81	30380	4360	1	1400	286	40	110	85	630	38	137	35	1	1	49.6	1016	1	1	1	63
48870	1.7	10000	631	5	152	1.9	1	4440	25.9	15	107	48500	5150	1	1410	212	71	80	149	930	38	233	12	1	1	63.3	1333	1	1	1	21
48871	1.1	11620	1083	7	108	1.9	1	3290	33.9	15	93	57390	6110	1	1220	312	63	80	98	1150	25	238	7	1	1	66.8	849	1	1	1	27
48872	40.6	10360	1230	5	168	1.5	1	1710	30.7	17	94	63770	5560	1	1050	289	34	60	42	480	22	471	5	1	1	55.2	704	1	1	1	19
48873	86.7	8910	822	4	248	1.3	1	2560	23.4	13	80	44180	4590	1	1020	198	22	60	26	220	48	625	7	1	1	46.0	575	1	1	1	56
48874	204.6	6390	472	2	378	1.4	1	1220	12.5	7	72	24960	3450	1	1080	158	9	650	16	40	76	3855	3	1	1	24.9	395	1	1	2	95
48875	212.8	7240	854	3	220	1.2	1	600	24.8	12	85	44600	3810	1	830	140	16	60	10	60	122	867	3	1	1	32.1	451	1	1	1	35
48876	87.7	3290	591	1	223	1.0	1	370	14.2	5	47	15610	1760	1	470	83	8	30	19	10	81	798	1	1	1	22.6	270	1	1	4	142
48877	173.6	4770	686	1	410	1.4	1	1480	18.5	6	76	19850	2630	1	1100	125	13	620	19	30	127	2309	6	1	1	23.4	488	1	1	1	63
48878	216.5	7600	744	3	87	1.7	1	2080	17.5	11	102	31420	3940	1	1180	171	8	470	16	500	155	1816	11	1	1	43.0	417	1	1	1	59
48879	333.9	4400	620	1	150	1.2	1	1630	26.9	4	137	16630	2440	1	1170	141	13	450	14	30	171	24126	4	1	1	21.2	1079	1	1	3	143
48880	292.5	17320	2422	9	62	2.9	1	9140	62.7	13	100	45260	8030	1	2570	382	31	120	23	3260	45	22152	16	1	1	69.5	715	2	2	2	65
48881	384.8	4570	407	2	54	1.1	1	2650	36.6	6	154	21400	2600	1	1350	169	9	460	18	120	18	43767	5	1	1	20.0	2339	1	1	2	115
48882	171.9	5270	1109	1	55	1.1	1	1650	66.6	6	160	19460	2790	1	1220	135	13	60	20	80	20	42658	4	1	1	22.6	3269	1	1	3	143
48883	239.9	6010	1405	1	162	.8	2	1010	65.2	6	176	19910	3370	1	1060	103	25	540	19	30	167	37064	4	1	1	26.0	2925	1	1	2	97
48884	141.1	5860	620	1	43	.6	1	780	80.2	5	344	16700	3010	1	950	107	21	60	25	50	17	37707	3	1	1	24.3	6112	3	1	1	77
48885	1007.4	4300	1025	54	296	1.2	2	20060	48.1	6	161	15880	2090	43	1240	268	24	240	20	20	289	15766	46	1	1	19.2	2134	2	1	1	113
48886	694.4	4630	596	30	219	.9	2	16490	32.7	6	525	17720	2400	23	1110	248	25	360	21	60	1421	11141	30	1	1	25.9	1244	1	1	2	238
48887	828.4	4300	578	25	424	1.0	2	5090	26.5	6	259	19120	2220	19	850	124	16	470	20	50	606	4925	11	1	1	24.5	896	1	1	2	212
48888	770.8	3260	400	17	349	1.3	2	2130	13.6	5	108	17730	1760	13	710	92	9	140	19	30	124	2320	5	1	1	19.5	563	1	1	1	111
48889	231.6	5640	348	13	595	1.5	1	1890	10.9	4	77	14990	2910	9	1140	76	15	330	23	40	125	2119	4	1	1	28.3	452	1	1	1	144
48890	240.6	3590	258	10	323	.8	1	2220	8.9	4	77	12830	1910	7	790	80	11	410	19	40	121	1138	3	1	1	22.9	454	1	1	2	202
48891	148.2	2190	132	10	139	1.1	1	7350	3.8	3	53	10590	1170	7	530	113	8	40	8	30	102	518	4	1	1	14.6	246	1	1	1	135
48892	131.9	4680	325	8	233	1.3	1	5770	7.9	6	55	17350	2570	4	1010	129	21	190	44	60	104	1875	6	1	1	27.9	355	1	1	2	157
48893	91.6	3600	258	6	155	1.0	1	1930	8.2	5	67	15190	2100	3	810	78	19	520	38	80	87	325	4	1	1	22.6	559	1	1	1	65
48894	318.3	4030	254	6	320	1.2	1	1230	9.2	5	107	18170	2210	3	850	71	15	40	29	110	177	504	4	1	1	27.1	576	1	1	1	64
48895	1480.5	2340	484	4	690	.7	1	2510	13.4	4	352	14830	1310	2	580	85	10	820	15	10	504	3792	7	1	1	13.9	750	1	1	1	128
48896	1176.0	3950	462	5	317	.8	1	2490	14.4	4	379	14340	2140	2	760	67	6	580	8	640	735	3092	5	1	1	17.3	548	1	1	1	144
48897	1032.5	2970	403	4	207	1.0	2	1590	11.9	4	323	15980	1580	1	660	69	12	50	8	320	559	2074	4	1	1	14.2	535	1	1	2	175
48898	1068.8	1420	273	2	102	.6	1	1160	10.5	3	274	9180	850	1	650	70	12	460	26	30	460	1446	3	1	1	10.0	604	1	1	2	224
48899	1765.4	2540	362	3	157	.4	2	3040	19.9	4	636	11060	1500	1	1450	94	21	480	28	360	1233	5276	7	1	1	17.1	719	1	1	2	226
48900	544.5	4500	510	5	230	.8	1	3450	15.1	6	149	21060	2490	1	2000	133	17	490	35	110	270	924	11	1	1	28.9	589	1	1	1	154
48901	84.8	5120	695	5	552	.9	1	1220	15.7	5	51	20570	2590	2	1060	75	20	390	33	50	79	1368	5	1	1	12.4	319	1	1	1	127
48902	33.1	5030	602	5	471	.4	1	470	16.4	6	53	23810	2620	1	730	78	31	490	49	40	45	895	2	1	1	24.0	370	1	1	1	88
48903	22.6	11100	1059	8	230	1.4	1	1000	27.7	8	68	28870	5520	4	1630	94	40	80	71	200	48	256	3	1	1	49.3	718	1	1	1	41
48904	15.0	10850	679	8	179	1.1	1	680	13.7	5	13	39860	5320	4	1690	16	23	60	2	40	30	92	3	1	1	3.9	194	2	1	1	35

MIN
• EN
LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

90-30

Assay Certificate

OV-1558-RA1

Company: REBAGLIATI GEOLOGICAL
Project: XYZ
Attn: MARK REBAGLIATI

Date: OCT-09-90
Copy 1. REBAGLIATI GEOLOGICAL, VANCOUVER, B.C.

He hereby certify the following Assay of 18 ROCK samples submitted OCT-05-90 by M. REBAGLIATI.

Sample Number	AU g/tonne	AU oz/ton	AG g/tonne	AG oz/ton
48861	.02	.001	1.4	.04
48862	.02	.001	.9	.03
48863	.01	.001	1.3	.04
48864	.40	.012	28.8	.84
48865	.04	.001	1.7	.05
48866	.01	.001	1.9	.06
48867	.04	.001	1.8	.05
48868	.02	.001	2.1	.06
48869	.02	.001	2.7	.08
48870	.38	.011	3.2	.09
48871	.85	.025	2.0	.06
48872	10.80	.315	45.4	1.32
48873	16.85	.491	88.5	2.58
48874	4.98	.145	196.0	5.72
48875	5.28	.154	207.0	6.04
48876	2.14	.062	90.0	2.63
48877	3.20	.093	170.0	4.96
48878	5.24	.153	206.5	6.02

Certified by _____

MIN-EN LABORATORIES

MIN
• EN
LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
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90-30

Assay Certificate

OV-1558-RA2

Company: REBAGLIATI GEOLOGICAL
Project: XYZ
Attn: MARK REBAGLIATI

Date: OCT-09-90
Copy 1. REBAGLIATI GEOLOGICAL, VANCOUVER, B.C.

He hereby certify the following Assay of 17 ROCK samples submitted OCT-05-90 by M. REBAGLIATI.

Sample Number	AU g/tonne	AU oz/ton	AG g/tonne	AG oz/ton
48888	8.12	.237	885.0	25.81
48889	2.90	.085	238.0	6.94
48890	1.93	.056	237.0	6.91
48891	.98	.029	146.5	4.27
48892	1.76	.051	145.5	4.24
48893	1.15	.034	104.5	3.05
48894	1.66	.048	335.0	9.77
48895	8.66	.253	2460.0	71.75
48896	7.82	.228	1808.0	52.73
48897	6.60	.193	1420.0	41.42
48898	3.04	.089	1090.0	31.79
48899	17.35	.506	3750.0	109.38
48900	3.62	.106	543.0	15.84
48901	2.48	.072	74.0	2.16
48902	3.02	.088	31.8	.93
48903	3.50	.102	26.5	.77
48904	1.00	.029	15.6	.46

Certified by

MIN-EN LABORATORIES

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-31

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 104B/9	CLAIM #	: SIB 16		
LOCAL GRID	: 7945.43 N / 10265.67 E	GLOBAL GRID	: 12179.79 N / 17837.57 E	ELEVATION	: 1011.45 metres
LENGTH	: 208.79 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 297.0 degrees
OVERBURDEN	: 5.19 m	CASING	: 5.19 metres.	ASSAYING BY	: Min-En Labs
LOGGED BY	: Guy LePage	DRILLED BY	: J.T. Thomas	CORE LOCATION	: 101+00 N, 98+00 E
DATE LOGGED	: 1990/10/04 Y/M/D	DATE DRILLED	: 1990/10/01 Y/M/D	SAMPLE NO. SERIES	: 48941-49000 48651-48699

ACID TESTS

Depth	Dip	Azimuth
208.79	-45.0	297.0

SUMMARY LOG 90-31

From(m)	To(m)	Field Name (Legend)
0.00	5.19	CASING
5.19	145.00	POTASSIC FLOODED LAPILLI FRAGMENTAL (UNIT 11)
145.00	208.74	ARGILLACEOUS SILTSTONE grading to SILTY-MUDSTONE (UNIT 31)
208.74		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-31

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
129.79	130.79	1.00	0.017			
135.79	136.79	1.00	0.013			
142.79	143.79	1.00	0.019			

From(m)	To(m)	Description
0.00	5.19	CASING
5.19	145.00	POTASSIC FLOODED LAPILLI FRAGMENTAL (UNIT 11) Composition Fragments: 45 to 50%. Lapilli size, sub-rounded to sub-angular, 3mm to 25cm width(average 45 to 40mm), some have long axis defining a bedding plane at 60 to 70 degrees to core axis. Fragments consist of sericite altered euhedral to subhedral porphyry plagioclase phenocrysts(30 to35%) set in a k-feldspar rich(60 to 70%) aphanitic groundmass. Groundmass: Primary material was probably plagioclase rich. Structure Jointing: 60 to 70 degrees to core axis. Rarely 45 to 50 degrees to core axis. Alteration Potassic: Strong. Intense flooding , texture destructive, locally reaches(65 to 70%), secondary k-feldspar variable from light medium grey to pink grey. Silicification: Strong. Light to pinkish grey siliceous assemblege forms a stockwork assemblege seperating fragments, up to 60% over several metres. Stockwork postdates potassic flooding and comprises 10% by volume of the unit. Mineralization Pyrite: 2 to 7%. Euhedral blebs up to 50 mm wide, clusters and disseminations in net veins (+-chlorite+-calcite) and in veins oriented at 70 to 80 degrees to core axis ranging from 0.5 to 25mm in width(average 1 to 2mm) . Localized brecciated produces stockwork of chlorite-pyrite-calcite. Pyrite clusters and disseminations also associated with volcanic fragments. Galena: Trace. From 125.33 to 145.00 metres. As selvedges within breccias/stockwork. Sphalerite: Trace. From 125.33 to 145.00 metres. As selvedges within breccia/stockwork. Veins and Sub-Intervals Calcite-quartz-iron carbonate Veining. Core axis angle 5 to 20 degrees. Less commonly 45 to 50 degrees to core axis. Post date unit. <26.64>-<27.72>: FAULT ZONE. Contact unclear, badly broken core with limonitic stain.

From(m) To(m) ----------Description----------

<60.81>-<62.04>: FAULT ZONE. Badly broken core, 10 to 15% fault gouge, upper contact and lower contact unclear however adjacent iron carbonate+-calcite veins are oriented at 70 degrees to core axis.

<125.33>-<145.00>: Intensely brecciated with intense brecciation of volcanic fragments(70% of the interval) interbedded with minor plagioclase porphyry horizons near lower contact. Calcite+silica+-chlorite+-argillite forms interstitial net veins assemblege between brecciated fragments. Pyrite(5 to 7%) as coarse blebs, disseminations and clusters as selvedges within net veins at 60 to 70 degrees to core axis, frequency 1 to 2 per metre.

145.00 208.74 ARGILLACEOUS SILTSTONE grading to SILTY-MUDSTONE (UNIT 31)

Composition

Siltstone: Well laminations, argillaceous, bedding oriented at 60 to 65 degrees to core axis defined by alternating felsic and quartose layers and lesser pyritic laminae.

Massive: From 173.10 metres there is an increase in argillaceous mudstone interbedded with minor siliceous and silty layers with a change in bedding orientation to 30 degrees to core axis. Beds rang from 1 to 2mm up to several cm's with and average width of 3 to 5mm.

Structure

Jointing: 60 to 70 degrees to core axis. From 145.00 to 173.12 metres. Joints parallel bedding orientations. Locally gouged and brecciated at 145.09 to 145.75 metres probably due to competentcy contrast between units.

Jointing: 30 to 40 degrees to core axis. From 183.12 to 208.79 metres. Joints parallel bedding planes. Locally up to 50 to 60 degrees to core axis.

Mineralization

Sphalerite: 1 to 3%. From 137.50 to 140.00 metres. As selvedges within bluish grey siliceous overprinting stockwork.

Pyrrhotite: 1 to 2%. From 137.50 to 140.00 metres. As selvedges within bluish grey siliceous overprint stockwork.

Veins and Sub-Intervals

Calcite-argillaceous Veining. Breccia pipes occasionally cross cut units. Extensive over 10 to 15 cm's, average 4 to 5 cm in width, frequency is 1 per metre, barren.

From(m) To(m) ----------Description----------

<145.00>-<208.79>: Quartz-calcite-iron carbonate Veining. Core axis angle 60 to 70 degrees. Unit cross cut by veins from 0.5 to 20mm in width(average 1.5 to 2.0mm). From 145.00 to 172.50 metres the frequency is 2 to 5 per metre. From 172.50 to 192.13 metres the frequency is >50 per metre. From 192.13 to 208.79 metres the frequency is 5 to 10 per metre.

<145.00>-<173.12>: Pyrite(3 to 4%) occurs as fine disseminations and as oriented and flattened blebs and veins oriented parallel to the bedding throughout, from 0.5 to 8mm in width(average 1.5mm), frequency 5 to 10 per metre.

<173.12>-<208.79>: Pyrite(3 to 5%) mostly as syngenetic laminae oriented parallel to the bedding at 30 degrees to core axis, from 0.5mm to several cm's in width(average 2 to 3mm).

<173.12>-<173.80>: FAULT ZONE. Graphitic gouge and brecciated throughout. Upper contact and Lower contact unclear, however planar deformation appears to have taken place at 50 to 60 degrees to core axis(orientations of adjacent calcite+-quartz veins).

<175.80>-<176.17>: Milky quartz veins interlayered with lightly folded argillaceous veins(average 2 to 3 mm in width) containing selvedges and disseminations and blebs of pyrite(2 to 4%). Upper contact at 45 to 50 degrees to core axis, lower contact unclear.

<189.84>-<192.13>: FAULT ZONE. Graphitic gouge with quartz+calcite annealing. Upper contact and Lower contact unclear, however the orientation of the veins suggests movement at 20 to 30 degrees to core axis.

208.74 END OF HOLE.

Hole No.: 90-31

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	5.19	5.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48994	5.19	6.18	.99	-	-	105	-	-	.5	7	15	126	.1	30470	1	22	1	46
48941	6.18	10.70	4.52	-	-	8	-	-	1.0	7	92	101	.1	32450	1	30	1	43
48942	10.70	13.68	2.98	-	-	73	-	-	.9	16	23	77	.1	36930	1	38	1	56
48943	13.68	16.22	2.54	-	-	72	-	-	.8	7	55	118	.1	37860	1	35	1	45
48944	16.22	19.00	2.78	-	-	70	-	-	1.1	6	89	112	.1	35950	1	32	1	55
48945	19.00	21.00	2.00	-	-	100	-	-	1.9	6	157	108	1.3	36420	1	33	4	55
48946	21.00	24.00	3.00	-	-	49	-	-	1.2	4	48	115	.1	35260	1	32	1	50
48947	24.00	26.64	2.64	-	-	56	-	-	1.1	4	1	204	.1	35100	1	19	1	60
48948	26.64	29.00	2.36	-	-	19	-	-	.8	5	41	108	.1	33100	2	37	1	45
48949	29.00	31.00	2.00	-	-	82	-	-	2.5	71	141	83	1.3	36020	1	36	1	44
48950	31.00	33.29	2.29	-	-	61	-	-	1.4	14	98	80	1.4	34520	1	29	1	77
48951	33.29	35.66	2.37	-	-	74	-	-	.9	6	85	144	.1	37450	2	28	1	47
48952	35.66	36.64	.98	-	-	198	-	-	.5	7	54	83	.9	34270	1	32	1	46
48953	36.64	39.00	2.36	-	-	176	-	-	.9	8	63	71	.1	37960	1	29	1	34
48954	39.00	41.00	2.00	-	-	306	-	-	.6	19	50	85	.1	34750	1	26	1	58
48955	41.00	42.06	1.06	-	-	60	-	-	.5	7	89	116	1.5	26610	1	16	1	34
48956	42.06	43.74	1.68	-	-	148	-	-	1.1	7	79	80	.9	49560	2	28	1	54
48957	43.74	46.00	2.26	-	-	55	-	-	.6	5	22	83	.3	41760	4	36	1	48
48958	46.00	47.03	1.03	-	-	26	-	-	.5	8	23	126	.4	39520	1	33	1	35
48959	47.03	47.96	.93	-	-	37	-	-	.3	10	28	293	.8	29250	1	27	1	42
48960	47.96	51.00	3.04	-	-	38	-	-	.7	12	16	99	.1	36600	1	32	1	96
48961	51.00	54.00	3.00	-	-	34	-	-	.5	4	3	92	.1	37910	1	36	1	56
48962	54.00	57.00	3.00	-	-	40	-	-	.5	6	1	76	.1	34790	1	25	1	32
48963	57.00	58.65	1.65	-	-	63	-	-	.3	8	1	92	.1	38820	1	27	1	50
48964	58.65	60.81	2.16	-	-	34	-	-	.7	8	1	107	.1	35930	1	23	1	52
48965	60.81	62.54	1.73	-	-	42	-	-	.7	9	33	129	.1	34380	1	24	1	40
48966	62.54	65.02	2.48	-	-	92	-	-	.9	17	128	77	2.5	22460	2	25	1	36
48967	65.02	68.00	2.98	-	-	302	-	-	.7	9	139	61	3.0	34390	4	23	1	34
48968	68.00	71.00	3.00	-	-	124	-	-	1.1	15	228	70	2.8	33040	3	17	2	39
48969	71.00	74.00	3.00	-	-	123	-	-	1.5	10	193	70	1.9	38040	16	175	3	82
48970	74.00	77.00	3.00	-	-	105	-	-	.7	6	10	67	.1	35020	2	32	1	39
48971	77.00	80.00	3.00	-	-	56	-	-	.7	11	87	73	.3	35850	1	56	1	61
48972	80.00	83.00	3.00	-	-	58	-	-	.8	14	246	86	4.2	35160	1	28	3	41
48973	83.00	86.00	3.00	-	-	164	-	-	.5	5	90	70	.1	37160	1	23	1	31
48974	86.00	89.00	3.00	-	-	59	-	-	.6	8	35	67	.1	33060	2	25	1	34
48975	89.00	92.00	3.00	-	-	63	-	-	.9	8	351	75	5.5	36410	1	28	10	39
48976	92.00	95.00	3.00	-	-	18	-	-	.7	6	137	88	2.0	33120	1	26	3	49
48977	95.00	98.00	3.00	-	-	3	-	-	.8	14	14	76	.1	36840	2	31	1	43
48978	98.00	101.00	3.00	-	-	22	-	-	.8	5	82	93	.1	32680	2	28	1	35
48979	101.00	104.00	3.00	-	-	29	-	-	1.1	7	141	74	1.5	28510	1	41	1	62
48980	104.00	107.00	3.00	-	-	78	-	-	1.1	9	116	74	2.4	34020	1	23	1	37
48981	107.00	110.00	3.00	-	-	96	-	-	1.1	7	218	63	3.4	29580	1	16	1	29
48982	110.00	111.23	1.23	-	-	300	-	-	1.1	10	177	50	3.6	27840	1	21	1	87
48983	111.23	112.90	1.67	-	-	142	-	-	1.1	7	165	72	.5	38290	1	24	1	19
48984	112.90	113.40	.50	-	-	150	-	-	1.8	15	137	87	2.8	26020	1	26	1	103
48985	113.40	116.00	2.60	-	-	162	-	-	1.5	9	248	76	5.0	25830	1	27	4	53
48986	116.00	118.36	2.36	-	-	42	-	-	1.2	7	186	73	3.0	23520	2	19	1	36
48987	118.36	119.36	1.00	-	-	82	-	-	.8	8	214	112	2.1	21660	1	23	1	34
48988	119.36	120.36	1.00	-	-	69	-	-	.8	6	188	99	1.9	22890	1	21	1	33

Hole No.: 90-31

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
48989	120.36	121.36	1.00	-	-	40	-	-	.5	5	46	70	.1	25240	1	15	1	17
48990	121.36	122.60	1.24	-	-	38	-	-	1.1	11	73	59	1.4	30510	1	24	1	40
48991	122.60	124.20	1.60	-	-	92	-	-	.9	11	134	73	1.8	27880	1	18	1	53
48992	124.20	125.79	1.59	-	-	76	-	-	1.2	7	107	76	.1	32310	1	22	1	44
48993	125.79	126.79	1.00	-	-	156	-	-	1.3	12	425	77	7.2	16230	3	22	6	207
48995	126.79	127.79	1.00	-	-	148	-	-	1.3	9	466	69	8.7	15150	1	31	6	193
48996	127.79	129.79	2.00	-	-	137	-	-	1.8	10	399	80	5.6	19900	2	37	6	122
48997	129.79	130.79	1.00	-	-	590	-	-	4.8	56	171	104	4.8	45610	1	360	5	977
48998	130.79	131.79	1.00	-	-	144	-	-	.8	15	348	103	5.8	23930	1	48	4	134
48999	131.79	132.79	1.00	-	-	116	-	-	1.1	14	745	100	15.6	23660	1	28	13	102
49000	132.79	133.79	1.00	-	-	137	-	-	1.1	14	667	79	10.4	26610	1	32	12	65
48651	133.79	134.79	1.00	-	-	63	-	-	.9	21	823	156	18.0	23170	1	33	15	76
48652	134.79	135.79	1.00	-	-	69	-	-	.5	18	211	151	4.9	24510	1	24	3	58
48653	135.79	136.79	1.00	-	-	437	-	-	2.9	24	764	164	16.7	24230	3	384	16	449
48654	136.79	137.79	1.00	-	-	158	-	-	1.5	14	1580	143	32.1	28920	1	47	29	471
48655	137.79	138.79	1.00	-	-	79	-	-	.7	18	275	172	3.4	32290	1	33	5	84
48656	138.79	139.79	1.00	-	-	106	-	-	1.0	22	402	146	9.4	36780	1	52	8	115
48657	139.79	140.79	1.00	-	-	311	-	-	2.3	35	1479	239	30.5	30280	1	316	30	700
48658	140.79	141.79	1.00	-	-	183	-	-	6.4	113	613	212	21.7	42070	1	653	23	1603
48659	141.79	142.79	1.00	-	-	250	-	-	5.9	34	318	182	10.9	40380	12	103	18	547
48660	142.79	143.79	1.00	-	-	635	-	-	4.3	61	2185	154	45.6	48360	29	298	48	841
48661	143.79	145.00	1.21	-	-	162	-	-	3.7	29	561	264	21.5	29210	13	203	18	1005
48662	145.00	147.00	2.00	-	-	95	-	-	3.3	31	204	345	3.9	24080	5	379	8	207
48663	147.00	149.00	2.00	-	-	80	-	-	5.6	27	40	214	1.3	28410	6	67	10	61
48664	149.00	151.00	2.00	-	-	99	-	-	6.1	39	51	131	.8	32850	2	83	9	86
48665	151.00	153.00	2.00	-	-	74	-	-	3.4	44	29	286	.4	38460	1	63	5	75
48666	153.00	155.00	2.00	-	-	102	-	-	3.5	34	51	128	.1	39950	2	55	7	74
48667	155.00	157.00	2.00	-	-	136	-	-	5.2	42	71	199	.1	36270	4	92	9	58
48668	157.00	159.00	2.00	-	-	137	-	-	2.3	89	32	356	.1	42740	2	89	6	235
48669	159.00	161.00	2.00	-	-	22	-	-	.9	45	36	224	.1	41800	1	39	7	93
48670	161.00	163.00	2.00	-	-	13	-	-	.4	47	1	365	.1	40480	2	34	6	92
48671	163.00	165.00	2.00	-	-	16	-	-	.4	44	1	242	.1	48400	1	32	5	91
48672	165.00	165.41	.41	-	-	16	-	-	.8	53	9	232	.1	50290	2	41	9	82
48673	165.41	167.41	2.00	-	-	12	-	-	.4	52	1	215	.1	43500	1	39	6	91
48674	167.41	169.41	2.00	-	-	12	-	-	.5	62	25	171	.1	47500	1	38	4	98
48675	169.41	171.41	2.00	-	-	6	-	-	.7	49	1	129	.1	45990	1	34	1	72
48676	171.41	173.41	2.00	-	-	4	-	-	.6	42	61	149	.1	38460	3	25	2	72
48677	173.41	174.94	1.53	-	-	7	-	-	1.1	50	273	182	9.1	33620	35	45	20	410
48678	174.94	175.77	.83	-	-	4	-	-	1.4	61	215	116	7.0	37330	39	57	21	365
48679	175.77	176.17	.40	-	-	4	-	-	.6	33	207	85	5.0	21310	18	35	13	241
48680	176.17	178.17	2.00	-	-	1	-	-	3.2	92	41	118	8.0	43730	36	57	25	698
48681	178.17	180.19	2.02	-	-	22	-	-	1.7	55	59	127	7.6	24950	39	53	24	767
48682	180.19	182.19	2.00	-	-	18	-	-	1.2	56	57	164	4.0	24250	44	45	27	395
48683	182.19	183.19	1.00	-	-	19	-	-	1.6	47	59	127	4.0	18750	41	40	30	379
48684	183.19	184.19	1.00	-	-	16	-	-	1.7	59	60	160	7.8	26470	43	48	32	725
48685	184.19	185.19	1.00	-	-	20	-	-	2.0	63	96	147	8.3	32340	54	46	37	582
48686	185.19	186.19	1.00	-	-	2	-	-	1.0	49	40	101	2.0	31750	16	26	9	220
48687	186.19	187.19	1.00	-	-	3	-	-	1.0	39	74	65	.1	21620	4	21	2	95
48688	187.19	188.19	1.00	-	-	2	-	-	1.1	53	52	108	.7	24950	2	27	2	110
48689	188.19	189.19	1.00	-	-	1	-	-	.5	29	37	151	.1	28870	1	21	1	117

Hole No.: 90-31

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
48690	189.19	189.83	.64	-	-	4	-	-	1.0	38	59	144	2.6	32530	2	17	1	159
48691	189.83	192.13	2.30	-	-	17	-	-	2.0	53	63	131	6.0	35350	8	39	10	458
48692	192.13	193.13	1.00	-	-	9	-	-	4.2	123	52	163	34.4	40350	24	37	15	1721
48693	193.13	194.17	1.04	-	-	12	-	-	4.2	153	98	108	14.3	46240	23	42	10	782
48694	194.17	196.17	2.00	-	-	2	-	-	2.9	74	48	134	9.0	33430	10	31	6	506
48695	196.17	199.00	2.83	-	-	4	-	-	2.6	58	41	143	13.3	31090	12	31	2	639
48696	199.00	202.00	3.00	-	-	2	-	-	.9	26	18	85	4.9	20870	5	23	1	307
48697	202.00	204.00	2.00	-	-	1	-	-	1.3	49	1	128	1.8	29720	4	23	1	175
48698	204.00	206.91	2.91	-	-	2	-	-	1.1	24	116	133	2.4	21760	2	23	1	119
48699	206.91	208.79	1.88	-	-	1	-	-	1.5	39	36	83	2.4	24190	1	22	1	177

COMP: COASTAL MTN.ENGRG.
PROJ: SIB
ATTN: M.REBAGLIATI/R.HASLINGER

90-31

MIN-EN LABS — ICP REPORT

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

90-31

FILE NO: 0S-0672-RJ1+2
DATE: 90/10/19
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48651	.9	6170	823	8	156	.1	1	5190	18.0	11	21	23170	4940	1	750	79	1	320	1	1850	33	15	7	1	1	15.4	76	1	1	1	54	63
48652	.5	9840	211	6	151	.3	1	5090	4.9	10	18	24510	6160	1	1730	192	1	380	1	1870	24	3	6	1	1	24.7	58	1	1	1	91	69
48653	2.9	5800	764	4	164	.1	1	4690	16.7	10	24	24230	4730	1	430	72	3	210	1	1660	384	16	7	1	1	14.9	449	1	1	1	60	437
48654	1.5	8060	1580	3	143	.3	1	4700	32.1	11	14	28920	5480	1	1070	107	1	310	1	1810	47	29	6	1	1	19.6	471	1	1	1	51	158
48655	.7	12300	275	1	172	.2	1	8700	3.4	11	18	32290	6010	1	3040	620	1	410	1	1710	33	5	18	1	1	32.3	84	1	1	1	60	79
48656	1.0	8250	402	1	146	.1	1	6030	9.4	12	22	36780	4750	1	1650	296	1	330	1	1520	52	8	8	1	1	22.6	115	1	1	1	43	106
48657	2.3	5240	1479	1	239	.3	1	6220	30.5	11	35	30280	3770	1	350	151	1	150	1	1450	316	30	12	1	1	12.7	700	1	1	1	57	311
48658	6.4	6270	613	1	212	.1	1	6490	21.7	10	113	42070	4100	1	400	132	1	160	1	1160	653	23	11	1	1	14.4	1603	1	1	1	64	183
48659	5.9	5320	318	1	182	.4	1	8880	10.9	14	34	40380	3450	1	420	264	12	150	1	960	103	18	13	1	1	14.3	547	1	1	1	59	250
48660	4.3	5510	2185	1	154	.1	1	7080	45.6	20	61	48360	3400	1	520	264	29	140	1	1090	298	48	9	1	1	13.2	841	1	1	1	48	635
48661	3.7	6730	561	1	264	.1	1	28480	21.5	8	29	29210	3770	1	3240	771	13	70	1	680	203	18	26	1	1	11.3	1005	1	1	1	54	162
48662	3.3	8460	204	1	345	.4	1	28160	3.9	8	31	24080	4800	1	3360	735	5	70	1	760	379	8	19	1	1	10.3	207	1	1	1	39	95
48663	5.6	8800	40	1	214	.2	1	38170	1.3	8	27	28410	4100	1	4340	843	6	80	1	960	67	10	33	1	1	13.7	61	1	1	1	17	80
48664	6.1	9160	51	1	131	.2	1	41110	.8	10	39	32850	3960	1	4310	1061	2	80	1	970	83	9	41	1	1	15.8	86	1	1	1	26	99
48665	3.4	14970	29	1	286	.5	1	13640	.4	13	44	38460	3820	6	7900	479	1	80	1	920	63	5	11	1	1	23.8	75	1	1	1	20	74
48666	3.5	13510	51	1	128	.5	1	26220	.1	12	34	39950	3850	5	7010	756	2	70	1	920	55	7	22	1	1	20.6	74	1	1	1	14	102
48667	5.2	8910	71	2	199	.5	1	8140	.1	12	42	36270	4250	1	2670	225	4	110	1	910	92	9	6	1	1	15.0	58	1	1	1	36	136
48668	2.3	16340	32	1	356	.3	1	18970	.1	12	89	42740	3900	9	16260	886	2	100	1	920	89	6	6	1	1	25.7	235	2	1	1	14	137
48669	.9	17080	36	1	224	.5	1	17990	.1	13	45	41800	3640	10	15170	597	1	130	1	900	39	7	11	1	1	29.2	93	2	1	1	11	22
48670	.4	17540	1	1	365	.6	1	15580	.1	13	47	40480	3380	12	13620	468	2	120	1	890	34	6	8	1	1	30.4	92	2	1	1	11	13
48671	.4	21530	1	1	242	.6	1	16940	.1	14	44	48400	2860	18	18270	630	1	140	1	880	32	5	8	1	1	41.0	91	3	1	1	12	16
48672	.8	15270	9	1	232	.5	1	30670	.1	15	53	50290	3270	9	25880	1357	2	140	1	830	41	9	18	1	1	32.9	82	2	2	1	11	16
48673	.4	19520	1	1	215	.2	1	12570	.1	15	52	43500	3510	13	14030	430	1	140	1	790	39	6	5	1	1	36.0	91	3	1	1	10	12
48674	.5	21140	25	1	171	.7	1	12810	.1	16	62	47500	3180	16	16820	537	1	150	1	909	38	4	5	1	1	38.5	98	4	1	1	13	12
48675	.7	11650	1	1	129	.4	1	21010	.1	14	49	45990	2890	8	19890	854	1	180	1	780	34	1	11	1	1	27.8	72	3	1	1	9	6
48676	.6	6030	61	1	149	.8	1	17880	.1	14	42	38460	2940	1	15240	471	3	170	5	790	25	2	40	1	1	18.6	72	3	1	1	24	4
48677	1.1	6650	273	1	182	.1	1	22330	9.1	10	50	33620	3590	1	13870	525	35	80	66	920	45	20	15	1	1	32.1	410	3	1	1	32	7
48678	1.4	5030	215	1	116	.7	1	23820	7.0	9	61	37330	2690	1	16880	598	39	80	74	810	57	21	32	1	1	32.4	365	2	1	1	35	4
48679	.6	3440	207	1	85	.2	1	11180	5.0	6	33	21310	1900	1	5420	186	18	80	33	500	35	13	16	1	1	14.9	241	1	1	2	187	4
48680	3.2	7190	41	1	118	.8	1	16020	8.0	11	92	43730	2700	2	10670	306	36	280	70	1020	57	25	36	1	1	44.5	698	2	1	1	22	1
48681	1.7	7730	59	8	127	.8	1	12780	7.6	8	55	24950	2790	8	9700	258	39	210	75	880	53	24	31	1	1	44.0	767	2	2	1	15	22
48682	1.2	10500	57	4	164	.8	1	11990	4.0	7	56	24250	2880	13	11910	227	44	250	95	580	45	27	32	1	1	34.2	395	4	1	1	39	18
48683	1.6	6690	59	1	127	.5	1	17750	4.0	7	47	18750	2410	4	12580	351	41	250	93	670	40	30	95	1	1	32.7	379	3	1	1	50	19
48684	1.7	8390	60	3	160	.6	1	14950	7.8	8	59	26470	2850	4	9990	285	43	220	87	1550	48	32	47	1	1	57.6	725	2	1	1	23	16
48685	2.0	7030	96	2	147	.2	1	23980	8.3	9	63	32340	3120	1	15180	675	54	210	122	1290	46	37	114	1	1	58.6	582	3	1	1	32	20
48686	1.0	4910	40	1	101	.3	1	18060	2.0	9	49	31750	1920	1	8190	786	16	280	14	1100	26	9	51	1	1	30.7	220	1	1	2	61	2
48687	1.0	2960	74	1	65	.1	1	17410	.1	6	39	21620	1390	1	6740	672	4	290	14	520	21	2	44	1	1	25.7	95	1	1	2	97	3
48688	1.1	4090	52	1	108	.1	1	9530	.7	8	53	24950	1970	1	3820	398	2	290	14	440	27	2	20	1	1	32.3	110	1	1	2	90	2
48689	.5	9190	37	1	151	.7	1	15350	.1	6	29	28870	3450	4	6880	802	1	140	2	630	21	1	31	1	1	15.4	117	1	1	1	38	1
48690	1.0	8400	59	1	144	.1	1	16600	2.6	8	38	32530	3210	3	6970	745	2	250	12	940	17	1	33	1	1	24.4	159	2	1	1	62	4
48691	2.0	6420	63	2	131	.1	1	19340	6.0	8	53	35350	2860	1	8290	743	8	140	22	940	39	10	66	1	1	32.4	458	2	1	3	86	17
48692	4.2	8540	52	3	163	.6	1	14840	34.4	12	123	40350	4270	1	5290	618	24	200	44	980	37	15	23	1	1	83.6	1721	1	1	1	28	9
48693	4.2	5410	98	2	108	.2	1	12510	14.3	12	153	46240	3170	1	4180	551	23	1110	32	620	42	10	13	1	1	49.4	782	1	1	1	17	12
48694	2.9	5010	48	1	134	.1	1	15920	9.0	9	74	33430	2860	1	4730	899	10	990	22	850	31	6	21	1	1	37.6	506	1	1	1	52	2
48695	2.6	5660	41	1	143	.3	1	30700	13.3	7	58	31090	2990	1	4560	1733	12	190	19	1780	31	2	45	1	1	33.8	639	1	1	1	41	4
48696	.9	3500	18	1	85	.1	1	17500	4.9	5	26	20870	2020	1	3240	1034	5	300	4	840	23	1	18	1	1	16.0	307	1	1	1	59	2
48697	1.3	6450	1	1	128	.4	1	9650	1.8	7	49	29720	3520	1	3700	688	4	200	14	820	23	1	20	1	1	19.9	175	1	1	1	49	1
48698	1.1	5760	116	1	133	.5	1	14430	2.4	5	24	21760	3070	1	3740	826	2	260	7	1140	23	1	23	1	1	14.6	119	1	1	1	58	2
48699	1.5	3490	36	1	83	.1	1	19630	2.4	6	39	24190	1700	1	3540	1045	1	430	9	690	22	1	36	1	1	24.1	177	1	1	3	77	1
48941	1.0	15140	92	1	101	.1	1	24600	.1	10	7	32450	5860	4	15280	1680	1	120	1	1920	30	1	10	1	1	32.3	43	3	1	1	16	8
48942	.9	10980	23	1	77	.1	1	33160	.1	9	16	36930	4520	2	21480	3157	1	110	1	1710	38	1	14	1	1	31.9	56	1	1	1	10	73
48943	.8	13750	55	1	118	.2	1	31560	.1	11	7	37860	5240	3	20570	2917	1	190	1	1750	35	1	17	1	1	34.9	45	3	1	1	18	72
48944	1.1	14840	89	1	112	.5	1	26420	.1	11	6	35950	6100	4	16420	2201	1	180	1	1910	32	1	10	1	1	33.5	55	4	1	1	14	70
48945	1.9	17700	157	1	108	.1	1	33240	1.3	12	6	36420	6390	4	11360	1752	1	180	1	1880	33	4	15	1	1	35.8	55	4	1	1	8	100
48946	1.2	19190	48	1	115	.3	1	23770	.1	11	4	35260	6080	5	12060	1411	1	150	1	1910	32	1	11	1	1	37.1	50	3	1	1	4	49
48947	1.1	21940	1	1	204	.6	1	19790	.1	11	4	35100	6270	7	10890	870	1	110	1	2080	19	1	10	1	1	38.3	60	2	1	1	1	56
48948	.8	15090	41	1	108	.1	1	27800	.1	9	5	33100	4710	5	11890	1737	2	180	1	1830	37	1	21	1	1	41.9	45	4	1	1	15	19
48949	2.5	14680	141	1	83	.1	1	30860	1.3	11	71	36020	5040	5	7750	1338	1	120	1	1830	36	1	26	1	1	36.3	44	3	1	1	9	82
48950	1.4	12560	98	1	80	.1	1	32930	1.4	11	14	34520	4650	4	7250	1436	1	100	1	1760	29	1	25	1	1	32.1	77	3	1	1	13	61
48951	.9	15960	85	1	144	.3	1	12370	.1	10	6	37450	4940	6	9350	938	2	100	1	2050	28	1	8	1	1	32.9	47	2	1	1	7	74

COMP: COASTAL MTN.ENGRG.
PROJ: SIB
ATTN: M.REBAGLIATI/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-31

FILE NO: 0S-0672-RJ3+4
DATE: 90/10/19
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
48952	.5	10120	54	6	83	.1	1	21400	.9	10	7	34270	2300	6	6150	1113	1	40	1	1450	32	1	37	1	1	44.8	46	1	1	1	17	198
48953	.9	10410	63	5	71	.1	1	19320	.1	11	8	37960	2950	4	6450	1149	1	80	1	1440	29	1	25	1	1	42.6	34	1	1	1	14	176
48954	.6	11800	50	2	85	.1	1	10020	.1	10	19	34750	3890	4	5920	601	1	60	1	1160	26	1	10	1	1	33.8	58	1	1	1	19	306
48955	.5	6620	89	4	116	.3	1	13100	1.5	10	7	26610	4780	1	3180	575	1	90	1	1480	16	1	13	1	1	12.8	34	1	1	1	29	60
48956	1.1	6790	79	3	80	.1	1	28250	.9	12	7	49560	2860	2	10180	1847	2	80	1	1450	28	1	20	1	1	25.5	54	1	1	1	21	148
48957	.6	11000	22	1	83	.1	1	27800	.3	10	5	41760	3290	6	19540	2465	4	70	1	1870	36	1	19	1	1	41.0	48	2	2	1	12	55
48958	.5	11400	23	1	126	.1	1	24650	.4	10	8	39520	3900	5	13450	2013	1	100	1	1710	33	1	15	1	1	40.1	35	2	1	1	22	26
48959	.3	11700	28	2	293	.2	1	15590	.8	10	10	29250	5340	2	8440	1367	1	160	1	1870	27	1	5	1	1	30.5	42	2	1	1	21	37
48960	.7	16330	16	1	99	.4	1	28100	.1	11	12	36600	4730	7	12910	1984	1	150	1	1850	32	1	14	1	1	36.8	96	2	1	1	5	38
48961	.5	18010	3	1	92	.2	1	34520	.1	10	4	37910	4310	9	19390	3148	1	170	1	1730	36	1	15	1	1	45.9	56	3	1	1	10	34
48962	.5	10620	1	1	76	.1	1	26400	.1	10	6	34790	4130	3	8360	1797	1	130	1	1900	25	1	14	1	1	28.6	32	1	1	1	12	40
48963	.3	17210	1	1	92	.1	1	15700	.1	11	8	38820	4910	7	8150	694	1	160	1	2060	27	1	6	1	1	41.3	50	2	1	1	7	63
48964	.7	15820	1	1	107	.1	1	16230	.1	11	8	35930	4920	6	7320	877	1	190	1	1920	23	1	10	1	1	46.1	52	2	1	1	14	34
48965	.7	9710	33	3	129	.1	1	17320	.1	10	9	34380	5830	1	5020	994	1	210	1	2090	24	1	13	1	1	29.0	40	1	1	1	14	42
48966	.9	4760	128	1	77	.1	1	22850	2.5	7	17	22460	3490	1	2120	1084	2	40	1	1130	25	1	42	1	1	15.3	36	1	1	1	34	92
48967	.7	8670	139	1	61	.1	1	19420	3.0	10	9	34390	3490	3	3840	791	4	60	1	1520	23	1	23	1	1	24.1	34	1	1	1	12	302
48968	1.1	9210	228	1	70	.1	1	19640	2.8	10	15	33040	3720	2	3860	724	3	90	1	1780	17	2	20	1	1	27.7	39	1	1	1	19	124
48969	1.5	11260	193	1	70	.1	1	34720	1.9	11	10	38040	3540	6	7650	2095	16	70	1	1630	175	3	21	1	1	40.6	82	2	1	1	18	123
48970	.7	13410	10	1	67	.2	1	23110	.1	11	6	35020	3780	7	8860	1224	2	120	1	1700	32	1	19	1	1	35.7	39	2	2	1	15	105
48971	.7	12150	87	1	73	.1	1	23400	.3	11	11	35850	3650	6	7460	1183	1	120	1	1930	56	1	32	1	1	38.6	61	1	1	1	19	56
48972	.8	11420	246	1	86	.1	1	19650	4.2	12	14	35160	3710	4	5890	869	1	170	1	2000	28	3	20	1	1	39.8	41	1	1	1	25	58
48973	.5	14200	90	1	70	.1	1	21820	.1	11	5	37160	4410	5	6900	1147	1	170	1	1850	23	1	16	1	1	37.8	31	2	1	1	19	164
48974	.6	12170	35	1	67	.1	1	24690	.1	9	8	33060	4130	4	6240	1344	2	180	1	1820	25	1	19	1	1	37.0	34	1	2	1	13	59
48975	.9	13280	351	1	75	.1	1	22730	5.5	10	8	36410	4190	5	7300	1161	1	190	1	1860	28	10	18	1	1	40.2	39	3	1	1	24	63
48976	.7	14590	137	1	88	.1	1	27820	2.0	10	6	33120	4130	7	9700	1673	1	210	5	1880	26	3	24	1	1	38.8	49	3	2	1	13	18
48977	.8	13800	14	1	76	.1	1	24930	.1	11	14	36840	3870	6	13050	2212	2	210	1	1790	31	1	10	1	1	39.9	43	2	5	1	10	3
48978	.8	10930	82	1	93	.1	1	22440	.1	9	5	32680	4530	3	7140	1431	2	210	1	1850	28	1	14	1	1	28.8	35	2	1	1	17	22
48979	1.1	8560	141	1	74	.1	1	22490	1.5	8	7	28510	3510	2	4170	839	1	160	1	1730	41	1	22	1	1	27.8	62	1	1	1	20	29
48980	1.1	9230	116	1	74	.1	1	20530	2.4	11	9	34020	3810	2	3920	707	1	200	1	1780	23	1	18	1	1	30.9	37	1	1	1	20	78
48981	1.1	6940	218	1	63	.1	1	19220	3.4	9	7	29580	3420	1	2550	593	1	180	1	1740	16	1	18	1	1	22.4	29	1	1	1	18	96
48982	1.1	3110	177	3	50	.1	1	15440	3.6	8	10	27840	2560	1	920	387	1	100	1	1810	21	1	18	1	1	11.0	87	1	1	1	12	300
48983	1.1	2070	165	3	72	.1	1	14780	.5	12	7	38290	2230	1	200	439	1	180	1	1610	24	1	3	1	1	7.3	19	1	1	1	21	142
48984	1.8	3960	137	1	87	.1	1	14990	2.8	13	15	26020	2830	1	880	362	1	150	1	1650	26	1	18	1	1	14.1	103	1	1	1	19	150
48985	1.5	8240	248	1	76	.2	1	11370	5.0	9	9	25830	4180	3	2840	299	1	180	1	1690	27	4	7	1	1	18.3	53	1	3	1	18	162
48986	1.2	5260	186	1	73	.1	1	8340	3.0	8	7	23520	3960	1	1280	178	2	190	1	1450	19	1	7	1	1	12.0	36	1	1	1	20	42
48987	.8	4470	214	1	112	.1	1	7230	2.1	10	8	21660	3620	1	650	145	1	210	1	1480	23	1	5	1	1	13.8	34	1	1	1	40	82
48988	.8	3470	188	1	99	.1	1	11100	1.9	7	6	22890	2880	1	660	286	1	120	1	1380	21	1	15	1	1	9.7	33	1	1	2	39	69
48989	.5	5030	46	1	70	.1	1	17600	.1	6	5	25240	2160	2	2550	640	1	110	1	1260	15	1	20	1	1	16.8	17	1	1	1	35	40
48990	1.1	8050	73	1	59	.1	1	17570	1.4	8	11	30510	2070	5	4870	703	1	130	1	1380	24	1	12	1	1	25.8	40	2	1	1	16	38
48991	.9	5970	134	1	73	.1	1	10380	1.8	9	11	27880	2540	3	2580	309	1	200	1	1410	18	1	13	1	1	16.9	53	1	1	1	31	92
48992	1.2	9000	107	1	76	.1	1	17240	.1	9	7	32310	2840	6	4830	605	1	200	1	1470	22	1	7	1	1	22.3	44	2	1	1	20	76
48993	1.3	3020	425	1	77	.3	1	22080	7.2	6	12	16230	2440	1	640	679	3	150	1	1420	22	6	18	1	1	9.4	207	1	1	1	32	156
48994	.5	12100	15	1	126	.2	1	13010	.1	8	7	30470	4240	5	8800	792	1	130	1	2000	22	1	4	1	1	24.4	46	2	1	2	7	105
48995	1.3	2670	466	1	69	.1	1	32430	8.7	6	9	15150	2570	1	430	1286	1	160	1	1320	31	6	18	1	1	8.6	193	1	1	1	29	148
48996	1.8	3080	399	1	80	.1	1	33540	5.6	7	10	19900	2570	1	870	1559	2	120	1	1330	37	6	22	1	1	9.0	122	1	1	1	21	137
48997	4.8	7240	171	1	104	.1	1	9650	4.8	12	56	45610	3580	3	2800	449	1	140	1	1500	360	5	10	1	1	21.2	977	1	1	1	30	590
48998	.8	3500	348	1	103	.2	1	5390	5.8	9	15	23930	3160	1	250	93	1	90	1	1500	48	4	8	1	1	8.5	134	1	1	1	26	144
48999	1.1	3190	745	1	100	.1	1	6250	15.6	9	14	23660	2810	1	230	72	1	140	1	1750	28	13	5	1	1	8.5	102	1	1	1	34	116
49000	1.1	2660	667	1	79	.1	1	4480	10.4	10	14	26610	2570	1	250	61	1	140	1	1560	32	12	5	1	1	7.6	65	1	1	1	21	137

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-32

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 104B/9	CLAIM #	: SIB 14		
LOCAL GRID	: 8266.52 N / 10033.65 E	GLOBAL GRID	: 12570.95 N / 17774.90 E	ELEVATION	: 996.16 metres
LENGTH	: 99.97 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 117.0 degrees
OVERBURDEN	: 1.28 m	CASING	: 1.28 metres	ASSAYING BY	: Min-En Labs
LOGGED BY	: Guy LePage	DRILLED BY	: J.T. Thomas	CORE LOCATION	: 101+00 N, 98+00 E
DATE LOGGED	: 1990/10/05 Y/M/D	DATE DRILLED	: 1990/10/03 Y/M/D	SAMPLE NO. SERIES	: 46001-46067

ACID TESTS

Depth	Dip	Azimuth
99.97	-41.5	117.0

SUMMARY LOG 90-32

From(m)	To(m)	Field Name (Legend)
0.00	1.28	CASING
1.28	37.20	FELSIC TUFF(+-QUARTZ/CALCITE FRAGMENTS) (UNIT 21)
37.20	67.05	ARGILLACEOUS SILTSTONE(with minor tuffaceous interbeds) (UNIT 12)
67.05	99.97	POTASSIC FLOODED LAPILLI FRAGMENTAL (UNIT 11)
99.97		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-32

No Significant Results.

From(m)	To(m)	Description
0.00	1.28	CASING
1.28	37.20	FELSIC TUFF(+-QUARTZ/CALCITE FRAGMENTS) (UNIT 21) Plagioclase Phenocrysts: Anhedral to shearing to electrum, 1 to 2mm in length(20 to 25%). Composition Quartz: Phenocrysts, milky to semi-translucent, average 8 to 12mm in width(5 to 10%). Fragments: 3 to 4%. Occasional argillaceous mudstone fragments, up to 4 to 5cm in width(ooids 0.3 to 0.5mm in width). Groundmass: Argillaceous grading to plagioclase rich, black ,aphanitic. Structure Bedding: 15 to 20 degrees to core axis. Grading to 30 degrees to core axis toward the lower contact. Jointing: parallel to bedding. Alteration Sericite: Weak to Moderate. Alteration if plagioclase phenocrysts throughout. Slight increase towards 37.20 metres. Potassic: Weak. Towards 37.20 metres is a weak pervasive potassic alteration corresponding with a decrease in quartz rounded fragments and decrease in grain size. Silicification: Unit is overprinted by light grey siliceous pervasive assemblege, occasionally fracture destructive. Locally abundant from 5cm up to several metres. 10 to 15% throughout oriented roughly parallel to the bedding/foliation. Mineralization Pyrite: 7 to 10%. Blebs and clusters with quartz/calcite fragments. Discrete veins and blebs as selvedges within quartz/calcite/argillite breccia pipes(at the margins of the breccia/wall rock contact) or as massive pyrite veins oriented at 15 to 20 degrees to core axis(0.5 to 10 mm width, average 3mm). Disseminations, blebs and veins oriented parallel to bedding at 20 degrees to core axis. Veins and Sub-Intervals Quartz-breccia Veining. Core axis angle parallel to bedding. Brecciated fragments included angular argillaceous clasts average 10 to 15mm in length(usually elongate) and minor calcite specks and blebs. Veins average 10

From(m)	To(m)	Description
		to 15 cm in width with a range from 2 to 3mm up to 3 to 4cm in width, frequency 1 to 2 per metre. <28.35>-<32.20>: Decrease in pyrite(3 to 5%) blebs, disseminations and veinlets corresponding with a decrease in the % volume of quartzose rounded fragments and quartz/calcite/argillite breccia pipes. Pyrite mostly in veins at 15 to 20 degrees to core axis(0.3 to 5.0mm width, average 0.8 to 1.0mm).
37.20	67.05	ARGILLACEOUS SILTSTONE(with minor tuffaceous interbeds) (UNIT 12) Composition Tuffaceous: From 37.20 to 40.82 metres the unit consist foliation a series of plagioclase porphyry tuffaceous beds varying from 5.0cm up to 60cm in width interbedded with black argillaceous siltstone beds with bedding oriented at 60 to 65 degrees to core axis. Siltstone: From 40.82 to 67.05 metres the beds are of a muddy-silty nature. Becomes fossiliferous downhole with abundant brachiopods, crinoids and rugosa. Interbedded with plagioclase porphyry argillaceous tuff approaching 62.40 metres. Structure Bedding: 30 to 35 degrees to core axis. Jointing: parallel to bedding. Alteration Carbonitized: Strong. Towards lower contact. Mineralization Pyrite: Trace. Fine disseminations and occasional blebs(+-quartz+-calcite). Rare veins(0.3 to 4mm in width, average 0.8mm) oriented parallel to the bedding plane. Sub-Intervals <59.30>-<60.00>: FAULT ZONE. Badly broken core and graphitic throughout. Upper contact and lower contact unclear however planar deformation appears to have occurred at 35 degrees to core axis.
67.05	99.97	POTASSIC FLOODED LAPILLI FRAGMENTAL (UNIT 11) Composition Fragments: Interbedded with tuffaceous horizons. Porphyritic phase of euhedral to subhedral plagioclase phenocrysts averaging 0.5 to 0.8mm in length set in a potassic flooded groundmass(originally plagioclase rich?). Fragments are light to medium grey, angular to sub-angular, 3 to 4mm up to 10cm width(average 3.0cm).

From(m) To(m) ----------Description----------

Stockwork: 1 to 3%. Interstitial to volcanic fragments, black, chloritic to argillaceous.

Structure

Jointing: 30 degrees to core axis. Parallel the orientation of the siliceous veins.

Alteration

Potassic: Strong. Flooding of volcanic fragments throughout(locally up to 55 to 65%).

Silicification: Moderate. Unit is postdated by a grey to pinkish grey, aphanitic, siliceous stockwork and vein array, locally reaching 10 to 15% over 1 metre, oriented at 30 degrees to core axis.

Mineralization

Pyrite: 3 to 5%. Mostly as blebs, clusters and disseminations interstitial to the volcanic fragments.

Sub-Intervals

<88.70>-<99.97>: Pyrite 1 to 3%.

99.97 END OF HOLE.

Hole No.: 90-32

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	1.28	1.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46001	1.28	3.10	1.82	-	-	4	-	-	2.0	46	1	82	.1	37840	1	25	2	53
46002	3.10	4.10	1.00	-	-	16	-	-	2.2	44	49	66	.1	42240	1	19	4	73
46003	4.10	5.10	1.00	-	-	12	-	-	2.1	40	33	58	.1	44620	2	25	2	69
46004	5.10	6.10	1.00	-	-	1	-	-	1.9	46	65	61	.1	42000	1	29	3	57
46005	6.10	7.54	1.44	-	-	36	-	-	1.5	37	2	68	.1	44590	1	28	1	60
46006	7.54	8.39	.85	-	-	12	-	-	2.1	40	107	52	.1	40720	1	12	2	99
46007	8.39	9.39	1.00	-	-	1	-	-	1.6	52	136	70	.1	38810	2	20	1	69
46008	9.39	10.39	1.00	-	-	4	-	-	1.8	47	107	75	.1	39270	2	16	1	57
46009	10.39	11.39	1.00	-	-	1	-	-	1.8	42	178	86	2.8	30050	1	15	4	64
46010	11.39	12.39	1.00	-	-	2	-	-	1.3	34	76	75	.2	30260	3	25	1	81
46011	12.39	13.39	1.00	-	-	2	-	-	1.9	50	204	56	.1	45830	1	24	2	50
46012	13.39	14.39	1.00	-	-	13	-	-	1.7	53	127	65	.7	43810	1	15	2	77
46013	14.39	15.39	1.00	-	-	2	-	-	1.8	41	148	64	.1	46530	1	20	2	62
46014	15.39	15.93	.54	-	-	1	-	-	1.3	40	88	151	.1	35240	1	19	1	71
46015	15.93	16.93	1.00	-	-	1	-	-	.6	44	30	82	.7	16480	3	21	1	93
46016	16.93	17.93	1.00	-	-	4	-	-	1.3	38	28	65	.1	31210	1	13	1	70
46017	17.93	19.00	1.07	-	-	10	-	-	1.7	35	459	80	5.0	54370	1	15	5	94
46018	19.00	19.83	.83	-	-	6	-	-	.6	41	1284	60	20.9	65620	4	14	9	451
46019	19.83	20.83	1.00	-	-	1	-	-	1.2	62	1282	70	19.3	68730	1	17	2	65
46020	20.83	21.88	1.05	-	-	1	-	-	1.3	38	638	47	10.2	43170	1	19	1	55
46021	21.88	22.88	1.00	-	-	9	-	-	1.3	50	1004	48	14.0	64140	1	6	3	44
46022	22.88	23.88	1.00	-	-	2	-	-	1.3	42	495	49	4.6	52500	1	9	1	33
46023	23.88	24.19	.31	-	-	16	-	-	1.1	41	1264	45	13.9	88810	1	13	1	44
46024	24.19	24.85	.66	-	-	64	-	-	1.4	40	880	59	10.9	85720	1	6	1	38
46025	24.85	25.88	1.03	-	-	30	-	-	2.1	24	1	33	.1	53990	1	6	1	31
46026	25.88	26.88	1.00	-	-	2	-	-	1.7	37	47	47	.1	41500	1	6	1	33
46027	26.88	27.88	1.00	-	-	4	-	-	1.4	41	1	53	.1	36310	1	9	1	50
46028	27.88	28.70	.82	-	-	2	-	-	1.4	37	125	54	.1	50750	1	16	6	39
46029	28.70	29.80	1.10	-	-	7	-	-	1.4	39	83	48	.1	48050	1	10	1	59
46030	29.80	30.85	1.05	-	-	4	-	-	1.2	40	1	44	.1	48120	1	6	1	66
46031	30.85	31.22	.37	-	-	2	-	-	1.4	46	209	51	.1	62950	1	10	11	72
46032	31.22	33.22	2.00	-	-	20	-	-	1.2	45	1	60	.1	42890	1	11	1	62
46033	33.22	34.22	1.00	-	-	2	-	-	1.5	48	9	58	.1	50420	1	13	1	51
46034	34.22	35.57	1.35	-	-	22	-	-	1.6	43	18	58	.1	56010	1	23	7	41
46035	35.57	37.05	1.48	-	-	41	-	-	1.8	47	102	62	.1	59970	1	55	8	55
46036	37.05	38.20	1.15	-	-	26	-	-	1.5	26	2	86	.1	41100	1	24	3	48
46037	38.20	40.20	2.00	-	-	16	-	-	1.5	31	8	74	.1	36670	3	26	3	72
46038	40.20	42.20	2.00	-	-	112	-	-	1.6	31	1	82	.1	44700	1	27	4	71
46039	42.20	44.20	2.00	-	-	14	-	-	.6	47	1	104	.1	43320	1	23	6	93
46040	44.20	46.20	2.00	-	-	42	-	-	1.7	32	1	85	.1	39920	2	34	9	67
46041	46.20	48.20	2.00	-	-	86	-	-	3.2	45	53	110	.1	36040	2	57	13	82
46042	48.20	50.20	2.00	-	-	110	-	-	4.4	39	34	99	.1	35610	2	70	10	59
46043	50.20	52.20	2.00	-	-	40	-	-	3.5	89	34	89	.1	39250	1	52	9	80
46044	52.20	54.20	2.00	-	-	58	-	-	3.2	43	1	83	.1	44010	1	36	8	69
46045	54.20	56.20	2.00	-	-	36	-	-	2.2	39	18	98	.1	27690	2	43	8	74
46046	56.20	58.20	2.00	-	-	26	-	-	1.6	28	13	84	.1	30930	3	22	6	53
46047	58.20	60.20	2.00	-	-	42	-	-	1.2	26	1	101	.1	32140	3	30	5	61
46048	60.20	62.20	2.00	-	-	39	-	-	2.5	22	36	119	.1	31410	4	34	8	90
46049	62.20	64.20	2.00	-	-	78	-	-	3.0	15	23	178	.1	29470	2	47	7	36

Hole No.: 90-32

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
46050	64.20	66.20	2.00	-	-	46	-	-	1.6	8	28	135	.1	17380	5	29	2	42
46051	66.20	67.05	.85	-	-	118	-	-	3.3	18	121	98	.1	20780	7	49	6	67
46052	67.05	69.05	2.00	-	-	55	-	-	1.3	34	38	134	.3	22900	2	33	2	87
46053	69.05	71.05	2.00	-	-	224	-	-	1.1	25	2181	124	42.1	23200	1	39	36	73
46054	71.05	73.05	2.00	-	-	178	-	-	1.1	20	1779	127	37.7	18790	2	30	37	77
46055	73.05	75.05	2.00	-	-	206	-	-	2.2	55	1617	134	30.1	20680	1	189	34	315
46056	75.05	77.05	2.00	-	-	43	-	-	1.8	45	144	476	3.1	13660	1	219	3	206
46057	77.05	79.05	2.00	-	-	175	-	-	1.6	40	374	165	6.5	20230	1	62	10	118
46058	79.05	81.05	2.00	-	-	324	-	-	1.4	13	1271	132	23.1	30040	1	56	16	90
46059	81.05	83.05	2.00	-	-	226	-	-	1.3	10	586	154	9.7	30840	2	33	7	130
46060	83.05	85.66	2.61	-	-	48	-	-	1.0	16	73	154	.1	28800	2	26	1	64
46061	85.66	87.66	2.00	-	-	247	-	-	2.0	23	229	117	.5	43070	1	38	3	56
46062	87.66	88.70	1.04	-	-	196	-	-	2.0	24	198	122	.1	38180	3	50	2	46
46063	88.70	90.70	2.00	-	-	82	-	-	1.2	18	41	117	.1	38890	2	36	1	126
46064	90.70	92.70	2.00	-	-	111	-	-	1.7	21	1	114	.1	36410	1	35	1	60
46065	92.70	94.70	2.00	-	-	77	-	-	2.1	54	39	106	.1	40510	6	175	1	289
46066	94.70	97.70	3.00	-	-	80	-	-	1.4	11	5	101	.1	35280	1	13	1	70
46067	97.70	99.97	2.27	-	-	63	-	-	1.9	8	1	88	.1	38520	1	15	1	58

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: M. REBAGLIATI/R. HASLINGER

MIN-EN LABS — ICP REPORT

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

90-32

FILE NO: OS-0698-RJ1+2
DATE: 90/10/24
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
46001	2.0	8920	1	11	82	.3	1	33840	.1	27	46	37840	3150	4	30130	2003	1	150	27	600	25	2	3	1	1	44.9	53	1	1	1	33	4
46002	2.2	6480	49	8	66	.2	1	37310	.1	29	44	42240	2390	1	32030	2173	1	130	20	580	19	4	4	1	1	40.6	73	1	1	1	15	16
46003	2.1	5460	33	6	58	.3	1	33880	.1	33	40	44620	2600	1	27700	1978	2	180	31	710	25	2	5	1	1	45.5	69	1	1	1	18	12
46004	1.9	5930	65	5	61	.3	1	37790	.1	30	46	42000	2940	1	30390	2195	1	640	26	710	29	3	5	1	1	46.6	57	1	1	1	18	1
46005	1.5	7300	2	7	68	.1	1	37480	.1	28	37	44590	3450	1	30560	1759	1	150	20	620	28	1	3	1	1	46.5	60	1	1	1	22	36
46006	2.1	5180	107	5	52	.3	1	44900	.1	27	40	40720	2220	1	41920	2067	1	100	26	510	12	2	3	1	1	35.9	99	1	1	1	17	12
46007	1.6	7670	136	5	70	.2	1	35880	.1	31	52	38810	3370	1	30100	1857	2	160	29	690	20	1	2	1	1	49.6	69	1	1	1	33	1
46008	1.8	7290	107	5	75	.3	1	33630	.1	31	47	39270	3120	2	28000	1850	2	170	24	780	16	1	5	1	1	52.0	57	1	1	2	21	4
46009	1.8	5810	178	2	86	.4	1	36010	2.8	38	42	30050	2870	1	29530	1967	1	190	48	690	15	4	4	1	1	41.4	64	1	1	1	18	1
46010	1.3	6660	76	3	75	.4	1	28390	.2	28	34	30260	3000	1	21720	1236	3	510	28	730	25	1	1	1	1	38.7	81	1	1	1	29	2
46011	1.9	5270	204	3	56	.3	1	36280	.1	32	50	45830	2420	1	29670	1750	1	440	32	680	24	2	3	1	1	39.4	50	1	1	1	11	2
46012	1.7	4820	127	3	65	.1	1	36000	.7	30	53	43810	2230	1	29510	1666	1	590	23	600	15	2	5	1	1	36.0	77	1	1	1	15	13
46013	1.8	5810	148	3	64	.1	1	38620	.1	33	41	46530	2870	1	31990	1674	1	630	26	590	20	2	5	1	1	41.6	62	1	1	1	20	2
46014	1.3	6110	88	3	151	.7	1	33500	.1	32	40	35240	2890	1	26880	1473	1	160	22	560	19	1	2	1	1	40.6	71	1	1	1	19	1
46015	.6	7130	30	3	82	.8	1	20820	.7	26	44	16480	3380	1	13490	644	3	190	23	750	21	1	1	1	1	32.8	93	2	1	3	31	1
46016	1.3	6730	28	3	65	.2	1	33030	.1	27	38	31210	3130	1	25630	1481	1	180	24	670	13	1	2	1	1	40.1	70	1	1	1	21	4
46017	1.7	5010	459	4	80	.1	1	41920	5.0	32	35	54370	2530	1	35440	2084	1	150	25	480	15	5	4	1	1	36.6	94	1	1	1	14	10
46018	.6	6440	1284	5	60	.1	1	20570	20.9	47	41	65620	3060	1	12780	756	4	190	58	710	14	9	1	1	1	29.8	451	1	1	1	16	6
46019	1.2	5660	1282	5	70	.1	1	33120	19.3	38	62	68730	2680	1	25310	1596	1	160	32	610	17	2	2	1	1	40.2	65	1	1	1	8	1
46020	1.3	5920	638	3	47	.4	1	34080	10.2	31	38	43170	2530	1	28150	1621	1	170	31	640	19	1	5	1	1	35.9	55	1	1	1	11	1
46021	1.3	6340	1004	5	48	.1	1	38240	14.0	36	50	64140	2650	1	30670	1577	1	160	24	640	6	3	5	1	1	34.4	44	1	1	1	4	9
46022	1.3	9090	495	4	49	.2	1	33770	4.6	31	42	52500	2610	2	30450	1304	1	190	21	640	9	1	5	1	1	38.9	33	1	1	1	13	2
46023	1.1	12460	1264	6	45	.1	1	32040	13.9	37	41	88810	2350	6	29790	1101	1	140	25	580	13	1	5	1	1	38.7	44	1	1	1	1	16
46024	1.4	14780	880	6	59	.1	1	37100	10.9	31	40	85720	1990	10	36840	1378	1	130	19	480	6	1	8	1	1	46.9	38	1	2	1	1	64
46025	2.1	9120	1	3	33	.1	1	59270	.1	20	24	53990	1310	5	59920	2768	1	100	10	280	6	1	9	1	1	41.2	31	1	1	1	9	30
46026	1.7	5770	47	2	47	.2	1	44270	.1	26	37	41500	2300	1	41580	2432	1	160	27	480	6	1	11	1	1	42.0	33	1	1	1	12	2
46027	1.4	9160	1	3	53	.6	1	38180	.1	28	41	36310	2430	3	35700	1996	1	190	28	600	9	1	8	1	1	47.3	50	1	1	1	14	4
46028	1.4	5800	125	3	54	.4	1	37420	.1	29	37	50750	2360	1	30970	1579	1	160	21	670	16	6	11	1	1	41.2	39	1	1	1	9	2
46029	1.4	11620	83	3	48	.2	1	37950	.1	30	39	48050	1800	9	36550	1850	1	150	27	420	10	1	16	1	1	48.8	59	1	1	1	12	7
46030	1.2	22720	1	5	44	.4	1	28180	.1	32	40	48120	1860	22	34710	1263	1	160	21	590	6	1	7	1	1	85.4	66	1	1	1	19	4
46031	1.4	9960	209	13	51	.1	2	29400	.1	34	46	62950	1600	8	26190	1203	1	110	24	480	10	11	10	1	1	43.1	72	1	1	1	6	2
46032	1.2	18030	1	11	60	.3	1	26610	.1	27	45	42890	2380	16	28830	1104	1	130	24	500	11	1	7	1	1	61.2	62	1	4	1	19	20
46033	1.5	9510	9	10	58	.4	1	31970	.1	32	48	50420	2570	5	28260	1438	1	130	23	590	13	1	11	1	1	44.5	51	1	1	1	16	2
46034	1.6	5340	18	9	58	.1	1	26900	.1	31	43	56010	2490	1	20880	1381	1	160	22	600	23	7	14	1	1	36.2	41	1	1	1	9	22
46035	1.8	4410	102	8	62	.3	1	15270	.1	31	47	59970	2410	1	13260	547	1	140	18	560	55	8	5	1	1	28.0	55	1	2	1	6	41
46036	1.5	6670	2	6	86	.3	2	23940	.1	15	26	41100	2630	1	16730	900	1	630	5	780	24	3	9	1	1	18.0	48	2	1	1	8	26
46037	1.5	5400	8	5	74	.5	1	24180	.1	14	31	36670	2490	1	17290	860	3	910	5	1060	26	3	6	1	1	21.8	72	1	1	1	14	16
46038	1.6	4720	1	6	82	.5	2	29980	.1	14	31	44700	2640	1	22760	1134	1	960	2	1030	27	4	6	1	1	24.2	71	1	1	1	3	112
46039	.6	4960	1	6	104	.5	1	13090	.1	14	47	43320	3000	1	10890	443	1	900	2	850	23	6	3	1	1	17.6	93	1	1	1	1	14
46040	1.7	4820	1	7	85	.6	1	23470	.1	12	32	39920	2910	1	14870	836	2	1090	2	830	34	9	10	1	1	17.3	67	1	1	1	2	42
46041	3.2	5260	53	5	110	.8	1	11850	.1	12	45	36040	3210	1	7210	398	2	1300	3	690	57	13	4	1	1	13.9	82	1	1	1	2	86
46042	4.4	5420	34	5	99	.5	1	11790	.1	11	39	35610	3250	1	7760	506	2	930	3	740	70	10	3	1	1	14.1	59	1	1	1	5	110
46043	3.5	5620	34	6	89	.3	1	13690	.1	13	89	39250	3190	1	11200	692	1	940	1	690	52	9	3	1	1	16.6	80	1	1	1	1	40
46044	3.2	7300	1	5	83	.6	1	24400	.1	12	43	44010	2960	1	19010	1708	1	830	3	720	36	8	9	1	1	20.0	69	1	1	1	4	58
46045	2.2	5420	18	4	98	.8	1	17640	.1	10	39	27690	3330	1	11120	1069	2	990	3	740	43	8	3	1	1	13.9	74	1	1	1	3	36
46046	1.6	4710	13	4	84	.6	1	20630	.1	10	28	30930	2740	1	11160	669	3	940	4	750	22	6	7	1	1	13.9	53	2	1	1	5	26
46047	1.2	8420	1	3	101	.6	2	13740	.1	11	26	32140	2940	1	8770	425	3	1850	1	720	30	5	3	1	1	15.6	61	2	1	1	6	42
46048	2.5	8320	36	3	119	.4	1	24190	.1	9	22	31410	3210	1	10680	800	4	900	3	920	34	8	10	1	1	14.6	90	2	1	1	10	39
46049	3.0	6030	23	3	178	.3	1	39460	.1	9	15	29470	2900	1	14320	1722	2	70	1	760	47	7	18	1	1	13.4	36	2	1	1	12	78
46050	1.6	7110	28	2	135	.4	1	13500	.1	5	8	17380	3110	1	6230	674	5	50	1	650	29	2	3	2	1	4.8	42	2	1	1	17	46
46051	3.3	4880	121	2	98	.3	1	4020	.1	7	18	20780	2720	1	1650	140	7	40	1	490	49	6	2	1	1	6.1	67	1	1	2	60	118
46052	1.3	6720	38	3	134	.1	1	5040	.3	9	34	22900	4780	1	860	67	2	110	1	1560	33	2	6	1	1	11.4	87	1	1	1	34	55
46053	1.1	6420	2181	3	124	.2	1	4530	42.1	8	25	23200	4560	1	770	55	1	130	1	1450	39	36	5	1	1	11.0	73	1	1	1	37	224
46054	1.1	6390	1779	3	127	.2	1	4740	37.7	9	20	18790	4560	1	690	70	2	140	1	1500	30	37	6	1	1	11.2	77	1	1	1	40	178
46055	2.2	5490	1617	3	134	.3	1	3850	30.1	9	55	20680	3840	1	540	55	1	110	1	1400	189	34	4	1	1	9.5	315	1	1	1	33	206
46056	1.8	5900	144	2	476	.1	1	3730	3.1	7	45	13660	4020	1	510	63	1	60	1	1310	219	3	7	1	1	9.3	206	1	1	1	36	43
46057	1.6	4910	374	2	165	.4	1	3280	6.5	7	40	20230	3540	1	450	47	1	60	1	1120	62	10	5	1	1	8.3	118	1	1	2	53	175
46058	1.4	4780	1271	3	132	.1	1	3630	23.1	9	13	30040	3520	1	370	21	1	130	1	1420	56	16	5	1	1	8.2	90	1	1	1	38	324
46059	1.3	9880	586	5	154	.1	1	6530	9.7	11	10	30840	4420	2	3270	184	2	160	1	2020	33	7	7	1	1	18.3	130	1	1	1	32	226
46060	1.0	10840	73	4	154	.5	2	5540	.1	10	16	28800	3770	4	4440	189	2	110	1	1790	26	1	7	1	1	17.9	64	2	1	1	8	48

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: M. REBAGLIATI/R. HASLINGER

MIN-EN LABS — ICP REPORT

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

90-32

FILE NO: 0S-0698-RJ3
DATE: 90/10/24
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
46061	2.0	7780	229	9	117	.1	1	7520	.5	11	23	43070	3330	4	3200	200	1	130	1	1630	38	3	8	1	1	16.7	56	1	1	1	14	247
46062	2.0	7630	198	4	122	.3	1	7310	.1	11	24	38180	3420	3	3500	198	3	70	1	1680	50	2	8	1	1	16.3	46	1	1	1	21	196
46063	1.2	12900	41	3	117	.2	1	16190	.1	13	18	38890	3660	9	12550	1232	2	120	1	1900	36	1	10	1	1	33.9	126	1	1	1	4	82
46064	1.7	12520	1	1	114	.3	1	27580	.1	11	21	36410	3520	7	20100	2566	1	250	1	1960	35	1	19	1	1	44.7	60	1	1	1	11	111
46065	2.1	14660	39	1	106	.5	1	18640	.1	14	54	40510	2920	10	15470	1275	6	160	1	2070	175	1	11	1	1	38.9	289	3	3	1	9	77
46066	1.4	14730	5	1	101	.3	1	22150	.1	11	11	35280	2860	10	18410	1973	1	220	1	1790	13	1	15	1	1	46.3	70	2	1	1	8	80
46067	1.9	13420	1	1	88	.4	2	30210	.1	12	8	38520	3060	9	24670	2598	1	210	1	1980	15	1	31	1	1	49.4	58	1	2	1	4	63

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-33

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 104B/9	CLAIM #	: SIB 14		
LOCAL GRID	: 8405.34 N / 9964.17 E	GLOBAL GRID	: 12726.18 N / 17775.35 E	ELEVATION	: 1013.61 metres
LENGTH	: 148.76 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 117.0 degrees
OVERBURDEN	: 1.38 m	CASING	: 1.38 metres.	ASSAYING BY	: Min-En Labs
LOGGED BY	: Guy LePage	DRILLED BY	: J.T. Thomas	CORE LOCATION	: 101+00 N, 98+00 E
DATE LOGGED	: 1990/10/06 Y/M/D	DATE DRILLED	: 1990/10/04 Y/M/D	SAMPLE NO. SERIES	: 46068-46158

ACID TESTS

Depth	Dip	Azimuth
148.74	-45.0	117.0

SUMMARY LOG 90-33

From(m)	To(m)	Field Name(Legend)
0.00	1.38	CASING
1.38	33.94	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21)
33.94	50.19	ARGILLACEOUS MUDSTONE/interbedded SILTSTONE-SANDSTONE-WACKE (UNIT 12)
50.19	63.40	SANDSTONE and interbedded CONGLOMERATE (UNIT 14)
63.40	121.52	ARGILLACEOUS MUDSTONE with interbedded SANDSTONE + WACKE (UNIT 12)
121.52	130.52	SANDSTONE (UNIT 14)
130.52	134.09	ARGILLACEOUS MUDSTONE TO SILTSTONE (UNIT 12)
134.09	148.76	ALTERED VOLCANIC FRAGMENTAL (UNIT 11)
148.76		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-33

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	%Zn
67.63	71.30	3.67	0.013	0.59	0.78	0.62
79.90	82.76	2.86	0.012	0.35	0.64	0.42

From(m)	To(m)	Description
0.00	1.38	CASING
1.38	33.94	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21) Composition Fragments: 25 to 30%. Light greyish white to grey grading to blackish grey, silicified (cherty), tuffaceous(plagioclase porphyry), average 15 to 20mm in width. Plagioclase phenocrysts set in a fine grained pervasive k-feldspar rich groundmass(originally plagioclase rich). Matrix: Interstitial to the fragments, k-feldspar rich. Structure Bedding: 20 degrees to core axis. Well defined in patches by interbedded tuffaceous beds. Jointing: parallel to bedding. Alteration K-feldspar: Strong. Flooding of groundmass and fragments throughout(locally up to 60 to 65% secondary k-feldspar) interspersed with discrete green veins of sericite and chlorite(5 to 10%). Mineralization Pyrite: Trace. Rare finely disseminated euhedral specks. Veins and Sub-Intervals <1.38>-<16.50>: Zone of Oxidation. Consists of limonite and lesser kaolinite coating fracture surfaces and to a lesser extent in veins. <5.00>-<17.00>: Iron carbonate-siliceous Veining. Interval has been postdated by net veining of a hard(>4), dirty grey, fine to medium grey iron carbonate/siliceous assemblege enclosing angular brecciated volcanic fragments. <11.00>-<17.00>: Quartz Veining. Core axis angle 30 degrees. Cross cut unit, range from 0.5 to 8 to 10mmin width(average 6 to 8mm). <11.00>-<14.40>: FAULT ZONE. Upper contact and lower contact unclear, core badly broken, recovery of approximately 0.72cm. <15.55>-<16.07>: FAULT ZONE. Upper contact and lower contact uncleear, core badly broken, planar deformation has occurred at 25 degrees to core axis, quartz and calcite annealing. <26.50>-<33.94>: Quartz-stockwork Veining. Unit is cross cut by a milky quartz veins/stockwork assemblege oriented sub-parallel to 20 degrees to core axis. Quartz also occurs as tightly folded layers oriented at varied degrees to core axis.

From(m)	To(m)	Description
33.94	50.19	ARGILLACEOUS MUDSTONE/interbedded SILTSTONE-SANDSTONE-WACKE (UNIT 12) Composition Mudstone: 70%. Black, argillaceous, interbeds of well laminated silty layers. Sandstone: +Wackes are extensive from 2 to 3cm up to 80cm to 1 m. Generally poorly sorted with an abundance foliation light grey to black lithic and argillaceous fragments, quartz clasts set in a plagioclase rich matrix. Interbedding: 2 to 3%. Interbedded throughout the unit. Light grey, aphanitic, dirty, siliceous, oriented at 5 to 10 degrees to core axis. Pyrite: 3 to 4%. Syngenetic pyritic laminae from 0.5 to 2cm in width(average 5 to 6mm). Structure Upper contact: 50 degrees to core axis. Bedding: 50 to 60 degrees to core axis. From 33.94 to 35.97 metres. Bedding: 5 to 10 degrees to core axis. From 35.97 to 41.00 metres. Bedding: 40 degrees to core axis. From 41.00 to 50.19 metres. Jointing: parallel to bedding. Throughout. Mineralization Pyrite: 4 to 5%. As syngenetic laminae and as blebs and disseminations within wacke and sandstone beds.
50.19	63.40	SANDSTONE and interbedded CONGLOMERATE (UNIT 14) Composition Sandstone: 50 to 60%. Massive, light to medium grey, quartzose-feldspathic sandstone, medium grained and moderately to poorly sorted, angular to sub-angular grains with occasional quartz clasts and minor argillaceous fragments. Conglomerate: Clasts range from 5 to 7mm up to 7cm with an average of 3cm in width, sub-angular to sub-rounded. Consists of sericitized plagioclase phenocrysts, average 0.8 to 1.0mm in length, euhedral to subhedral, set in a strongly sericitized(green) to silicifed(pale grey to translucent) aphanitic groundmass. Structure Jointing: 30 to 40 degrees to core axis. Mineralization Pyrite: 1 to 2%. Mostly as blebs and disseminations within conglomerate units.

From(m) To(m) ----------Description----------

63.40 121.52 ARGILLACEOUS MUDSTONE with interbedded SANDSTONE + WACKE (UNIT 12)

Composition

Mudstone: 70 to 80%. Fine grained, argillaceous, mudstone grading to siltstone, well laminated at 25 degrees to core axis, gradational to sharp contact with sandstone and wackes.

Sandstone: Quartzose/feldspathic sandstone and wackes, range from 1 to 2cm to 1.5 m in width(average 30 to 40 cm), wacke units consist of a heterolithic assortment of light brown grey, argillaceous and quartzose, angular lithic fragments ranging from 3 to 4mm in length(average 1 to 2mm).

Structure

Upper contact: 40 degrees to core axis.

Jointing: 25 degrees to core axis. Parallel bedding throughout.

Veins and Sub-Intervals

Quartz-calcite Veining. Core axis angle 25 to 30 degrees. Post date unit, 0.3 to 1.5mm in width(average 1.0mm).

Quartz-argillite-breccia Veining. Core axis angle parallel to bedding. Range from 3mm to 5cm in width(average 15 to 20mm), frequency 1 every 3 metres.

<63.40>-<67.63>: Pyrite(trace to 0.5%). Mostly as disseminations and flattened and oriented blebs at 25 degrees to core axis, occasional veinlets.

<67.63>-<68.80>: Pyrite(8 to10%), galena(3 to 5%), sphalerite(2 to3%), chalcopyrite(2 to 3%). Galena, sphalerite and chalcopyrite mostly as selvedges within a quartz veins oriented sub-parallel to the core axis. Pyrite as selvedges within the quartz veins and as blebs and disseminations throughout.

<68.80>-<71.90>: Pyrite(5 to 10%), sphalerite(1 to 2%), galena(1 to 2%), chalcopyrite(trace). Similar to above however a decrease in veining. Pyrite more abundant as disseminations and blebs throughout.

<71.90>-<81.00>: Pyrite(2 to 3%). Mostly as disseminations, elongate blebs oriented roughly parallel to the bedding.

<81.00>-<82.76>: Pyrite(5 to 8%), galena(2 to 3%), sphalerite(2 to 3%), chalcopyrite(1 to 2%). Similar to 68.80 to 71.90 metres with sphalerite, chalcopyrite, and galena predominantly occuring in association with a calcite-quartz stockwork and veins array.

From(m)	To(m)	Description
		Chalcopyrite, sphalerite and galena also as blebs(+-calcite+-quartz).
		<82.76>-<121.52>: Pyrite(1 to 3%). Mostly as disseminations and occasional blebs, elongate blebs oriented parallel to the bedding at 25 degrees to core axis.
		<120.80>-<121.52>: FAULT ZONE. Gouged and graphitic throughout, core badly broken, upper contact unclear, lower contact at 20 degrees to core axis.
121.52	130.52	SANDSTONE (UNIT 13)
		Composition
		Sandstone: Light to medium grey, quartzose-feldspathic, medium grained and moderately to poorly sorted throughout.
		Structure
		Bedding: 10 to 20 degrees to core axis. Defined by alternating quartz and plagioclase rich layers.
		Jointing: parallel to bedding.
		Alteration
		Carbonitized: Moderate. Up to 5% of the core over several cm.
		Mineralization
		Pyrite: Trace. Rare disseminations.
		Veins
		Quartz Veining. Core axis angle parallel to bedding. semi-translucent to milky quartz, 0.3 to 8mm in width(average 3 to 4mm).
130.52	134.09	ARGILLACEOUS MUDSTONE TO SILTSTONE (UNIT 12)
		Composition
		Mudstone: Well bedded mudstone to siltstone with interbeds of light grey siliceous material at 20 degrees to core axis.
		Sandstone: Minor wacke and sandstone units interbedded throughout.
		Mineralization
		Pyrite: Trace. Rare disseminations and oriented blebs.
		Sub-Intervals
		<130.52>-<132.42>: FAULT ZONE. Core badly broken throughout, locally graphitic, upper contact and lower contact unclear however planar deformation appears to have occurred at 20 to 25 degrees to core axis.

From(m)	To(m)	Description
134.09	148.76	ALTERED VOLCANIC FRAGMENTAL (UNIT 11) Composition Lithology: Similar to 1.38 to 33.94 metres. Mineralization Pyrite: 3 to 4%. Mostly as euhedral blebs(average 0.4 to 0.5mm in width) and disseminations. Also occurring as clusters and blebs in a semi translucent pale grey to bluish by siliceous network occurring interstitial to the volcanic fragments. Veins Milky quartz Veining. Core axis angle 50 to 60 degrees. Unit cross cut by numerous milky quartz veins+chlorite, 0.5 to 31.0cm in width(average 4.0cm), frequency 2 to 3 per metre.
148.76		END OF HOLE.

Hole No.: 90-33

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	1.38	1.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46068	1.38	2.69	1.31	-	-	3	-	-	.6	5	1	140	.1	9110	5	30	1	139
46069	2.69	4.46	1.77	-	-	1	-	-	.6	5	35	108	.2	10450	4	26	1	124
46070	4.46	5.07	.61	-	-	4	-	-	1.2	5	30	69	.1	9360	4	26	1	87
46071	5.07	6.07	1.00	-	-	1	-	-	1.6	5	15	59	.1	12720	1	16	1	62
46072	6.07	7.07	1.00	-	-	2	-	-	2.0	5	1	20	.1	22590	1	11	1	50
46073	7.07	8.07	1.00	-	-	2	-	-	2.1	5	1	11	.1	26400	1	9	1	36
46074	8.07	9.07	1.00	-	-	4	-	-	2.0	3	1	13	.1	17830	1	4	1	29
46075	9.07	11.00	1.93	-	-	2	-	-	1.2	6	48	29	.1	19190	3	30	2	45
46076	11.00	14.40	3.40	-	-	2	-	-	1.3	6	46	84	.1	10220	5	41	1	75
46077	14.40	17.40	3.00	-	-	1	-	-	1.7	4	1	15	.1	12400	2	18	1	30
46078	17.40	18.65	1.25	-	-	2	-	-	1.1	5	42	60	.1	8990	4	22	1	64
46079	18.65	19.91	1.26	-	-	1	-	-	1.5	5	1	119	.1	8310	1	25	1	120
46080	19.91	22.91	3.00	-	-	2	-	-	.8	4	37	125	.1	8140	3	21	1	112
46081	22.91	24.69	1.78	-	-	6	-	-	1.3	4	27	104	.1	10720	2	30	1	97
46082	24.69	25.51	.82	-	-	2	-	-	.9	4	27	153	.1	9200	3	31	1	95
46083	25.51	27.51	2.00	-	-	8	-	-	1.4	5	7	104	.1	8840	3	19	1	122
46084	27.51	29.51	2.00	-	-	2	-	-	1.6	4	1	96	.1	8950	3	19	1	93
46085	29.51	31.51	2.00	-	-	1	-	-	1.0	5	1	156	.1	6870	4	29	1	101
46086	31.51	33.94	2.43	-	-	2	-	-	1.2	4	6	135	.1	7790	2	17	1	97
46087	33.94	35.18	1.24	-	-	2	-	-	1.4	16	6	147	.1	26150	4	46	1	65
46088	35.18	36.18	1.00	-	-	2	-	-	.6	18	32	122	.1	20170	9	34	3	133
46089	36.18	37.18	1.00	-	-	5	-	-	.9	18	50	132	.3	27920	8	23	3	159
46090	37.18	39.18	2.00	-	-	3	-	-	1.4	12	1	104	.1	30590	7	12	1	82
46091	39.18	41.18	2.00	-	-	3	-	-	1.1	18	26	82	.1	28730	14	30	8	143
46092	41.18	42.18	1.00	-	-	4	-	-	.8	19	29	102	.1	32590	11	23	10	126
46093	42.18	43.18	1.00	-	-	2	-	-	1.1	30	40	85	.1	31180	23	23	18	156
46094	43.18	46.18	3.00	-	-	8	-	-	1.2	18	18	81	.1	27430	13	25	8	156
46095	46.18	49.18	3.00	-	-	7	-	-	.2	4	8	96	.1	35160	1	20	1	65
46096	49.18	50.81	1.63	-	-	6	-	-	.2	3	1	132	.1	28790	4	8	1	54
46097	50.81	51.25	.44	-	-	24	-	-	.5	4	14	253	.1	38540	2	18	1	70
46098	51.25	54.25	3.00	-	-	14	-	-	.4	5	1	92	.1	37480	1	20	1	72
46099	54.25	57.25	3.00	-	-	16	-	-	.4	4	1	110	.1	46020	1	12	1	96
46100	57.25	60.25	3.00	-	-	16	-	-	.6	5	1	148	.1	36870	1	11	1	71
46101	60.25	63.25	3.00	-	-	9	-	-	.3	5	1	120	.1	34160	2	15	1	79
46102	63.25	66.25	3.00	-	-	69	-	-	2.4	38	1	544	.1	37590	2	42	1	52
46103	66.25	67.63	1.38	-	-	109	-	-	3.0	27	1	201	.1	38410	1	74	2	79
46104	67.63	68.13	.50	-	-	620	-	-	59.4	4190	68	63	131.0	68300	5	17100	39	20265
46105	68.13	68.80	.67	-	-	542	-	-	40.2	2523	55	42	60.1	60560	2	25837	49	10679
46106	68.80	69.30	.50	-	-	179	-	-	5.4	251	34	143	2.6	32970	1	888	6	592
46107	69.30	69.80	.50	-	-	170	-	-	5.0	163	37	151	1.0	27950	1	1108	6	508
46108	69.80	70.30	.50	-	-	930	-	-	13.1	1502	40	153	37.6	43060	2	2287	10	5301
46109	70.30	70.80	.50	-	-	322	-	-	6.5	576	66	180	9.5	33350	1	745	4	1315
46110	70.80	71.30	.50	-	-	308	-	-	5.1	406	47	144	25.2	31710	2	841	4	3172
46111	71.30	71.90	.60	-	-	75	-	-	4.2	78	21	158	.1	35610	1	114	3	144
46112	71.90	73.90	2.00	-	-	49	-	-	3.3	72	2	133	.1	38770	1	81	1	192
46113	73.90	75.90	2.00	-	-	59	-	-	4.5	41	1	106	.1	41060	2	45	5	64
46114	75.90	77.90	2.00	-	-	65	-	-	4.0	30	1	111	.1	36270	3	59	3	31
46115	77.90	79.90	2.00	-	-	76	-	-	3.5	35	29	126	.1	38580	2	69	5	61
46116	79.90	81.00	1.10	-	-	370	-	-	4.3	58	63	150	.1	37470	1	100	4	127

Hole No.: 90-33

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
46117	81.00	81.69	.69	-	-	311	-	-	22.8	835	42	90	55.5	50960	2	17047	30	7895
46118	81.69	82.19	.50	-	-	358	-	-	9.2	603	17	93	16.3	30650	3	4867	9	3361
46119	82.19	82.76	.57	-	-	680	-	-	16.2	1470	17	107	42.0	44240	3	7006	14	8085
46120	82.76	84.32	1.56	-	-	154	-	-	5.1	108	48	251	.1	39980	2	281	5	349
46121	84.32	86.73	2.41	-	-	93	-	-	4.2	94	18	131	.1	38400	2	261	6	285
46122	86.73	88.73	2.00	-	-	69	-	-	3.7	52	1	118	.1	39100	1	63	3	71
46123	88.73	90.73	2.00	-	-	64	-	-	4.2	57	25	125	.1	38840	3	59	4	83
46124	90.73	92.00	1.27	-	-	65	-	-	4.1	42	22	105	.1	38230	3	55	3	67
46125	92.00	92.51	.51	-	-	84	-	-	5.1	265	34	115	8.1	38080	4	962	10	1549
46141	92.51	93.78	1.27	-	-	76	-	-	4.2	51	18	133	.1	36130	2	131	9	101
46126	93.78	94.36	.58	-	-	87	-	-	3.7	75	42	96	.1	37220	1	68	4	133
46127	94.36	95.45	1.09	-	-	43	-	-	2.9	38	1	94	.1	34610	1	70	3	197
46128	95.45	97.43	1.98	-	-	80	-	-	3.6	32	1	195	.1	41170	1	53	4	63
46129	97.43	98.61	1.18	-	-	57	-	-	1.8	47	1	105	.1	33760	1	37	3	86
46130	98.61	99.80	1.19	-	-	194	-	-	1.7	62	71	93	.2	38490	2	43	2	166
46131	99.80	101.80	2.00	-	-	83	-	-	2.9	32	12	103	.1	45150	1	51	3	52
46132	101.80	103.80	2.00	-	-	76	-	-	2.5	31	1	81	.1	36590	2	45	3	42
46133	103.80	105.80	2.00	-	-	48	-	-	2.7	46	2	75	.1	34800	2	40	2	71
46134	105.80	107.80	2.00	-	-	75	-	-	3.3	33	59	79	.1	35780	2	61	4	63
46135	107.80	110.00	2.20	-	-	49	-	-	2.3	31	1	82	.1	31830	1	44	3	72
46136	110.00	110.72	.72	-	-	37	-	-	3.2	52	1	62	.1	31610	1	38	4	116
46137	110.72	111.23	.51	-	-	42	-	-	2.2	29	26	116	.1	32100	2	38	4	60
46138	111.23	112.36	1.13	-	-	24	-	-	1.8	30	1	92	.1	38060	4	28	1	57
46139	112.36	114.00	1.64	-	-	65	-	-	2.9	26	5	105	.1	40360	2	40	4	54
46140	114.00	114.93	.93	-	-	83	-	-	3.4	45	17	107	.1	41450	2	49	8	103
46142	114.93	117.00	2.07	-	-	92	-	-	2.8	30	38	130	.1	36320	3	43	7	61
46143	117.00	120.00	3.00	-	-	85	-	-	2.7	30	36	115	.1	38300	3	46	5	67
46144	120.00	121.52	1.52	-	-	102	-	-	2.9	23	1	110	.1	42530	2	40	2	59
46145	121.52	124.52	3.00	-	-	58	-	-	2.6	11	27	86	.1	31260	2	29	2	51
46146	124.52	127.52	3.00	-	-	44	-	-	2.4	11	1	68	.1	46340	1	13	1	62
46147	127.52	130.52	3.00	-	-	47	-	-	3.2	9	1	89	.1	39780	1	15	1	44
46148	130.52	132.79	2.27	-	-	56	-	-	2.2	10	14	131	.1	28790	3	31	1	35
46149	132.79	134.09	1.30	-	-	65	-	-	3.4	14	34	127	.1	39420	2	29	2	72
46150	134.09	134.59	.50	-	-	203	-	-	1.5	19	454	127	5.5	28430	1	144	3	74
46151	134.59	134.90	.31	-	-	19	-	-	2.5	6	113	50	.4	10780	4	40	2	12
46152	134.90	136.90	2.00	-	-	154	-	-	2.1	50	571	150	8.0	31430	1	86	4	131
46153	136.90	138.90	2.00	-	-	143	-	-	2.2	31	698	143	9.7	31430	1	37	5	46
46154	138.90	140.90	2.00	-	-	225	-	-	3.4	65	457	174	9.5	34730	1	715	4	206
46155	140.90	142.90	2.00	-	-	240	-	-	1.8	22	298	139	3.8	28210	1	62	1	46
46156	142.90	144.90	2.00	-	-	109	-	-	.9	11	132	158	.8	26030	1	51	1	47
46157	144.90	146.90	2.00	-	-	138	-	-	.9	13	121	128	.1	35040	2	26	1	57
46158	146.90	148.76	1.86	-	-	63	-	-	1.5	6	1	144	.1	30060	2	18	1	31

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: M. REBAGLIATI/R. HASLINGER

MIN-EN LABS — ICP REPORT

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

90-33

FILE NO: 0S-0700-RJ1+2
DATE: 90/10/24
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
46068	.6	11110	1	13	140	2.9	2	3470	.1	2	5	9110	3360	11	10200	182	5	90	2	20	30	1	1	1	1	3.3	139	1	1	24	3
46069	.6	9510	35	8	108	1.7	2	1650	.2	2	5	10450	2490	7	8210	480	4	290	1	20	26	1	1	1	1	3.3	124	2	1	38	1
46070	1.2	4560	30	5	69	1.9	2	17030	.1	2	5	9360	2190	1	12200	522	4	190	1	50	26	1	1	1	1	3.7	87	1	1	51	4
46071	1.6	6420	15	3	59	1.0	1	29590	.1	3	5	12720	1280	5	25520	1122	1	240	3	10	16	1	13	1	1	6.5	62	1	1	63	1
46072	2.0	3990	1	2	20	.6	1	35000	.1	4	5	22590	590	4	33590	1466	1	290	1	10	11	1	4	1	1	9.5	50	1	1	58	2
46073	2.1	1330	1	1	11	.4	1	40100	.1	4	5	26400	240	1	36610	1675	1	330	1	10	9	1	1	1	1	7.9	36	1	1	66	2
46074	2.0	2070	1	1	13	.5	1	39660	.1	3	3	17830	380	1	37720	1644	1	260	1	10	4	1	1	1	1	7.5	29	1	1	55	4
46075	1.2	2520	48	1	29	.5	1	19390	.1	3	6	19190	790	1	15010	578	3	970	1	20	30	2	1	1	1	5.2	45	1	1	68	2
46076	1.3	5130	46	1	84	1.4	2	18280	.1	3	6	10220	2250	1	12730	625	5	210	3	10	41	1	7	1	1	4.5	75	1	1	51	2
46077	1.7	1690	1	1	15	.5	1	27880	.1	2	4	12400	290	1	23060	931	2	400	1	10	18	1	7	1	1	5.4	30	1	1	77	1
46078	1.1	6890	42	1	60	1.1	1	13920	.1	2	5	8990	2040	5	13700	342	4	280	1	10	22	1	1	1	1	4.1	64	1	2	87	2
46079	1.5	10890	1	1	119	2.9	1	21560	.1	2	5	8310	4570	6	20850	443	1	80	1	10	25	1	11	1	1	3.9	120	1	1	39	1
46080	.8	15480	37	1	125	2.9	1	7760	.1	2	4	8140	4390	15	16910	137	3	70	1	10	21	1	2	1	1	2.6	112	3	1	34	2
46081	1.3	13630	27	1	104	2.0	1	13260	.1	2	4	10720	3730	14	18880	225	2	70	1	10	30	1	5	1	1	3.6	97	2	1	53	6
46082	.9	15250	27	1	153	3.2	2	6660	.1	2	4	9200	4760	15	13970	79	3	70	1	10	31	1	9	1	1	2.4	95	4	1	29	2
46083	1.4	11340	7	1	104	2.7	1	19370	.1	2	5	8840	3660	10	21670	304	3	60	1	10	19	1	9	1	1	4.0	122	1	1	25	8
46084	1.6	9420	1	1	96	2.3	1	24040	.1	2	4	8950	3350	7	24310	461	3	80	1	10	19	1	13	1	1	4.4	93	1	1	21	2
46085	1.0	12430	1	1	156	2.8	1	13410	.1	1	5	6870	4960	6	13680	222	4	100	1	10	29	1	5	1	1	3.0	101	2	1	28	1
46086	1.2	11650	6	1	135	2.3	1	15320	.1	1	4	7790	4560	5	14070	311	2	100	1	10	17	1	5	1	1	2.9	97	3	1	25	2
46087	1.4	11950	6	1	147	1.9	2	18420	.1	8	16	26150	3830	8	17430	378	4	1190	1	280	46	1	2	1	1	12.0	65	1	4	1	7	2
46088	.6	9490	32	1	122	1.9	1	8660	.1	6	18	20170	3050	5	8850	192	9	710	11	290	34	3	1	1	1	9.9	133	1	1	1	1	2
46089	.9	11610	50	1	132	1.6	1	12760	.3	9	18	27920	3130	8	12580	278	8	70	6	670	23	3	2	1	1	12.8	159	1	1	1	1	5
46090	1.4	13570	1	1	104	1.2	1	23450	.1	8	12	30590	2960	12	22710	408	7	70	1	880	12	1	5	1	1	16.1	82	1	1	1	1	3
46091	1.1	8050	26	1	82	1.4	2	17560	.1	8	18	28730	2980	5	13740	363	14	70	5	1270	30	8	7	1	1	11.7	143	1	1	1	1	3
46092	.8	6120	29	1	102	.8	2	16540	.1	9	19	32590	3450	1	12420	321	11	80	9	1270	23	10	5	1	1	11.0	126	1	1	1	1	4
46093	1.1	5270	40	1	85	1.0	1	17080	.1	10	30	31180	3050	1	12290	399	23	70	25	490	23	18	4	1	1	14.4	156	1	1	1	1	2
46094	1.2	5960	18	1	81	.9	1	19670	.1	7	18	27430	3060	1	16090	534	13	780	9	360	25	8	5	1	1	9.9	156	1	1	1	6	8
46095	.2	18380	8	1	96	1.4	1	3030	.1	11	4	35160	2960	15	10630	195	1	80	1	240	20	1	2	1	1	21.1	65	1	1	1	1	7
46096	.2	16860	1	1	132	1.1	1	2320	.1	9	3	28790	3430	9	6820	132	4	120	1	350	8	1	2	1	1	24.9	54	1	1	1	1	6
46097	.5	17990	14	1	253	.5	1	8890	.1	10	4	38540	2440	10	9300	280	2	200	1	770	18	1	5	1	1	47.2	70	1	1	1	9	24
46098	.4	18340	1	14	92	.5	1	9070	.1	11	5	37480	2630	10	8220	392	1	200	1	690	20	1	6	1	1	57.6	72	3	1	1	1	14
46099	.4	21610	1	12	110	.7	1	7230	.1	14	4	46020	2700	12	7160	324	1	120	1	350	12	1	9	1	1	87.4	96	2	1	1	1	16
46100	.6	17230	1	8	148	.6	1	12920	.1	10	5	36870	2540	7	7230	584	1	170	1	750	11	1	13	1	1	51.4	71	2	1	1	4	16
46101	.3	17210	1	7	120	.3	2	5400	.1	11	5	34160	2840	8	7020	365	2	80	1	400	15	1	3	1	1	24.4	79	1	1	1	1	9
46102	2.4	11230	1	6	544	.7	1	19630	.1	13	38	37590	2570	5	12170	1204	2	670	1	800	42	1	2	1	1	25.4	52	1	1	1	1	69
46103	3.0	14020	1	6	201	.5	1	13240	.1	13	27	38410	3430	6	9410	689	1	680	1	790	74	2	1	1	1	27.4	79	1	1	1	1	109
46104	59.4	5990	68	10	63	.1	1	10080	131.0	13	4190	68300	2230	1	3100	420	5	110	1	660	17100	39	8	1	1	11.5	20265	1	6	1	1	620
46105	40.2	4920	55	9	42	.1	1	7370	60.1	12	2523	60560	2730	1	1930	273	2	880	1	530	25837	49	6	1	1	13.4	10679	1	1	1	1	542
46106	5.4	3870	34	6	143	.4	1	14880	2.6	11	251	32970	2140	1	4040	582	1	170	1	750	888	6	17	1	1	13.4	592	1	1	1	3	179
46107	5.0	4520	37	4	151	.5	1	10140	1.0	9	163	27950	2380	1	1280	333	1	180	1	620	1108	6	12	1	1	12.5	508	1	1	1	11	170
46108	13.1	5510	40	5	153	.2	1	13840	37.6	13	1502	43060	2440	1	2100	567	2	150	1	820	2287	10	18	1	1	16.4	5301	1	1	1	10	930
46109	6.5	6610	66	5	180	.4	1	11640	9.5	15	576	33350	2890	1	3360	473	1	730	6	1090	745	4	8	1	1	23.6	1315	1	1	1	10	322
46110	5.1	8230	47	5	144	.6	1	7210	25.2	14	406	31710	3120	2	3040	240	2	840	4	990	841	4	5	1	1	23.3	3172	1	1	1	8	308
46111	4.2	8710	21	4	158	.1	1	22900	.1	11	78	35610	3240	1	11720	1511	1	800	1	790	114	3	5	1	1	22.9	144	1	1	1	4	75
46112	3.3	15930	2	5	133	.7	1	15010	.1	12	72	38770	3460	6	10730	821	1	1400	1	770	81	1	2	1	1	28.7	192	2	1	1	1	49
46113	4.5	9860	1	4	106	.8	1	24990	.1	12	41	41060	2950	3	15390	1748	2	840	1	810	45	5	2	1	1	21.9	64	1	1	1	1	59
46114	4.0	11790	1	3	111	.7	2	13360	.1	12	30	36270	3380	4	8770	623	3	1000	2	760	59	3	1	1	1	20.2	31	1	1	1	1	65
46115	3.5	9970	29	3	126	.8	1	24170	.1	12	35	38580	3520	3	13540	1512	2	780	3	760	69	5	6	1	1	22.6	61	1	1	1	1	76
46116	4.3	11950	63	4	150	.7	1	7480	.1	14	58	37470	3850	4	5370	323	1	700	2	870	100	4	2	1	1	21.7	127	1	1	1	1	370
46117	22.8	9770	42	5	90	.4	1	8740	55.5	16	835	50960	3650	1	4750	382	2	120	1	830	17047	30	4	1	1	22.2	7895	1	1	1	1	311
46118	9.2	6050	17	3	93	.3	1	12180	16.3	9	603	30650	2130	2	4310	488	3	180	1	560	4867	9	9	1	1	13.5	3361	1	1	1	21	358
46119	16.2	6320	17	5	107	.1	1	16260	42.0	17	1470	44240	2490	1	4200	717	3	140	2	1280	7006	14	17	1	1	19.2	8085	1	1	1	6	680
46120	5.1	5400	48	4	251	.2	1	20310	.1	12	108	39980	2830	1	9920	1357	2	160	1	1010	281	5	5	1	1	19.1	349	1	1	1	7	154
46121	4.2	10660	18	4	131	.8	1	7550	.1	13	94	38400	3220	5	6400	409	2	1100	1	820	261	6	3	1	1	21.5	285	1	1	1	1	93
46122	3.7	10320	1	4	118	.6	1	17940	.1	12	52	39100	2600	4	11010	1165	1	90	1	820	63	3	1	1	1	22.4	71	1	2	1	1	69
46123	4.2	10280	25	4	125	.7	1	16580	.1	13	57	38840	2850	4	10370	1000	3	930	3	820	59	4	1	1	1	19.8	83	1	1	1	1	64
46124	4.1	7440	22	3	105	.8	1	21070	.1	13	42	38230	2830	1	11810	1478	3	100	1	780	55	3	2	1	1	18.6	67	2	1	1	1	65
46125	5.1	5820	34	3	115	.5	1	6160	8.1	12	265	38080	3080	1	3350	256	4	90	1	750	962	10	3	1	1	12.5	1549	1	1	1	1	84
46126	3.7	9860	42	2	96	.6	1	14530	.1	13	75	37220	2740	3	9170	736	1	80	1	830	68	4	5	1	1	18.6	133	1	1	1	1	87
46127	2.9	12590	1	3	94	.9	2	13320	.1	12	38	34610	2590	6	10140	802	1	70	1	880	70	3	1	1	1	20.0	197	1	1	1	1	43

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: M. REBAGLIATI/R. HASLINGER

MIN-EN LABS — ICP REPORT

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

90-33

FILE NO: 0S-0700-RJ3+4
DATE: 90/10/24
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
46128	3.6	9670	1	10	195	.4	1	21330	.1	12	32	41170	2020	6	14090	1335	1	60	3	930	53	4	1	1	1	20.3	63	1	2	1	1	80
46129	1.8	10450	1	7	105	.6	2	8520	.1	13	47	33760	2840	8	7930	461	1	70	3	780	37	3	2	1	1	17.9	86	1	1	1	1	57
46130	1.7	7040	71	6	93	.8	1	13820	.2	12	62	38490	2770	5	10050	713	2	80	1	760	43	2	7	1	1	17.1	166	1	1	1	1	194
46131	2.9	9820	12	5	103	.3	1	24300	.1	13	32	45150	2700	7	17800	1535	1	80	1	780	51	3	3	1	1	23.0	52	1	1	1	1	83
46132	2.5	11380	1	4	81	.6	1	18090	.1	12	31	36590	2530	7	12140	1061	2	80	1	760	45	3	1	1	1	20.9	42	1	1	1	1	76
46133	2.7	10820	2	3	75	.7	1	26290	.1	11	46	34800	2650	6	17190	1762	2	90	4	770	40	2	12	1	1	20.7	71	1	1	1	1	48
46134	3.3	10350	59	3	79	.4	1	18580	.1	12	33	35780	2530	5	11950	1119	2	80	2	790	61	4	3	1	1	18.6	63	1	1	1	1	75
46135	2.3	11810	1	2	82	.5	2	13940	.1	11	31	31830	2560	7	10370	814	1	70	1	760	44	3	2	1	1	18.7	72	1	2	1	1	49
46136	3.2	7200	1	1	62	.5	1	46610	.1	8	52	31610	1770	3	25870	3363	1	70	1	550	38	4	53	1	1	17.1	116	1	1	1	2	37
46137	2.2	14780	26	2	116	.4	1	4380	.1	12	29	32100	3290	8	7480	247	2	70	1	660	38	4	3	1	1	19.3	60	1	1	1	1	42
46138	1.8	15500	1	2	92	.6	1	21910	.1	12	30	38060	2710	11	14250	1314	4	180	1	1830	28	1	17	1	1	26.1	57	1	1	1	1	24
46139	2.9	14360	5	2	105	.5	1	13750	.1	12	26	40360	2660	9	12170	895	2	70	1	780	40	4	2	1	1	23.2	54	1	2	1	1	65
46140	3.4	13020	17	2	107	.8	2	20200	.1	12	45	41450	2720	8	15210	1253	2	90	1	890	49	8	4	1	1	23.2	103	1	1	1	1	83
46141	4.2	6280	18	1	133	.4	1	19800	.1	11	51	36130	3180	1	10070	1151	2	90	1	710	131	9	7	1	1	16.1	101	1	1	1	1	76
46142	2.8	12750	38	1	130	.6	2	11620	.1	12	30	36320	2720	7	8390	492	3	80	2	880	43	7	3	1	1	20.7	61	1	1	1	1	92
46143	2.7	14230	36	1	115	.6	1	13960	.1	11	30	38300	2570	10	9950	548	3	90	1	850	46	5	7	1	1	24.3	67	1	1	1	1	85
46144	2.9	15000	1	1	110	.6	3	24720	.1	11	23	42530	2640	11	21920	1626	2	80	1	930	40	2	6	1	1	26.5	59	1	1	1	1	102
46145	2.6	12760	27	1	86	.4	2	39510	.1	10	11	31260	2410	8	16060	1692	2	80	1	720	29	2	23	1	1	33.7	51	1	1	1	1	58
46146	2.4	21790	1	1	68	.1	3	47330	.1	14	11	46340	1900	15	17100	1732	1	70	1	970	13	1	45	1	1	87.2	62	2	1	1	1	44
46147	3.2	17710	1	1	89	.3	2	23570	.1	12	9	39780	2170	13	25540	1731	1	90	1	900	15	1	7	1	1	45.2	44	1	3	1	1	47
46148	2.2	12720	14	1	131	.7	2	14750	.1	10	10	28790	3030	7	13090	1027	3	40	1	450	31	1	2	1	1	18.8	35	1	1	1	1	56
46149	3.4	15640	34	1	127	.5	1	15900	.1	16	14	39420	2840	9	10560	737	2	90	1	870	29	2	28	1	1	28.8	72	1	1	1	1	65
46150	1.5	6990	454	1	127	.2	1	5760	5.5	9	19	28430	3530	1	2380	128	1	70	1	1460	144	3	6	1	1	13.6	74	1	1	1	4	203
46151	2.5	2830	113	1	50	.1	4	62730	.4	3	6	10780	1280	1	2280	2841	4	90	6	360	40	2	436	1	2	9.2	12	1	1	4	68	19
46152	2.1	6880	571	1	150	.1	1	10280	8.0	12	50	31430	3670	1	1530	174	1	120	1	1580	86	4	22	1	1	15.1	131	1	1	1	6	154
46153	2.2	8250	698	1	143	.3	1	19740	9.7	13	31	31430	3530	2	2750	568	1	130	1	1670	37	5	86	1	1	19.0	46	1	1	1	14	143
46154	3.4	8870	457	1	174	.1	2	7000	9.5	13	65	34730	3380	3	2830	127	1	110	1	1820	715	4	13	1	1	19.2	206	1	1	1	9	225
46155	1.8	8830	298	1	139	.1	3	11320	3.8	11	22	28210	2940	4	3430	239	1	150	1	1740	62	1	32	1	1	20.3	46	1	1	1	20	240
46156	.9	9500	132	1	158	.3	1	6750	.8	10	11	26030	3680	3	3200	125	1	170	1	1740	51	1	13	1	1	19.2	47	1	1	1	13	109
46157	.9	13570	121	1	128	.4	2	9820	.1	12	13	35040	3000	9	7420	246	2	100	1	1600	26	1	32	1	1	28.2	57	1	1	1	7	138
46158	1.5	15690	1	9	144	.3	1	16820	.1	10	6	30060	3780	10	16970	1097	2	60	3	1510	18	1	8	1	1	23.3	31	1	1	1	6	63

MIN
• EN
LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

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90-33

Assay Certificate

OS-0700-RA1

Company: COASTAL MOUNTAIN ENGINEERING
Project: SIB
Attn: M.REBAGLIATI\R. HASLINGER

Date: OCT-30-90
Copy 1.-COASTAL MOUNTAIN, VANCOUVER, B.C.
2. R. HASLINGER, VANCOUVER, B.C.

We hereby certify the following Assay of 8 CORE samples submitted OCT-28-90 by GUY LEPAGE.

Sample Number	AG g/tonne	AG oz/ton
46104	58.8	1.72
46105	39.9	1.16
46106	7.8	.23
46107	5.4	.16
46108	12.8	.37
46117	22.6	.66
46118	8.8	.26
46119	16.2	.47

Certified by

MIN-EN LABORATORIES

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-34

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 1048 9/10	CLAIM #	: SIB 12		
LOCAL GRID	: 8697.93 N / 9882.14 E	GLOBAL GRID	: 13024.38 N / 17833.79 E	ELEVATION	: 1023.20 metres
LENGTH	: 185.32 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 117.0 degrees
OVERBURDEN	: 2.98 m	CASING	: 2.98 metres depth, casing left in hole.		
LOGGED BY	: Guy LePage	DRILLED BY	: J.T. Thomas	ASSAYING BY	: Min-En Labs
DATE LOGGED	: 1990/10/07 Y/M/D	DATE DRILLED	: 1990/10/05 Y/M/D	CORE LOCATION	: 101+00 N, 98+00
				SAMPLE NO. SERIES	: 46159-46274

ACID TESTS

Depth	Dip	Azimuth
182.27	-47.0	117.0

SUMMARY LOG 90-34

From(m)	To(m)	Field Name (Legend)
0.00	2.98	CASING
2.98	16.10	ARGILLACEOUS MUDSTONE (UNIT 22)
16.10	99.27	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21)
99.27	131.70	ARGILLACEOUS MUDSTONE-SILTSTONE (UNIT 12)
131.70	144.86	SANDSTONE + WACKE (UNIT 14)
144.86	151.97	CONGLOMERATE (UNIT 13)
151.97	155.86	ARGILLACEOUS MUDSTONE (UNIT 12)
155.86	159.70	LAPILLI FRAGMENTAL (UNIT 11)
159.70	160.23	ARGILLACEOUS MUDSTONE (UNIT 12)
160.23	183.32	POTASSIC FLOODED LAPILLI FRAGMENTAL (UNIT 11)
183.32		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-34

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
4.00	8.53	4.53	0.103	1.06		0.17
2.98	14.63	11.65	0.068	0.75		0.14
153.83	172.96	19.13	0.020			

From(m)	To(m)	Description
0.00	2.98	CASING
2.98	16.10	ARGILLACEOUS MUDSTONE (UNIT 22) Composition Mudstone: Fine grained, black, finely laminated. Structure Bedding: 30 to 35 degrees to core axis. Jointing: parallel to bedding. Lower contact: Gradational to the upper contact with the volcanic sequence. Mineralization Pyrite: 3 to 4%. Discrete selvedges within the quartz-pyrite-calcite stockwork and veins array. Chalcopyrite: Trace. Asssociated with pyrite in the stockwork. Unknown: A fine grained grey mineral has intruded on the margins of the stockwork forming veins 2mm to 7cm in width(average 2 to 3cm). Veins Quartz-calcite Veining. Core axis angle variable. Hairline vein/stockwork array postdates the quartz-pyrite-calcite stockwork. Quartz-pyrite-calcite Veining. Stockwork throughout.
16.10	99.27	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21) Composition Lithology: See Veins and Sub-Intervals. Structure Jointing: parallel to bedding. Bedding: 20 to 25 degrees to core axis. At 80.00 metres the bedding changes to 60 degrees to core axis. Alteration Potassic: Occasional overprints as a stockwork, extensive over 4 to 5cm. K-feldspar: From 79.14 metres to lower contact heterolithic tuff unit is overprinted with k-feldspar stockwork which comprises 20 to 30% of the interval. Clasts also show intense k-feldspar alteration. Mineralization Pyrite: Trace. From 16.10 to 33.50 metres, pyrite as fine grained disseminations, blebs(+-calcite) and occasional veins at 30 to 60 degrees to core axis(0.5 to 2.0mm in width, average 1.0mm).

From(m) To(m) ----------Description----------

Pyrite: 3 to 4%. From 33.50 to 36.36 metres, pyrite as blebs, disseminations and in tightly folded veins oriented sub-parallel to degrees to core axis and at 50 degrees to core axis(less common), 0.5 to 10mm in width(average 7 to 8mm).

Pyrite: Trace. From 36.36 to 99.27 metres, pyrite mostly as gine disseminations with a slight increase in blebs towards the lower contact.

Veins and Sub-Intervals

<16.10>-<60.50>: Sericite Veining. Core axis angle 30 degrees. Layers and veins interstitial to the fragments.

<16.10>-<60.50>: Fragmental phase. 30 to 35% siliceous-sericite altered volcanic fragments(cherty), angular to (cherty), angular to sub-angular, 1mm to 6 cm in width(average 20 to 25mm),dark grey to grey to off white colour. Interstitial to fragments is a pale green to cream green sericite-siliceous veins stockwork array(60 to 65% of interval).

<20.95>-<22.14>: FAULT ZONE. Locally gouged throughout and oriented sub-parallel to degrees to core axis.

<31.38>-<31.67>: Quartz-iron carbonate-stockwork Veining. Core axis angle 20 to 30 degrees. Mily quartz, up to 70 to 80% over severl cm's.

<42.00>-<45.70>: Quartz-iron carbonate-stockwork Veining. Core axis angle 20 to 30 degrees. Same as above.

<49.33>-<49.88>: FAULT ZONE. Upper contact at 30 degrees to core axis., Lower contact unclear. Gouged throughout.

<60.50>-<72.54>: Unit is interbedded with minor sandstone-wacke horizons containing angular dark black argillaceous fragments, average 3 to 4cm wide. Sandstone-wacke beds are medium to coarse grained poorly sorted quartzose to felsic angular grained from 0.1 to 3mm wide. Towards 72.54 m fragmental is interbedded with siliceous light grey to pale green tuffaceous beds at 25 degrees to core axis.

<72.54>-<79.44>: Clasts show more of a siliceous to albite pale green pervasive alteration with the outline of discrete plagioclase phenocrysts still visible. Much less intense sericitization over the interval.

<79.44>-<99.27>: Unit is overprinted by a green to pink grading to light grey k-feldspar stockwork which comprises 20 to 30% of the interval. Clasts show intense k-feldspar alteration. Interstitial to the volcanic fragments is a dark green sericite and quartz array.

From(m)	To(m)	Description
99.27	131.70	ARGILLACEOUS MUDSTONE-SILTSTONE (UNIT 12) Composition Mudstone: Black, argillaceous, well laiminated at 50 to 60 degrees to core axis with interbedded siltstone layers, average 1 to 2mm in width. Towards the lower contact there is an increase in overall carbonate content(from 1 to 2% to 4 to 5%). Structure Jointing: 50 to 60 degrees to core axis. Parallel to bedding. Bedding: 50 to 60 degrees to core axis. Alteration Sericite: Strong. Unit is sericite-iron carbonate altered from 103.07 to 103.73 metres. Mineralization Pyrite: Trace to 1%. Mostly as blebs and in veins(+calcite) oriented roughly parallel to the bedding. Veins and Sub-Intervals Quartz-calcite Veining. Core axis angle parallel to bedding. 1 to 15mm with an average 2.5 to 3.0mm in width, frequency 2 to 3 per metre. Calcite Veining. Core axis angle 5 to 60 degrees. (+- argillite breccia). Cross the unit at 5 to 10 degrees to core axis and more commonly 50 to 60 degrees to core axis. <120.92>-<127.41>: Interbedded with serizitized conglomerate fragments, average 50 to 60mm in width.
131.70	144.86	SANDSTONE + WACKE (UNIT 14) Composition Sandstone: Quartzose to feldspathic, light to medium grey grading to pale greenish grey, poorly sorted, medium to fine grained. Clasts are sub-rounded to sub-angular with a oriented of their long axis at 60 to 70 degrees to core axis to 50 degrees to core axis towards the lower contact. Graded bedding indicates uphole facing. Structure Jointing: parallel to bedding. Bedding: 60 to 70 degrees to core axis. Grading to 50 degrees to core axis towards the lower contact.

From(m) To(m) ----------Description----------

Mineralization
Pyrite: 3 to 4%. Coarse blebs and clusters in ciscrete veins oriented parallel to the bedding and in low angle calcite+-quartz veins as selvedges.
Sphalerite: 2 to 3%. From 133.50 to 133.95 metres, as a coarse bleb(3 cm in width) within a milky quartz veins oriented at 60 degrees to core axis. This represents a zone of intense quartz/calcite stockwork and brecciation(annealed).
Veins and Sub-Intervals
Quartz-calcite Veining. Core axis angle 5 to 10 degrees. (+-Pyrite).
Quartz Veining. Core axis angle 50 to 60 degrees. 1.0 to 8mm in width(average 2 to 3mm), frequency 2 to 3 per metre.
<141.75>-<142.05>: FAULT ZONE. Strongly gouged and sericite altered throughout with upper contact and lower contact at 45 degrees to core axis.
<146.00>-<146.58>: FAULT ZONE. Upper contact unclear, lower contact at 45 degrees to core axis, core is badly broken with strong sericite alteration and 30 to 40% gouge.

144.86 151.97 CONGLOMERATE (UNIT 13)
Composition
Clasts: 30 to 40%. Well rounded to sub-rounded, coarse, plagioclase porphyry clasts, average 3.5 to 4.0cm in width.
Groundmass: Fine grained, siliceous to argillaceous.
Structure
Bedding: 45 to 50 degrees to core axis.
Jointing: parallel to bedding.
Alteration
Sericitic-siliceous: Strong. Clasts show a variable alteration from pale green siliceous sericitic to a deep green sericitic.
Mineralization
Pyrite: 3 to 4%. Disseminations and blebs mostly interstitial to the clasts. Also as disseminations associated with the clasts.
Sub-Intervals
<148.00>-<151.97>: Unit is strongly altered by a pale to cream green pervasive assemblege(80 to90%), soft and maleable.

From(m)	To(m)	Description
151.97	155.86	ARGILLACEOUS MUDSTONE (UNIT 12) Composition Mudstone: Black, argillaceous, fine grained discretely laminated at 60 to 70 degrees to core axis. Structure Bedding: 60 to 70 degrees to core axis. Jointing: parallel to bedding. Upper contact: 70 degrees to core axis. Mineralization Pyrite: 3 to 4%. Fine syngenetic laminae from 0.5 to 1.0mm width, average 0.8mm wide. Mostly as blebs and veins oriented parallel to the bedding, 1 to 10mm in width(average 4 to 5mm), frequency 5 to 6pm. Intensely veined at upper contact, also as disseminations.
155.86	159.70	LAPILLI FRAGMENTAL (UNIT 11) Composition Fragmental: Angular to sub-angular, plagioclase porphyry(30 to 35%), range from 4 to 72mm in width(average 25 to 30mm). Plagioclase phenocrysts(25% of the fragments by volume) average 0.8 to 1.0mm in length and are strongly silicified-albitized set in a fine grained aphanitic siliceous and albitic pale green to green to off white groundmass. Argillite: Interbedded from 155.52 to 156.10 metres. Similar to 151.97 to 155.86 metres containing 5 to 10% angular plagioclase porphyry volcanic fragments. Locally graphitic gouge at 45 to 50 degrees to core axis(up to 3 to 4cm). bedding at 45 to 50 degrees to core axis. Structure Jointing: 60 to 70 degrees to core axis. Alteration Silicification: Strong. Grading to albitization of volcanic fragments. Also siliceous light grey stockwork. Potassic: Strong. Flooding of volcanic fragments(locally up to 60%) postdated by siliceous stockwork. Mineralization Pyrite: 5 to 7%. Mostly as blebs and clusters associated with both fragmental and argillaceous horizons. Sub-Intervals <156.35>-<156.86>: Galena(trace to 1.0%) associated with pyritic blebs. Sphalerite(1.0 to 2.0%) associated with milky to semi-

From(m) To(m) ----------Description----------

translucent high angly quartz veins(as blebs and disseminations) and as flattened and oriented blebs within quartz stockwork.

159.70 160.23 ARGILLACEOUS MUDSTONE (UNIT 12)

Composition

Mudstone: Black, argillaceous.

Mineralization

Pyrite: 7 to 10%.

Veins

Pyrite Veining. Core axis angle 60 to 70 degrees. Cross cuts stockwork, consists of hairline veinlets(frequency 100 per metre) interspersed with veins up to 30mm in width towards the lower contact.

Quartz-k-feldspar-stockwork Veining. Cross cuts unit. Contains brecciated angular argillaceous fragments within its matrix along with traces of sphalerite.

160.23 183.32 POTASSIC FLOODED LAPILLI FRAGMENTAL (UNIT 11)

Composition

Fragments: Lapilli size, average 20mm in width, angular to sub-angular, consist foliation euhedral to subhedral phenocrysts averaging 0.5 to 0.8mm in width set in a potassic flooded groundmass.

Groundmass: Dark grey to black, argillaceous grading to k-feldspar rich(towards the lower contact).

Alteration

K-feldspar: From 160.23 to 170.50 the unit is well brecciated with k-feldspar flooding becoming more pervasive towards the lower contact.

Mineralization

Pyrite: 8 to 10%. Coarse blebs, disseminations and as selvedges within the milky quartz stockwork. Pyrite also occurs in a sericitic veins/stockwork array predating the quartz stockwork and in a bluish grey siliceous argillite breccia stockwork of chalcedonic quartz.

Galena: Trace to 1%. Associated with pyritic blebs and in quartz veinlets from 160.23 to 161.00 metres.

Sphalerite: Trace. As selvedges within milky quartz veins.

Sub-Intervals

<164.23>-<185.32>: Decrease in quartz stockwork. From 170.08 to 185.32 there is a marked increase in k-feldspar flooding and a decrease in the intensity of brecciated. Pyrite(3 to 4%).

183.32 END OF HOLE.

Hole No.: 90-34

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	2.98	2.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46159	2.98	3.30	.32	1.39	.041	1280	-	.00	34.4	494	775	85	32.4	25980	16	92	258	3036
46160	3.30	4.00	.70	2.44	.071	2300	-	.00	36.4	232	1148	55	30.8	25610	23	91	223	1386
46161	4.00	4.50	.50	2.99	.087	3100	-	.00	38.7	583	1044	58	44.7	23190	20	88	325	4531
46162	4.50	5.00	.50	1.64	.048	1550	-	.00	25.5	730	575	64	17.2	13880	17	73	279	1519
46163	5.00	5.49	.49	3.53	.103	3600	-	.00	32.9	482	1176	50	26.7	22920	22	114	320	1019
46164	5.49	6.00	.51	2.29	.067	2090	-	.00	36.5	272	950	104	39.3	22930	19	80	240	3668
46165	6.00	6.50	.50	1.40	.041	1350	-	.00	21.8	78	732	119	13.3	20030	16	68	115	374
46166	6.50	7.00	.50	11.20	.327	10500	-	.00	78.9	264	2236	124	51.6	40770	19	121	413	1858
46167	7.00	7.47	.47	3.57	.104	3500	-	.00	45.6	97	1358	111	24.5	27650	18	86	227	235
46168	7.47	8.00	.53	2.05	.060	2080	-	.00	24.3	256	720	68	15.7	16380	16	60	236	878
46169	8.00	8.53	.53	3.11	.091	3050	-	.00	25.7	161	816	31	20.4	18710	18	60	187	812
46170	8.53	9.08	.55	2.41	.070	2350	-	.00	16.9	118	625	246	19.3	16970	21	51	122	1222
46171	9.08	9.67	.59	1.38	.040	1310	-	.00	11.5	63	689	50	13.0	21330	18	75	93	188
46172	9.67	10.30	.63	1.70	.050	1650	-	.00	24.0	182	956	254	32.8	21860	22	112	200	2445
46173	10.30	11.09	.79	1.89	.055	1900	-	.00	18.3	70	751	46	15.1	21900	24	71	119	371
46174	11.09	11.58	.49	1.26	.037	1300	-	.00	10.3	41	465	89	9.1	12860	15	61	70	286
46175	11.58	12.05	.47	-	-	910	-	-	7.4	46	447	50	10.4	16660	28	54	80	309
46176	12.05	12.57	.52	1.42	.041	1380	-	.00	21.7	192	846	39	26.7	19020	29	962	239	1753
46177	12.57	13.00	.43	1.97	.057	2000	-	.00	26.6	402	626	61	29.3	18200	22	1559	486	2594
46178	13.00	13.50	.50	1.24	.036	1200	-	.00	13.0	230	453	42	19.5	16730	20	634	264	1691
46179	13.50	14.00	.50	-	-	672	-	-	7.9	119	337	36	10.8	13230	14	308	149	1004
46180	14.00	14.63	.63	1.23	.036	1180	-	.00	16.4	287	392	102	18.7	13360	23	375	298	1696
46181	14.63	15.10	.47	-	-	790	-	-	10.0	241	374	75	14.7	15500	25	234	208	1144
46182	15.10	16.10	1.00	-	-	382	-	-	4.7	31	251	122	3.3	13300	20	63	48	333
46183	16.10	17.10	1.00	-	-	100	-	-	2.0	15	434	166	9.5	17420	30	39	51	69
46184	17.10	20.10	3.00	-	-	65	-	-	1.9	8	242	132	2.2	11900	13	28	29	83
46185	20.10	23.10	3.00	-	-	59	-	-	1.6	7	299	113	4.5	10580	12	43	21	107
46186	23.10	26.10	3.00	-	-	51	-	-	1.2	8	203	172	2.1	10120	9	28	14	104
46187	26.10	29.10	3.00	-	-	45	-	-	.8	6	280	155	3.7	11450	7	31	24	144
46188	29.10	32.10	3.00	-	-	18	-	-	1.0	6	240	98	4.5	11360	3	19	15	127
46189	32.10	34.64	2.54	-	-	4	-	-	.8	7	1	122	.1	16060	1	11	1	111
46190	34.64	36.36	1.72	-	-	18	-	-	.8	19	1	150	.1	19210	1	6	1	110
46191	36.36	37.59	1.23	-	-	2	-	-	.9	6	1	122	.1	11920	1	6	1	106
46192	37.59	40.59	3.00	-	-	1	-	-	.8	7	1	163	.1	11470	1	10	1	131
46193	40.59	42.60	2.01	-	-	1	-	-	.9	5	1	141	.1	11140	1	19	1	115
46194	42.60	43.60	1.00	-	-	7	-	-	1.3	6	1	164	.1	14630	1	8	1	133
46195	43.60	44.60	1.00	-	-	7	-	-	1.5	8	1	204	.1	13790	1	17	1	116
46196	44.60	45.78	1.18	-	-	5	-	-	2.0	5	1	118	.1	12330	1	6	1	91
46197	45.78	46.78	1.00	-	-	1	-	-	1.3	6	1	189	.1	17240	1	6	1	109
46198	46.78	47.94	1.16	-	-	4	-	-	.8	6	1	148	.1	13800	1	14	1	87
46199	47.94	48.57	.63	-	-	2	-	-	2.4	6	1	238	.1	16940	1	6	1	81
46200	48.57	50.59	2.02	-	-	4	-	-	1.3	7	1	154	.1	16250	1	6	1	129
46201	50.59	52.87	2.28	-	-	2	-	-	1.2	6	1	196	.1	16210	1	6	1	127
46202	52.87	54.87	2.00	-	-	5	-	-	1.6	5	1	201	.1	14570	1	6	1	108
46203	54.87	56.87	2.00	-	-	5	-	-	1.6	6	1	226	.1	13830	1	12	1	112
46204	56.87	58.87	2.00	-	-	6	-	-	1.1	7	1	181	.1	16400	1	6	1	133
46205	58.87	60.87	2.00	-	-	2	-	-	1.2	6	1	163	.1	15970	1	6	1	120
46206	60.87	62.87	2.00	-	-	2	-	-	1.1	6	1	179	.1	15590	1	6	1	107
46207	62.87	64.17	1.30	-	-	9	-	-	1.2	6	1	211	.1	17250	1	6	1	98

Hole No.: 90-34

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
46208	64.17	67.17	3.00	-	-	2	-	-	.7	6	1	118	.1	11530	1	28	1	88
46209	67.17	69.72	2.55	-	-	4	-	-	.5	6	1	104	.1	10270	4	37	1	94
46210	69.72	71.90	2.18	-	-	3	-	-	.7	6	15	138	.1	8180	5	39	1	102
46211	71.90	74.90	3.00	-	-	6	-	-	.5	4	10	128	.1	8510	2	37	1	102
46212	74.90	77.90	3.00	-	-	7	-	-	.5	4	53	99	.1	7740	4	39	1	95
46213	77.90	80.90	3.00	-	-	4	-	-	.9	4	20	105	.3	6620	3	42	1	82
46214	80.90	83.90	3.00	-	-	11	-	-	1.4	5	13	59	.7	6420	4	38	2	45
46215	83.90	86.90	3.00	-	-	7	-	-	1.8	5	1	60	.1	6320	1	36	1	44
46216	86.90	89.90	3.00	-	-	1	-	-	2.2	5	1	52	.1	6510	1	42	2	38
46217	89.90	92.90	3.00	-	-	5	-	-	2.1	5	1	82	.1	8410	2	28	1	74
46218	92.90	95.90	3.00	-	-	9	-	-	1.5	5	5	95	.3	7770	4	38	1	83
46219	95.90	96.93	1.03	-	-	13	-	-	1.0	5	4	93	.1	8410	3	55	1	105
46220	96.93	99.27	2.34	-	-	7	-	-	1.3	6	1	83	.1	10580	4	32	1	116
46221	99.27	100.27	1.00	-	-	6	-	-	1.4	39	1	101	4.3	27370	33	41	7	309
46222	100.27	101.27	1.00	-	-	3	-	-	1.3	47	1	117	1.5	32100	42	22	8	295
46223	101.27	103.05	1.78	-	-	4	-	-	1.6	41	1	115	.1	28530	32	10	4	161
46224	103.05	103.74	.69	-	-	8	-	-	1.3	44	1	60	.1	67100	1	6	1	97
46225	103.74	105.74	2.00	-	-	63	-	-	1.9	30	1	117	.1	37430	11	16	1	107
46226	105.74	107.74	2.00	-	-	43	-	-	1.5	35	7	105	.1	34470	2	25	1	84
46227	107.74	109.74	2.00	-	-	37	-	-	1.7	36	1	118	.1	40530	2	28	1	88
46228	109.74	111.74	2.00	-	-	26	-	-	1.4	25	1	130	.1	38050	2	39	1	68
46229	111.74	113.74	2.00	-	-	32	-	-	1.7	29	1	110	.1	39860	1	30	1	77
46230	113.74	115.74	2.00	-	-	29	-	-	2.4	25	15	123	.1	37630	1	33	1	88
46231	115.74	117.74	2.00	-	-	19	-	-	2.7	24	15	137	.1	40880	1	26	1	76
46232	117.74	118.74	1.00	-	-	32	-	-	3.5	27	34	167	.1	37340	1	25	1	110
46233	118.74	120.41	1.67	-	-	36	-	-	3.8	22	8	95	.1	37570	3	34	1	69
46234	120.41	121.31	.90	-	-	45	-	-	4.3	24	10	202	.1	37580	3	35	1	82
46235	121.31	123.31	2.00	-	-	44	-	-	4.3	27	22	181	.1	33340	5	39	1	69
46236	123.31	126.31	3.00	-	-	30	-	-	3.0	16	47	133	.1	26060	3	36	1	54
46237	126.31	129.31	3.00	-	-	33	-	-	2.7	13	28	143	.1	32020	2	38	1	48
46238	129.31	132.31	3.00	-	-	38	-	-	3.2	18	25	141	.1	38370	3	34	1	64
46239	132.31	133.50	1.19	-	-	33	-	-	2.7	14	1	106	.1	48410	1	41	1	88
46240	133.50	133.95	.45	-	-	32	-	-	3.4	15	7	96	.1	42110	1	29	1	59
46241	133.95	137.00	3.05	-	-	2	-	-	1.2	7	3	153	.1	30300	1	36	1	57
46242	137.00	140.00	3.00	-	-	1	-	-	1.1	10	1	134	.1	33670	1	25	1	57
46243	140.00	143.00	3.00	-	-	218	-	-	1.4	68	16	120	.1	59360	1	71	1	223
46244	143.00	146.00	3.00	-	-	31	-	-	.4	24	8	122	.1	54630	2	35	1	48
46245	146.00	148.74	2.74	-	-	18	-	-	.5	14	14	134	.1	51860	1	35	1	45
46246	148.74	151.97	3.23	-	-	119	-	-	.3	14	21	89	.1	50580	1	26	1	22
46247	151.97	153.86	1.89	-	-	203	-	-	1.4	37	278	95	3.1	27920	3	50	5	35
46248	153.86	154.83	.97	-	-	305	-	-	1.1	50	600	108	10.8	39930	2	67	18	7
46249	154.83	155.55	.72	-	-	590	-	-	.9	33	459	99	7.8	39160	1	63	15	12
46250	155.55	156.86	1.31	-	-	418	-	-	1.5	27	224	101	5.8	30150	3	751	1	709
46251	156.86	157.89	1.03	-	-	522	-	-	3.2	253	215	97	19.2	30560	1	1470	3	3106
46252	157.89	158.89	1.00	-	-	890	-	-	1.2	23	324	115	5.0	30870	7	69	3	109
46253	158.89	159.39	.50	-	-	712	-	-	1.6	32	419	139	4.7	37950	8	99	9	54
46275	159.39	160.23	.84	-	-	353	-	-	1.9	58	313	93	5.4	35290	12	83	7	562
46254	160.23	161.23	1.00	4.25	.124	4180	-	.00	5.7	62	618	131	14.2	60690	10	1335	10	1416
46255	161.23	162.23	1.00	-	-	423	-	-	2.3	18	302	140	2.8	31480	2	115	2	158
46256	162.23	163.23	1.00	-	-	900	-	-	1.6	22	261	126	3.2	28250	2	67	1	351

Hole No.: 90-34

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
46257	163.23	164.23	1.00	-	-	511	-	-	2.1	13	431	128	5.0	46560	1	54	1	22
46258	164.23	166.25	2.02	-	-	730	-	-	1.5	11	223	243	.4	29890	1	45	1	36
46259	166.25	167.03	.78	-	-	644	-	-	1.6	10	210	208	1.2	29980	1	43	1	41
46260	167.03	167.96	.93	-	-	362	-	-	.8	8	266	219	2.7	26370	1	63	1	17
46261	167.96	168.96	1.00	-	-	440	-	-	1.1	12	255	226	3.9	25490	2	58	1	58
46262	168.96	170.06	1.10	-	-	378	-	-	.6	9	186	416	2.1	22120	3	37	1	39
46263	170.06	172.96	2.90	-	-	485	-	-	1.0	19	223	214	2.5	27730	3	121	1	192
46264	172.96	173.13	.17	-	-	244	-	-	.7	8	95	146	1.0	17770	2	31	1	52
46265	173.13	174.00	.87	-	-	244	-	-	.7	10	133	119	1.1	23140	1	21	1	11
46266	174.00	174.96	.96	-	-	273	-	-	1.2	27	100	213	.1	25580	1	18	1	17
46267	174.96	176.17	1.21	-	-	125	-	-	1.2	20	114	127	.1	27800	1	23	1	15
46268	176.17	177.17	1.00	-	-	139	-	-	.9	14	104	92	.1	21830	2	22	1	15
46269	177.17	178.17	1.00	-	-	353	-	-	1.4	17	251	264	1.7	38590	4	51	1	13
46270	178.17	179.22	1.05	-	-	142	-	-	1.1	12	125	126	.1	30860	1	17	1	20
46271	179.22	180.22	1.00	-	-	31	-	-	.4	16	45	885	.2	23720	3	14	1	17
46272	180.22	182.27	2.05	-	-	86	-	-	1.1	11	60	409	.1	30330	3	30	1	33
46273	182.27	183.27	1.00	-	-	47	-	-	.8	17	28	131	.1	32210	1	22	1	20
46274	183.27	185.32	2.05	-	-	9	-	-	.7	11	1	133	.1	28190	1	24	1	53

COMP: COASTAL MTN.ENGRG.
PROJ: SIB
ATTN: M.REBAGLIATI/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-34

FILE NO: 0S-0702-RJ1+2
DATE: 90/10/24
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
46159	34.4	4820	775	13	85	.1	1	2420	32.4	8	494	25980	1060	9	3710	190	16	80	48	230	92	258	4	1	1	14.6	3036	1	1	1	105	1280
46160	36.4	1620	1148	7	55	.2	1	1210	30.8	6	232	25610	1090	1	390	55	23	30	33	210	91	223	2	1	1	11.0	1386	1	1	1	90	2300
46161	38.7	1730	1044	5	58	.1	1	5880	44.7	5	583	23190	1000	1	1400	87	20	30	17	210	88	325	8	1	1	11.5	4531	1	1	1	112	3100
46162	25.5	1890	575	3	64	.4	1	8820	17.2	3	730	13880	990	2	4190	95	17	30	26	120	73	279	13	1	1	14.0	1519	1	1	1	146	1550
46163	32.9	1760	1176	3	50	.1	1	9470	26.7	4	482	22920	930	1	4750	85	22	20	17	120	114	320	11	1	1	13.0	1019	1	1	1	141	3600
46164	36.5	1750	950	2	104	.1	1	7440	39.3	4	272	22930	990	1	2940	91	19	30	19	200	80	240	11	1	1	11.1	3668	1	1	1	134	2090
46165	21.8	4650	732	2	119	.4	1	10700	13.3	5	78	20030	770	7	11420	121	16	60	23	330	68	115	11	1	1	25.2	374	1	1	1	107	1350
46166	78.9	2970	2236	3	124	.3	1	16080	51.6	6	264	40770	680	4	11010	105	19	40	13	190	121	413	17	1	1	19.1	1858	1	1	1	97	10500
46167	45.6	1120	1358	1	111	.2	1	14380	24.5	5	97	27650	550	1	8330	95	18	20	16	140	86	227	15	1	1	10.5	235	1	1	1	108	3500
46168	24.3	1340	720	1	68	.3	1	7010	15.7	3	256	16380	780	1	3400	66	16	20	17	90	60	236	6	1	1	11.1	878	1	1	2	166	2080
46169	25.7	1190	816	1	31	.2	1	3700	20.4	4	161	18710	760	1	1680	64	18	30	19	110	60	187	5	1	1	8.5	812	1	1	1	119	3050
46170	16.9	1830	625	1	246	.2	1	6370	19.3	4	118	16970	1070	1	2850	90	21	60	31	130	51	122	10	1	1	14.2	1222	1	1	2	156	2350
46171	11.5	1890	689	1	50	.2	1	6790	13.0	5	63	21330	1140	1	3190	96	18	20	11	100	75	93	9	1	1	10.6	188	1	1	1	114	1310
46172	24.0	1790	956	1	254	.1	1	12110	32.8	5	182	21860	1110	1	6240	140	22	30	21	110	112	200	24	1	1	14.5	2445	1	1	1	112	1650
46173	18.3	1830	751	1	46	.1	1	3550	15.1	5	70	21900	980	1	1930	66	24	40	28	120	71	119	6	1	1	8.1	371	1	1	1	149	1900
46174	10.3	1920	465	1	89	.2	1	6620	9.1	3	41	12860	1040	1	3320	74	15	20	13	120	61	70	8	1	1	9.5	286	1	1	2	163	1300
46175	7.4	2350	447	1	50	.4	1	9570	10.4	5	46	16660	1070	4	5400	80	28	20	43	200	54	80	21	1	1	17.8	309	1	1	1	126	910
46176	21.7	1570	846	1	39	.1	1	11090	26.7	4	192	19020	910	1	6110	102	29	20	34	120	962	239	19	1	1	14.2	1753	1	1	1	138	1380
46177	26.6	2140	626	1	61	.2	1	9560	29.3	4	402	18200	1250	1	4950	117	22	20	24	80	1559	486	14	1	1	15.0	2594	1	1	1	123	2000
46178	13.0	1630	453	1	42	.4	1	9800	19.5	4	230	16730	870	1	4820	115	20	30	33	110	634	264	14	1	1	12.8	1691	1	1	1	97	1200
46179	7.9	1460	337	1	36	.3	1	5220	10.8	4	119	13230	710	1	2410	78	14	70	32	100	308	149	7	1	1	14.0	1004	1	1	1	134	672
46180	16.4	2570	392	1	102	.5	1	15620	18.7	3	287	13360	840	4	10520	120	23	40	41	480	375	298	18	1	1	28.9	1696	1	1	1	107	1180
46181	10.0	3290	374	1	75	.5	1	8330	14.7	4	241	15500	1300	3	5610	79	25	30	45	490	234	208	8	1	1	23.0	1144	1	2	1	130	790
46182	4.7	7790	251	1	122	.7	1	7440	3.3	2	31	13300	2740	10	9280	48	20	30	27	90	63	48	9	1	1	9.7	333	2	1	1	55	382
46183	2.0	11000	434	1	166	.7	1	870	9.5	3	15	17420	4360	11	8140	18	30	50	62	80	39	51	3	1	2	4.7	69	3	3	1	14	100
46184	1.9	10670	242	1	132	.8	1	10520	2.2	2	8	11900	3690	12	15210	40	13	70	8	70	28	29	18	1	1	4.0	83	2	1	1	28	65
46185	1.6	9340	299	1	113	.8	1	6930	4.5	2	7	10580	3170	11	11360	22	12	80	1	40	43	21	17	1	1	2.5	107	2	1	1	33	59
46186	1.2	11910	203	1	172	.9	1	3440	2.1	2	8	10120	3570	15	13360	15	9	80	1	50	28	14	10	1	1	2.3	104	2	1	1	39	51
46187	.8	13520	280	1	155	1.1	1	2240	3.7	2	6	11450	3340	22	16790	6	7	90	1	90	31	24	5	1	1	2.7	144	3	1	1	19	45
46188	1.0	12950	240	1	98	1.5	1	8100	4.5	2	6	11360	2100	25	23550	22	3	60	1	30	19	15	8	1	1	3.4	127	1	1	1	20	18
46189	.8	27950	1	13	122	2.1	1	2160	.1	3	7	16060	2730	74	46160	14	1	90	1	10	11	1	4	1	1	4.5	111	1	2	1	45	4
46190	.8	32680	1	10	150	2.6	1	1680	.1	3	19	19210	2810	83	52990	19	1	110	1	10	6	1	4	1	1	4.6	110	1	2	1	45	18
46191	.9	29010	1	6	122	2.3	1	2460	.1	2	6	11920	2590	67	47330	15	1	160	1	10	6	1	6	1	1	4.6	106	1	1	1	40	2
46192	.8	28890	1	4	163	2.7	1	900	.1	2	7	11470	3700	57	41320	8	1	110	1	10	10	1	4	1	1	4.0	131	1	2	1	30	1
46193	.9	29360	1	4	141	3.1	1	800	.1	2	5	11140	3410	62	43100	6	1	90	2	10	19	1	4	1	1	4.1	115	1	1	1	22	1
46194	1.3	30320	1	3	164	3.0	1	6990	.1	3	6	14630	3450	57	46300	25	1	90	1	10	8	1	11	1	1	4.9	133	1	2	1	23	7
46195	1.5	27170	1	3	204	3.4	1	13910	.1	2	8	13790	3990	45	40370	60	1	80	14	10	17	1	15	1	1	4.6	116	1	1	1	19	7
46196	2.0	22690	1	2	118	2.9	1	34260	.1	3	5	12330	2450	40	57520	172	1	60	1	10	6	1	56	1	1	6.6	91	1	1	1	22	5
46197	1.3	34930	1	3	189	3.5	1	8080	.1	3	6	17240	3910	63	52590	40	1	60	1	10	6	1	15	1	1	5.4	109	1	1	1	20	1
46198	.8	27660	1	3	148	2.8	1	5520	.1	2	6	13800	4050	47	39580	33	1	60	1	10	14	1	7	1	1	4.4	87	1	1	1	26	4
46199	2.4	25310	1	2	238	3.9	1	39070	.1	3	6	16940	3100	40	65880	205	1	60	1	10	6	1	58	1	1	7.3	81	1	1	1	19	2
46200	1.3	31700	1	3	154	3.5	1	8790	.1	3	7	16250	4540	52	44800	44	1	60	2	10	6	1	13	1	1	5.1	129	1	1	1	20	4
46201	1.2	32140	1	3	196	3.5	1	8430	.1	3	6	16210	5460	54	43470	44	1	60	2	10	6	1	11	1	1	4.8	127	1	1	1	13	2
46202	1.6	31930	1	2	201	4.0	1	18160	.1	3	5	14570	4410	55	50590	76	1	50	1	10	6	1	22	1	1	5.9	108	1	1	1	17	5
46203	1.6	30910	1	2	226	3.8	1	17950	.1	3	6	13830	5560	52	44430	79	1	70	1	10	12	1	25	1	1	5.6	112	1	1	1	22	5
46204	1.1	38110	1	2	181	3.9	1	6900	.1	3	7	16400	4970	71	57060	41	1	50	1	10	6	1	12	1	1	5.8	133	1	1	1	14	6
46205	1.2	38750	1	3	163	4.0	1	3800	.1	4	6	15970	4970	71	57340	49	1	60	4	10	6	1	9	1	1	8.3	120	1	1	1	17	2
46206	1.1	38390	1	3	179	4.0	1	3410	.1	4	6	15590	5610	69	54990	49	1	60	1	10	6	1	9	1	1	8.1	107	1	2	1	17	2
46207	1.2	38550	1	2	211	3.8	1	4420	.1	4	6	17250	5460	68	54690	74	1	70	1	10	6	1	6	1	1	8.7	98	1	2	1	15	9
46208	.7	22060	1	1	118	2.8	1	2790	.1	3	6	11530	4180	31	28320	52	1	70	9	40	28	1	7	1	1	6.1	88	1	2	1	35	2
46209	.5	15810	1	1	104	2.4	1	1340	.1	2	6	10270	3790	17	17370	41	4	70	8	30	37	1	4	1	1	4.9	94	2	1	1	26	4
46210	.7	15010	15	1	138	2.9	2	980	.1	2	6	8180	4670	10	12060	33	5	70	19	40	39	1	4	1	1	2.5	102	1	1	1	30	3
46211	.5	14660	10	1	128	2.8	1	630	.1	1	4	8510	4820	10	10950	28	2	80	4	10	37	1	4	1	1	2.0	102	1	1	1	32	6
46212	.5	11940	53	1	99	2.8	1	1180	.1	1	4	7740	3910	9	9360	30	4	70	2	10	39	1	5	1	1	1.7	95	3	1	1	34	7
46213	.9	9200	20	1	105	1.8	1	9930	.3	1	4	6620	3630	5	6640	57	3	170	10	20	42	1	20	1	1	2.0	82	1	1	1	49	4
46214	1.4	5560	13	1	59	1.4	1	18970	.7	1	5	6420	2530	3	12610	525	4	130	6	30	38	2	22	1	1	3.2	45	1	1	2	51	11
46215	1.8	5250	1	1	60	1.2	1	31040	.1	2	5	6320	2780	2	26300	980	1	130	6	30	36	1	29	1	1	4.8	44	1	1	1	45	7
46216	2.2	3820	1	1	52	1.3	1	39010	.1	2	5	6510	2370	1	30110	1251	1	70	4	30	42	2	54	1	1	5.1	38	1	1	1	44	1
46217	2.1	8560	1	1	82	1.9	1	32040	.1	2	5	8410	4230	5	26410	978	2	70	3	50	28	1	35	1	1	4.8	74	1	1	1	31	5
46218	1.5	9940	5	1	95	2.0	2	17680	.3	1	5	7770	4770	6	14250	433	4	40	3	40	38	1	10	1	1	3.2	83	1	1	1	31	9

COMP: COASTAL MTN.ENGRG.
PROJ: SIB
ATTN: M.REBAGLIATI/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-34

FILE NO: 0S-0702-RJ3+4
DATE: 90/10/24
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
46219	1.0	12900	4	17	93	2.6	1	12150	.1	1	5	8410	4950	11	15290	253	3	50	1	20	55	1	3	1	1	2.8	105	1	1	1	21	13
46220	1.3	12170	1	10	83	2.7	1	20790	.1	2	6	10580	4510	10	22740	618	4	40	1	20	32	1	8	1	1	3.9	116	1	1	1	13	7
46221	1.4	16860	1	10	101	2.0	1	17560	4.3	8	39	27370	5470	13	23080	509	33	50	48	540	41	7	1	1	1	54.0	309	1	1	1	9	6
46222	1.3	19970	1	8	117	1.8	1	16360	1.5	9	47	32100	5320	17	27200	445	42	50	42	470	22	8	2	1	1	60.4	295	1	4	1	7	3
46223	1.6	19420	1	7	115	1.3	1	23390	.1	10	41	28530	4160	16	34960	766	32	40	46	580	10	4	6	1	1	43.5	161	1	1	1	8	4
46224	1.3	52500	1	10	60	.9	1	17680	.1	37	44	67100	1920	54	60950	898	1	30	34	510	6	1	14	1	1	191.3	97	1	3	2	130	8
46225	1.9	22900	1	6	117	.9	1	12610	.1	13	30	37430	4420	18	21980	500	11	50	15	800	16	1	9	1	1	40.4	107	1	1	1	5	63
46226	1.5	19000	7	6	105	.8	1	9610	.1	12	35	34470	3360	11	12270	300	2	50	2	880	25	1	3	1	1	28.3	84	1	1	1	1	43
46227	1.7	21170	1	5	118	.4	1	13320	.1	12	36	40530	3700	13	12330	406	2	60	1	820	28	1	1	1	1	29.6	88	1	1	1	1	37
46228	1.4	20000	1	4	130	.4	1	22980	.1	11	25	38050	3080	14	13090	658	2	50	1	870	39	1	2	1	1	24.0	68	2	1	1	1	26
46229	1.7	19510	1	5	110	.3	1	11340	.1	12	29	39860	3390	12	10980	313	1	50	3	870	30	1	3	1	1	25.6	77	1	1	1	1	32
46230	2.4	18520	15	3	123	.5	1	17760	.1	12	25	37630	3000	11	9720	437	1	50	1	840	33	1	8	1	1	25.3	88	1	1	1	1	29
46231	2.7	21900	15	4	137	.5	3	28610	.1	12	24	40880	3510	13	11160	723	1	60	2	910	26	1	13	1	1	28.5	76	2	1	1	10	19
46232	3.5	20630	34	4	167	.8	1	24150	.1	12	27	37340	3830	12	10620	623	1	70	1	910	25	1	9	1	1	26.8	110	1	1	1	4	32
46233	3.8	18390	8	3	95	.4	1	21920	.1	11	22	37570	2720	12	10600	544	3	50	1	860	34	1	6	1	1	23.8	69	1	1	1	3	36
46234	4.3	20200	10	4	202	.7	1	22170	.1	11	24	37580	4330	11	10690	527	3	80	1	910	35	1	8	1	1	23.7	82	1	1	1	2	45
46235	4.3	17230	22	3	181	.1	1	19930	.1	9	27	33340	3940	9	9050	499	5	70	2	990	39	1	6	1	1	18.6	69	1	1	1	1	44
46236	3.0	16270	47	3	133	.6	2	27770	.1	8	16	26060	3870	8	10330	736	3	60	3	880	36	1	5	1	1	17.4	54	1	1	1	4	30
46237	2.7	15850	28	2	143	.2	1	21920	.1	9	13	32020	3990	8	10170	619	2	80	1	610	38	1	3	1	1	19.0	48	1	1	1	1	33
46238	3.2	14100	25	3	141	.5	1	10600	.1	12	18	38370	3500	8	8780	391	3	70	1	370	34	1	7	1	1	20.2	64	1	1	1	1	38
46239	2.7	14260	1	4	106	.5	1	13540	.1	14	14	48410	3100	9	12260	639	1	90	1	690	41	1	10	1	1	31.6	88	1	1	1	3	33
46240	3.4	5800	7	5	96	.1	1	35920	.1	16	15	42110	3200	1	21080	1109	1	100	1	700	29	1	17	1	1	19.6	59	1	1	1	3	32
46241	1.2	11110	3	3	153	.5	1	17580	.1	9	7	30300	3680	6	12480	948	1	140	1	520	36	1	9	1	1	23.0	57	1	1	1	2	2
46242	1.1	10470	1	3	134	.1	1	21590	.1	9	10	33670	3280	8	18200	1268	1	110	1	650	25	1	8	1	1	28.1	57	1	1	1	1	1
46243	1.4	15100	16	5	120	.5	1	8430	.1	15	68	59360	3540	9	14400	1009	1	90	1	730	71	1	3	1	1	28.5	223	1	1	1	1	218
46244	.4	12920	8	5	122	.6	1	2310	.1	17	24	54630	3770	8	9610	1035	2	70	1	590	35	1	4	1	1	29.8	48	1	1	1	1	31
46245	.5	12950	14	4	134	.4	1	2710	.1	15	14	51860	3580	7	9420	1040	1	80	1	770	35	1	5	1	1	27.2	45	1	1	1	1	18
46246	.3	9970	21	3	89	.5	1	1640	.1	14	14	50580	3860	5	5990	781	1	70	1	290	26	1	4	1	1	26.4	22	1	1	1	1	119
46247	1.4	5440	278	1	95	.8	1	1180	3.1	22	37	27920	3670	1	1230	119	3	60	1	140	50	5	4	1	1	9.5	35	1	1	1	1	203
46248	1.1	6240	600	2	108	.3	1	3990	10.8	15	50	39930	4140	1	1450	129	2	110	1	1170	67	18	6	1	1	13.6	7	1	1	1	1	305
46249	.9	6170	459	10	99	.3	1	4460	7.8	15	33	39160	4070	1	800	54	1	90	1	1610	63	15	5	1	1	12.3	12	1	1	1	1	590
46250	1.5	5410	224	8	101	.4	1	2770	5.8	13	27	30150	3610	1	960	70	3	90	1	450	751	1	3	1	1	10.6	709	1	1	1	13	418
46251	3.2	4780	215	6	97	.3	1	3430	19.2	11	253	30560	3230	1	520	40	1	160	1	1190	1470	3	4	1	1	11.7	3106	1	1	1	20	522
46252	1.2	5260	324	5	115	.1	1	3790	5.0	14	23	30870	3410	1	660	57	7	120	1	1170	69	3	4	1	1	11.7	109	1	1	1	51	890
46253	1.6	6270	419	4	139	.3	1	2760	4.7	13	32	37950	4080	1	640	53	8	70	1	770	99	9	3	1	1	11.3	54	1	1	1	36	712
46254	5.7	5680	618	6	131	.1	1	2400	14.2	22	62	60690	3890	1	520	44	10	50	1	730	1335	10	1	1	1	12.0	1416	1	1	1	20	4180
46255	2.3	5960	302	3	140	.1	1	2270	2.8	13	18	31480	4010	1	460	19	2	60	1	760	115	2	2	1	1	13.6	158	1	1	1	25	423
46256	1.6	5190	261	2	126	.2	1	3160	3.2	10	22	28250	3640	1	660	44	2	50	1	970	67	1	3	1	1	11.8	351	1	1	1	45	900
46257	2.1	6650	431	4	128	.1	1	4810	5.0	15	13	46560	4600	1	1070	77	1	70	1	1260	54	1	5	1	1	15.2	22	1	1	1	14	511
46258	1.5	7190	223	4	243	.4	1	5280	.4	13	11	29890	4770	1	1100	87	1	60	1	1400	45	1	6	1	1	14.6	36	1	1	1	31	730
46259	1.6	8710	210	3	208	.2	1	4280	1.2	9	10	29980	5590	1	1160	73	1	70	1	1250	43	1	5	1	1	19.0	41	1	1	1	26	644
46260	.8	7570	266	4	219	.2	1	4600	2.7	8	8	26370	5050	1	910	55	1	80	1	1290	63	1	6	1	1	17.1	17	1	1	1	33	362
46261	1.1	6540	255	3	226	.4	1	3180	3.9	8	12	25490	4410	1	700	30	2	50	1	1000	58	1	4	1	1	14.7	58	1	1	1	27	440
46262	.6	6630	186	3	416	.1	1	4120	2.1	9	9	22120	4370	1	1120	83	3	50	1	950	37	1	7	1	1	14.8	39	1	1	2	85	378
46263	1.0	6990	223	3	214	.3	1	5040	2.5	13	19	27730	4800	1	1130	113	3	110	1	1440	121	1	6	1	1	16.2	192	1	1	1	23	485
46264	.7	3950	95	1	146	.1	1	5070	1.0	8	8	17770	3200	1	1270	149	2	140	1	1070	31	1	5	1	1	10.8	52	1	1	1	57	244
46265	.7	4640	133	1	119	.1	1	4880	1.1	9	10	23140	3540	1	2280	244	1	110	1	1210	21	1	6	1	1	14.5	11	1	1	1	50	244
46266	1.2	5580	100	3	213	.2	2	11430	.1	11	27	25580	3970	1	5980	754	1	110	1	1310	18	1	19	1	1	18.9	17	1	1	1	41	273
46267	1.2	5900	114	4	127	.3	1	7040	.1	11	20	27800	4100	1	4960	493	1	140	1	1300	23	1	15	1	1	20.2	15	1	2	1	50	125
46268	.9	5420	104	2	92	.1	1	4160	.1	9	14	21830	3680	1	3610	305	2	150	1	1090	22	1	12	1	2	19.9	15	1	1	1	20	139
46269	1.4	6070	251	4	264	.1	1	7510	1.7	13	17	38590	4090	1	4870	472	4	170	1	1470	51	1	13	1	1	21.2	13	1	1	1	33	353
46270	1.1	7690	125	3	126	.1	1	13590	.1	9	12	30860	3530	3	7820	829	1	110	1	1220	17	1	21	1	1	26.3	20	1	1	1	25	142
46271	.4	11120	45	1	885	.1	1	5190	.2	8	16	23720	3850	5	6900	508	3	130	1	1390	14	1	7	1	1	35.3	17	2	1	1	31	31
46272	1.1	11320	60	1	409	.3	3	10670	.1	11	11	30330	3560	6	10250	962	3	110	1	1370	30	1	12	1	1	41.1	33	2	1	1	39	86
46273	.8	11480	28	1	131	.1	1	7710	.1	11	17	32210	3760	6	8630	752	1	110	1	1510	22	1	7	1	1	39.5	20	1	1	1	16	47
46274	.7	10690	1	1	133	.3	1	11340	.1	10	11	28190	3160	6	10500	874	1	150	1	1540	24	1	11	1	1	56.5	53	2	1	1	29	9
46275	1.9	4180	313	1	93	.1	1	1910	5.4	13	58	35290	2550	1	520	33	12	30	1	590	83	7	2	1	1	11.3	562	1	1	1	31	353

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NORTH VANCOUVER, B.C. CANADA V7M 1T2
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THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

90-34

Assay Certificate

OS-0702-RA1

Company: COASTAL MTN.ENGRG.
Project: SIB
Attn: M.REBAGLIATI/R.HASLINGER

Date: OCT-24-90
Copy 1. COASTAL MTN.ENGRG., VANCOUVER, B.C.
2. COASTAL MTN.ENGRG., C/O TUNDRA

We hereby certify the following Assay of 21 ROCK samples submitted OCT-18-90 by GUY LE PAGE.

Sample Number	AU g/tonne	AU oz/ton
46159	1.39	.041
46160	2.44	.071
46161	2.99	.087
46162	1.64	.048
46163	3.53	.103
46164	2.29	.067
46165	1.40	.041
46166	11.20	.327
46167	3.57	.104
46168	2.05	.060
46169	3.11	.091
46170	2.41	.070
46171	1.38	.040
46172	1.70	.050
46173	1.89	.055
46174	1.26	.037
46176	1.42	.041
46177	1.97	.057
46178	1.24	.036
46180	1.23	.036
46254	4.25	.124

Certified by _____

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SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

90-34

Assay Certificate

OS-0702-XA1

Company: COASTAL MOUNTAIN ENGINEERING
Project: SIB
Attn: M. REBAGLIATI/R. HASLINGER

Date: OCT-31-90
Copy 1. COASTAL MOUNTAIN, VANCOUVER, B.C.

We hereby certify the following Assay of 23 CORE samples submitted OCT-29-90 by GUY LEPAGE.

Sample Number	AG g/tonne	AG oz/ton
46159	35.8	1.04
46160	36.0	1.05
46161	37.0	1.08
46162	25.2	.74
46163	32.4	.95
46164	35.5	1.04
46165	22.0	.64
46166	82.1	2.39
46167	45.7	1.33
46168	24.5	.71
46169	24.8	.72
46170	17.0	.50
46171	11.9	.35
46172	23.8	.69
46173	17.8	.52
46174	10.9	.32
46175	6.9	.20
46176	21.9	.64
46177	26.4	.77
46178	12.8	.37
46179	8.2	.24
46180	16.0	.47
46181	10.2	.30

Certified by _____

MIN-EN LABORATORIES

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-35

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 104B/9	CLAIM #	: SIB 12		
LOCAL GRID	: 8697.93 N / 9882.14 E	GLOBAL GRID	: 13024.38 N / 17833.79 E	ELEVATION	: 1023.20 metres
LENGTH	: 17.98 m	INCLINATION	: 90.0 degrees	AZIMUTH	: none
OVERBURDEN	: 2.91 m	CASING	: 2.91 metres, casing left in hole.		
LOGGED BY	: Guy LePage	DRILLED BY	: J.T. Thomas	ASSAYING BY	: Min-En Labs
DATE LOGGED	: 1990/10/11	DATE DRILLED	: 1990/10/06	CORE LOCATION	: 101+00 N, 98+00
				SAMPLE NO. SERIES	: 46277-46283

SUMMARY LOG 90-35

From(m)	To(m)	Field Name (Legend)
0.00	2.91	CASING
2.91	17.98	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21)
17.98		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-35

No significant results.

From(m)	To(m)	Description
0.00	2.91	CASING
2.91	17.98	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21) Composition Fragments: 70 to 80%. Cherty and less commonly plagioclase porphyry. Sub-angular to angular, 1 to 2mm up to 6cm with an average of 15 to 20mm in width. Groundmass: Dark grey to greyish black, aphanitic, siliceous(+-plagioclase). Mineralization Pyrite: Trace. Rare disseminations. Veins and Sub-Intervals <3.28>-<3.89>: FAULT ZONE. Core is moderately broken, upper contact at 30 degrees to core axis, lower contact at 5 to 15 degrees to core axis. <3.89>-<7.56>: Quartz-calcite-iron carbonate Veining. Vein and stockwork array, veins from 0.5 to 30mm in width(average 5 to 8mm), frequency 50 per metre. Oriented from 50 degrees to core axis to sub-vertical.
17.98		END OF HOLE.

Hole No.: 90-35

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	2.91	2.91	******	.000	0	-	-	.0	1	0	-	-	-	-	0	-	0
46277	2.91	4.00	1.09	-	-	59	-	-	1.9	60	201	39	2.6	14170	27	23	25	83
46278	4.00	6.00	2.00	-	-	37	-	-	1.1	13	100	24	1.8	8420	9	20	13	84
46279	6.00	7.56	1.56	-	-	16	-	-	.9	6	143	20	2.6	9190	14	28	14	94
46280	7.56	10.00	2.44	-	-	8	-	-	.7	6	132	44	1.3	9090	7	24	9	78
46281	10.00	13.00	3.00	-	-	5	-	-	.9	6	86	90	.1	8300	7	31	4	118
46282	13.00	16.00	3.00	-	-	9	-	-	.9	5	77	81	.1	7630	8	25	4	112
46283	16.00	17.98	1.98	-	-	3	-	-	1.0	5	53	68	.1	8860	4	24	2	115

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: MARK REBAGLIATI/R. HASLINGER

MIN-EN LABS — ICP REPORT

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

90-35

FILE NO: 0S-0697-RJ1
DATE: 90/10/23
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
46277	1.9	3060	201	14	39	.8	1	15140	2.6	3	60	14170	1140	1	8920	143	27	140	13	60	23	25	35	1	1	4.2	83	1	1	1	78	59
46278	1.1	1930	100	10	24	.4	1	9930	1.8	2	13	8420	470	1	5410	96	9	420	5	30	20	13	19	1	1	2.7	84	1	2	1	105	37
46279	.9	1860	143	11	20	.1	1	5260	2.6	2	6	9190	190	1	3820	66	14	530	2	30	28	14	12	1	1	2.0	94	1	1	2	124	16
46280	.7	4560	132	9	44	.7	2	1980	1.3	2	6	9090	820	1	5340	33	7	310	1	50	24	9	4	1	1	1.9	78	2	1	1	122	8
46281	.9	9120	86	7	90	1.1	1	3100	.1	2	6	8300	1850	1	10300	33	7	240	2	40	31	4	8	1	1	2.1	118	2	1	1	109	5
46282	.9	4120	77	6	81	1.5	1	6110	.1	1	5	7630	1840	1	6520	40	8	60	1	50	25	4	25	1	1	1.8	112	2	1	1	53	9
46283	1.0	5440	53	5	68	1.7	1	4630	.1	2	5	8860	1970	1	11810	31	4	60	1	30	24	2	11	1	1	2.4	115	1	2	1	64	3

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-36

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 104B/9	CLAIM #	: SIB 10		
LOCAL GRID	: 9403.35 N / 9778.06 E	GLOBAL GRID	: 13701.16 N / 18058.35 E	ELEVATION	: 1083.49 metres
LENGTH	: 130.45 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 117.0 degrees
OVERBURDEN	: 2.57 m	CASING	: 2.57 metres, casing left in hole.		
LOGGED BY	: Guy LePage	DRILLED BY	: J.T. Thomas	ASSAYING BY	: Min-En Labs
DATE LOGGED	: 1990/10/11 Y/M/D	DATE DRILLED	: 1990/10/07 Y/M/D	CORE LOCATION	: 101+00 N, 98+00 E
				SAMPLE NO. SERIES	: 46284-46359

ACID TESTS

Depth	Dip	Azimuth
130.45	-42.0	117.0

SUMMARY LOG 90-36

From(m)	To(m)	Field Name (Legend)
0.00	2.57	CASING
2.57	22.13	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21)
22.13	23.27	ARGILLACEOUS MUDSTONE (UNIT 12)
23.27	24.05	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21)
24.05	40.80	ARGILLACEOUS MUDSTONE (UNIT 12)
40.80	46.33	SANDSTONE (UNIT 14)
46.33	55.93	ARGILLACEOUS MUDSTONE-WACKES (UNIT 12)
55.93	70.07	SANDSTONE (UNIT 14)
70.07	73.60	WACKE/BRECCIA (UNIT 15)
73.60	108.12	TUFFACEOUS FRAGMENTAL (UNIT 11)
108.12	115.62	PLAGIOCLASE PORPHYRY TUFF+-FRAGMENTAL (UNIT 11)
115.62	130.45	CONGLOMERATE (UNIT 13)
130.45		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-36

No significant results.

From(m)	To(m)	Description
0.00	2.57	CASING
2.57	22.13	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21) Composition Fragments: 60 to 70%. Cherty and less commonly tuffaceous, 1 to 2 mm up to 7mm in width(average 15 to 20mm). 10% of these consist of dark to medium green angular fragments of sericite, 2 to 3% consist of angular black argillite. Groundmass: Dark grey, siliceous to sericitic(+-plagioclase). Structure Jointing: 60 degrees to core axis. To a lesser extent at 20 to 30 degrees to core axis, mostly with limonitic staining. Alteration Sericite: Strong. 10% of the fragments show up to 90 to 100% alteration. Mineralization Pyrite: Trace. Rare disseminations. Veins and Sub-Intervals Quartz-iron carbonate-calcite Veining. Core axis angle 45 to 60 degrees. Less conspicuous, 0.3 to 12mm in width, average 4 to 5mm, frequency 5 per metre, barren. Quartz Veining. Core axis angle 45 degrees. Barren, milky, semi-translucent, 5 to 10cm in width(average 7cm), frequency 1 to 5 per metre. <13.59>-<13.91>: FAULT ZONE. 50% recovery, core badly broken with minor gouge, limonite and manganese oxides coating fracture surfaces. Lower contact with argillite at 45 to 50 degrees to core axis.
22.13	23.27	ARGILLACEOUS MUDSTONE (UNIT 12) Composition Mudstone: Massive, argillaceous, black, bedding unclear. Mineralization Pyrite: 3 to 4%. Hosted in the quartz stockwork veining, also as euhedral blebs. Sphalerite: Trace. Veins Quartz-stockwork Veining. Light grey, semi-translucent.

From(m)	To(m)	Description
23.27	24.05	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21) Composition Lithology: Similar to 2.57 to 22.13 metres. Structure Bedding: 45 to 50 degrees to core axis. Towards lower contact the sericitic fragments show a preferred orientation of their long axis. Lower contact: 60 degrees to core axis.
24.05	40.80	ARGILLACEOUS MUDSTONE (UNIT 12) Composition Mudstone: Black, argillaceous, interspersed with discrete pyritic alminae averaging 2 to 3mm in width, often associated with brown to grey siliceous beds averaging 3 to 4mm in width. Sandstone: Towards the lower contact the unit is interbedded with green to pale green sandstone beds averaging 8 to 10mm in width. Graded bedding appears to indicate an uphole facing. Structure Bedding: 45 to 60 degrees to core axis. From 24.65 to 33.50 metres. Bedding: 20 degrees to core axis. From 33.50 to 37.00 metres. Bedding: 50 degrees to core axis. From 37.00 to 40.80 metres. Jointing: parallel to bedding. Throughout. Mineralization Pyrite: 3 to 4%. Mostly syngenetic laminae. Veins and Sub-Intervals Quartz-calcite-iron carbonate Veining. Core axis angle parallel to bedding. 8 to 10mm in width, post date unit. <25.90>-<26.22>: FAULT ZONE. Contact unclear, gouged and graphitic throughout with milky quartz veining. <30.75>-<30.85>: FAULT ZONE. Gouged and graphitic, contact unclear however quartz veining oriented at 60 to 70 degrees to core axis. <36.78>-<37.36>: POSSIBLE FAULT ZONE. Badly broken core, contact unclear.
40.80	46.33	SANDSTONE (UNIT 14) Composition Sandstone: Green to pale green, massive, quartzose-feldspathic, becoming increasingly argillaceous towards the lower contact.

From(m) To(m) ----------Description----------

Structure
Jointing: 50 to 60 degrees to core axis. Prominant joint pattern.
Mineralization
Pyrite: 3 to 4%. Mostly as blebs and selvedges within quartz veins oriented sub-parallel to 10 degrees to core axis, average 15mm in width, frequency 3 to 5 per metre.
Sub-Intervals
<45.33>-<45.88>: FAULT. Upper contact and lower contact oriented at 15 to 20 degrees to core axis, intensely gouged and sericitic throughout.

46.33 55.93 ARGILLACEOUS MUDSTONE-WACKES (UNIT 12)
Composition
Mudstone: Similar to previous descriptions.
Wacke: Interbeds, angular, poorly sorted, quartzose-feldspathic clasts, 10 to 15% pyrite as coarse blebs throughout.
Structure
Lower contact: 30 to 40 degrees to core axis. Locally graphitic.
Veins
<46.33>-<46.95>: Quartz-pyrite-argillite Veining. Intense stockwork pattern, 5 to 10% pyrite as blebs and selvedges within a milky to semi-translucent quartz+-iron carbonate+-calcite stockwork, also containing angular argillaceous fragments.
<50.88>-<52.15>: Quartz-pyrite-iron carbonate-calcite Veining. Core axis angle 35 to 40 degrees. Excellent vein and stockwork array.

55.93 70.07 SANDSTONE (UNIT 14)
Composition
Sandstone: Similar to previous descriptions.
Structure
Jointing: 60 to 70 degrees to core axis.
Veins
Quartz-argillaceous Veining. Core axis angle 20 to 30 degrees. (+-calcite+-iron carbonate), Veining and stockwork interspersed with sericitic veins(10%) from 5 to 20cm in width(average 7 to 8cm width), frequency 1 per metre. Pyrite 5 to 10% over 20 cm occurs as flattened and oriented veins of blebs associated with the quartz and sericite.
<67.87> : Quartz Vein. Milky quartz vein with trace sphalerite and galena.

From(m) To(m) ----------Description----------

70.07 73.60 WACKE/BRECCIA (UNIT 15)

Composition

Clasts: Angular to sub-rounded, poorly sorted, heterolithic, medium to coarse, consist of sericite, quartz, plagioclase feldspar and pyrite. Grain size ranges from 0.5 to 25mm with an average of 4 to 5mm in width.

Matrix: Aphanitic, pale grey to semi-translucent quartz, interstitial to the clasts.

Structure

Jointing: 55 to 60 degrees to core axis. Quartz healed.

Mineralization

Pyrite: 5 to 10%. Mostly as sub-rounded belbs averaging 2 to3mm across. Also as disseminations and clusters associated with clasts.

73.60 108.12 TUFFACEOUS FRAGMENTAL (UNIT 11)

Composition

Fragments: Angular to sub-angular, dark green to green , sericitic, porphyry with euhedral to subhedral plagioclase phenocrysts(sericitized) averaging 0.5 to 0.8mm in width(25 to 30%). Fragments range from 0.5 to 2cm in width(average 8 to 10mm).

Structure

Bedding: 65 to 70 degrees to core axis. Downhole facing indicated by graded bedding.

Jointing: parallel to bedding.

Alteration

Sericite: Strong. Noted in volcanic fragments.

Silicification: Localized pale to bluish grey aphanitic siliceous veins comprise 2 to 3% of the unit and extensive over 10 to 15cm.

Mineralization

Pyrite: 1 to 2%. Occasional blebs and clusters particularly common in the upper section of the unit associated with sericitic fragments. Selvedges within milky quartz-sericite breccias oriented at 5 to 10 degrees to core axis ranging from 2 to >4mm in width(average 4 to 5mm).

Sub-Intervals

<73.60>-<86.00>: Fragments compose 15 to 25% of the unit.

<86.00>-<108.12>: Fragments compose 5 to 10% of the unit.

From(m)	To(m)	Description
108.12	115.62	PLAGIOCLASE PORPHYRY TUFF+-FRAGMENTAL (UNIT 11) Plagioclase Phenocrysts: Euhedral to sul, average 0.6 to 0.8mm in width(25 to 30%). Composition Groundmass: Light oriented bluish grey, aphanitic, plagioclase rich. Fragments: 10%. Angular quartz and felsic fragments, average 2 to 3mm in width. Note the lack of sericitic fragments. Structure Jointing: 75 to 80 degrees to core axis. Minor, annealed with iron carbonate and and quartz. Unit is massive and undeformed. Mineralization Pyrite: Trace to 1%. Fine disseminated specks.
115.62	130.45	CONGLOMERATE (UNIT 13) Composition Clasts: Unit is similar to 108.12 to 115.62 metres. However, increased coarse rounded to sub-rounded siliceous felsic with minor argillite clasts ranging from 0.8 to 30mm in width(average 6 to 7mm). Gneissic: Grey to light grey, fine grained, aphanitic, plagioclase rich. Structure Jointing: 60 to 70 degrees to core axis. Alteration K-feldspar: Unit is cross cut by minor pale green k-feldspar veins oriented at 45 to 50 degrees to core axis towards the lower contact. Mineralization Pyrite: Trace. Rare clusters and disseminations.
130.45		END OF HOLE.

Hole No.: 90-36

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	2.57	2.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46284	2.57	3.12	.55	-	-	3	-	-	.5	3	11	64	.1	9270	1	26	1	29
46285	3.12	5.00	1.88	-	-	6	-	-	.5	3	1	52	.1	8080	2	27	1	29
46286	5.00	7.00	2.00	-	-	6	-	-	.7	2	1	28	.1	8030	1	23	1	27
46287	7.00	10.00	3.00	-	-	2	-	-	.7	2	1	35	.1	7500	1	18	1	26
46288	10.00	12.00	2.00	-	-	1	-	-	.7	1	1	31	.1	7850	1	18	1	26
46289	12.00	13.59	1.59	-	-	8	-	-	.6	3	1	41	.1	9720	1	17	1	34
46290	13.59	15.52	1.93	-	-	60	-	-	.9	27	1	50	.1	13120	1	16	1	96
46291	15.52	18.00	2.48	-	-	7	-	-	.7	3	1	28	.1	15380	1	6	1	41
46292	18.00	21.00	3.00	-	-	12	-	-	.7	2	1	34	.1	7760	1	20	1	26
46293	21.00	22.13	1.13	-	-	8	-	-	.6	2	28	23	.1	8080	1	21	1	24
46294	22.13	23.27	1.14	-	-	13	-	-	1.0	7	1	19	.1	21370	32	14	1	45
46295	23.27	24.65	1.38	-	-	4	-	-	.9	2	1	48	.1	9890	1	16	1	26
46296	24.65	25.65	1.00	-	-	11	-	-	.7	8	21	29	.1	21820	49	39	1	33
46297	25.65	26.65	1.00	-	-	5	-	-	1.0	10	1	40	.1	22040	39	33	1	32
46298	26.65	27.65	1.00	-	-	5	-	-	1.1	10	1	54	.1	19980	26	32	2	183
46299	27.65	28.65	1.00	-	-	3	-	-	1.0	11	1	27	.1	18540	28	28	3	30
46300	28.65	29.65	1.00	-	-	10	-	-	1.1	14	1	34	.1	29270	37	36	2	44
46301	29.65	30.65	1.00	-	-	4	-	-	1.0	9	1	13	.1	25530	25	13	1	53
46302	30.65	31.65	1.00	-	-	6	-	-	1.1	20	1	15	.1	32260	31	6	1	83
46303	31.65	33.32	1.67	-	-	2	-	-	1.0	12	1	50	.1	21990	53	22	1	42
46304	33.32	35.06	1.74	-	-	12	-	-	1.2	10	1	39	.1	28840	16	6	1	59
46305	35.06	35.97	.91	-	-	18	-	-	1.0	12	1	30	.1	28660	19	11	1	50
46306	35.97	38.09	2.12	-	-	10	-	-	1.0	13	1	35	.1	25260	15	25	1	42
46307	38.09	39.01	.92	-	-	12	-	-	.9	16	1	34	.1	27000	14	20	1	43
46308	39.01	40.80	1.79	-	-	10	-	-	.9	10	1	33	.1	24480	5	6	1	52
46309	40.80	42.06	1.26	-	-	7	-	-	1.3	27	1	19	.1	55500	1	6	1	111
46310	42.06	44.00	1.94	-	-	1	-	-	1.1	69	1	53	.1	61720	1	7	1	147
46311	44.00	45.33	1.33	-	-	2	-	-	1.3	49	1	28	.1	61270	1	6	1	148
46312	45.33	46.33	1.00	-	-	19	-	-	2.4	454	1	55	.1	79990	1	7	1	229
46313	46.33	47.09	.76	-	-	74	-	-	1.6	245	1	46	.1	44790	5	14	1	64
46314	47.09	48.80	1.71	-	-	14	-	-	1.3	27	1	27	.1	24800	8	50	1	50
46315	48.80	49.30	.50	-	-	12	-	-	1.2	11	1	38	.1	26230	1	21	1	40
46316	49.30	50.88	1.58	-	-	24	-	-	1.5	15	1	35	.1	28200	16	26	2	43
46317	50.88	52.15	1.27	-	-	12	-	-	1.2	11	1	21	.1	19510	15	28	1	46
46318	52.15	53.15	1.00	-	-	15	-	-	.9	5	1	39	.1	22930	13	16	1	50
46319	53.15	54.25	1.10	-	-	15	-	-	.9	4	1	48	.1	20940	12	15	1	48
46320	54.25	55.93	1.68	-	-	20	-	-	1.2	9	1	37	.1	26500	7	18	1	59
46321	55.93	58.18	2.25	-	-	38	-	-	1.3	9	1	8	.1	67320	1	7	1	127
46322	58.18	58.59	.41	-	-	37	-	-	1.3	41	1	14	.1	60740	1	6	1	139
46323	58.59	58.96	.37	-	-	102	-	-	1.7	19	1	21	.1	53610	1	7	1	236
46324	58.96	60.00	1.04	-	-	34	-	-	1.0	4	1	33	.1	53530	1	7	1	113
46325	60.00	60.35	.35	-	-	22	-	-	1.1	4	1	28	.1	49620	1	5	1	110
46326	60.35	61.50	1.15	-	-	38	-	-	1.3	5	1	15	.1	68090	1	8	1	156
46327	61.50	62.58	1.08	-	-	65	-	-	1.2	7	1	17	.1	48600	1	7	1	89
46328	62.58	64.31	1.73	-	-	41	-	-	1.5	10	1	23	.1	49400	1	7	1	109
46329	64.31	66.45	2.14	-	-	32	-	-	1.1	5	1	20	.1	56490	1	7	1	112
46330	66.45	67.11	.66	-	-	87	-	-	1.7	166	1	23	.1	54990	1	762	1	1274
46331	67.11	67.87	.76	-	-	45	-	-	1.5	11	1	22	.1	61240	1	7	1	139
46332	67.87	68.14	.27	-	-	96	-	-	1.7	204	1	25	.1	53460	1	92	1	378

Hole No.: 90-36

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
46333	68.14	68.73	.59	-	-	48	-	-	1.4	11	1	26	.1	64660	1	7	1	150
46334	68.73	69.49	.76	-	-	122	-	-	1.7	38	1	16	.1	60240	1	7	1	181
46335	69.49	70.07	.58	-	-	40	-	-	1.1	7	1	36	.1	47260	1	7	1	94
46336	70.07	72.07	2.00	-	-	45	-	-	1.3	13	1	40	.1	38050	7	30	1	91
46337	72.07	74.00	1.93	-	-	35	-	-	1.4	10	1	65	.1	34250	11	20	1	63
46338	74.00	77.00	3.00	-	-	30	-	-	.9	13	1	57	.1	31830	1	28	1	64
46339	77.00	80.00	3.00	-	-	18	-	-	.8	10	1	59	.1	34920	2	25	1	75
46340	80.00	83.00	3.00	-	-	10	-	-	.7	2	1	69	.1	30480	2	33	1	57
46341	83.00	86.00	3.00	-	-	23	-	-	.9	34	1	75	.1	42280	1	17	1	63
46342	86.00	89.00	3.00	-	-	27	-	-	.8	4	1	76	.1	37960	1	30	1	65
46343	89.00	92.00	3.00	-	-	17	-	-	.9	3	1	66	.1	28810	3	25	1	58
46344	92.00	95.00	3.00	-	-	10	-	-	.7	1	1	76	.1	29060	2	12	1	48
46345	95.00	97.90	2.90	-	-	8	-	-	.7	5	1	55	.1	28940	1	7	1	53
46346	97.90	98.30	.40	-	-	262	-	-	1.3	19	1	48	.1	27950	1	139	1	446
46347	98.30	101.00	2.70	-	-	22	-	-	.8	1	1	82	.1	22490	1	7	1	60
46348	101.00	104.00	3.00	-	-	4	-	-	.6	1	17	80	.1	13080	2	15	1	64
46349	104.00	107.00	3.00	-	-	20	-	-	.5	1	1	73	.1	31750	2	10	1	48
46350	107.00	110.00	3.00	-	-	71	-	-	.7	2	41	86	.1	39490	1	16	1	53
46351	110.00	113.00	3.00	-	-	31	-	-	.6	5	19	76	.1	27030	1	6	1	35
46352	113.00	115.62	2.62	-	-	21	-	-	.6	1	10	58	.1	33210	1	12	1	42
46353	115.62	118.00	2.38	-	-	15	-	-	.6	1	1	81	.1	22000	1	7	1	43
46354	118.00	118.26	.26	-	-	25	-	-	.7	8	18	65	.7	25480	4	37	1	281
46355	118.26	121.00	2.74	-	-	9	-	-	.5	1	1	75	.1	26010	1	34	1	39
46356	121.00	124.00	3.00	-	-	16	-	-	.7	1	8	71	.1	23760	1	14	1	57
46357	124.00	127.00	3.00	-	-	9	-	-	.6	1	4	77	.1	28170	2	20	1	50
46358	127.00	129.00	2.00	-	-	11	-	-	.4	1	23	68	.1	27590	2	12	1	44
46359	129.00	130.45	1.45	-	-	18	-	-	.8	1	4	77	.1	36160	2	11	1	42

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: M. REBAGLIATI/R. HASLINGER

MIN-EN LABS — ICP REPORT

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

90-36

FILE NO: OS-0699-RJ1+2
DATE: 90/10/24
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
46284	.5	16740	11	4	64	1.5	1	3780	.1	3	3	9270	2060	15	23970	306	1	50	1	70	26	1	3	2	1	5.6	29	2	1	1	73	3
46285	.5	14920	1	3	52	1.4	1	900	.1	3	3	8080	1900	13	20010	137	2	50	1	10	27	1	2	1	1	4.3	29	2	1	1	74	6
46286	.7	16600	1	1	28	1.6	1	2120	.1	2	2	8030	1410	16	25660	163	1	20	1	10	23	1	3	1	1	5.0	27	1	1	2	86	6
46287	.7	16970	1	2	35	1.5	1	1480	.1	2	2	7500	2000	15	24350	142	1	50	1	20	18	1	3	2	1	3.7	26	2	1	1	74	2
46288	.7	16760	1	1	31	1.4	1	2790	.1	2	1	7850	1570	14	25860	172	1	30	1	10	18	1	4	1	1	4.3	26	2	1	1	71	1
46289	.6	19050	1	2	41	1.6	1	570	.1	3	3	9720	1410	16	28050	159	1	100	1	10	17	1	2	1	1	4.3	34	1	1	1	71	8
46290	.9	22350	1	2	50	1.6	1	580	.1	4	27	13120	1200	20	34150	191	1	70	1	10	16	1	3	1	1	6.8	96	1	1	1	79	60
46291	.7	26080	1	1	28	1.6	1	540	.1	5	3	15380	650	23	42360	206	1	90	1	10	6	1	3	1	1	8.5	41	1	1	1	57	7
46292	.7	15470	1	1	34	1.6	1	320	.1	2	2	7760	1300	12	22430	136	1	100	1	10	20	1	2	1	1	3.6	26	2	1	1	74	12
46293	.6	14230	28	1	23	1.3	1	1050	.1	3	2	8080	820	11	21330	137	1	240	1	20	21	1	3	1	1	6.6	24	2	1	2	87	8
46294	1.0	24370	1	1	19	1.6	1	4290	.1	7	7	21370	470	22	42350	276	32	1190	15	10	14	1	5	1	1	43.3	45	1	1	1	102	13
46295	.9	19140	1	1	48	2.1	1	4100	.1	3	2	9890	2400	14	27430	179	1	860	2	50	16	1	5	2	1	9.2	26	2	1	1	62	4
46296	.7	18090	21	1	29	1.2	2	1860	.1	7	8	21820	1250	14	24860	191	49	520	68	510	39	1	4	1	1	107.3	33	1	1	1	48	11
46297	1.0	20980	1	3	40	1.7	1	5460	.1	11	10	22040	2260	18	27080	241	39	540	44	550	33	1	7	1	1	89.1	32	1	1	1	38	5
46298	1.1	20490	1	1	54	1.4	2	7300	.1	6	10	19980	2040	18	28870	241	26	710	34	480	32	2	8	1	1	84.4	183	1	1	1	41	5
46299	1.0	17690	1	1	27	1.1	1	3500	.1	6	11	18540	1420	14	26320	243	28	1020	42	460	28	3	6	1	1	84.7	30	1	1	2	65	3
46300	1.1	24680	1	1	34	1.5	1	2950	.1	9	14	29270	2050	21	34570	281	37	2030	53	910	36	2	6	1	1	160.6	44	1	2	1	36	10
46301	1.0	23960	1	1	13	1.2	1	2230	.1	8	9	25530	510	22	39860	284	25	800	32	450	13	1	4	1	1	115.0	53	1	1	1	54	4
46302	1.1	35120	1	1	15	1.3	1	4270	.1	9	20	32260	640	35	57510	388	31	680	50	490	6	1	8	1	1	175.0	83	1	2	1	21	6
46303	1.0	27720	1	1	50	1.6	1	3540	.1	8	12	21990	1740	25	41260	321	53	710	71	590	22	1	7	1	1	146.9	42	1	1	1	25	2
46304	1.2	32150	1	1	39	1.7	1	5860	.1	9	10	28840	1600	29	51280	532	16	520	36	360	6	1	9	1	1	103.1	59	1	1	1	14	12
46305	1.0	30020	1	1	30	1.5	1	1910	.1	8	12	28660	1270	27	45850	384	19	700	22	370	11	1	5	1	1	77.5	50	1	1	1	18	18
46306	1.0	25160	1	1	35	1.5	1	1380	.1	8	13	25260	1660	22	35930	298	15	970	22	200	25	1	4	1	1	66.6	42	1	2	1	23	10
46307	.9	27810	1	1	34	1.6	1	2680	.1	8	16	27000	1550	25	40510	353	14	770	25	570	20	1	5	1	1	86.8	43	1	1	1	19	12
46308	.9	28230	1	1	33	1.6	1	2450	.1	8	10	24480	1140	30	46650	410	5	570	11	270	6	1	6	1	1	52.1	52	1	1	1	30	10
46309	1.3	49670	1	3	19	1.3	1	4300	.1	31	27	55500	200	34	76250	947	1	50	26	330	6	1	7	1	1	219.3	111	1	2	1	140	7
46310	1.1	55990	1	4	53	1.4	1	2500	.1	33	69	61720	130	37	84110	1106	1	60	24	320	7	1	4	1	1	251.1	147	1	1	1	151	1
46311	1.3	58840	1	4	28	1.5	1	4600	.1	35	49	61270	150	37	88280	1085	1	40	26	370	6	1	7	1	1	265.3	148	1	2	1	162	2
46312	2.4	65830	1	6	55	1.7	1	13870	.1	49	454	79990	40	39	118640	1125	1	10	4	10	7	1	14	1	1	216.9	229	1	2	1	120	19
46313	1.6	24420	1	1	46	.8	1	12330	.1	18	245	44790	90	16	48470	610	5	20	5	110	14	1	10	1	1	76.1	64	1	1	1	30	74
46314	1.3	27490	1	13	27	1.9	1	6400	.1	8	27	24800	1400	25	41800	511	8	530	13	400	50	1	8	1	1	60.8	50	1	1	1	19	14
46315	1.2	27010	1	9	38	1.6	1	3120	.1	8	11	26230	2100	23	37110	379	1	30	1	730	21	1	5	1	1	27.1	40	1	1	1	35	12
46316	1.5	26900	1	7	35	1.2	1	2230	.1	11	15	28200	1850	21	36650	410	16	580	20	500	26	2	4	1	1	54.6	43	1	1	1	25	24
46317	1.2	21310	1	4	21	1.2	1	8030	.1	7	11	19510	990	20	33910	414	15	720	21	300	28	1	10	1	1	52.3	46	1	1	1	77	12
46318	.9	26290	1	4	39	1.1	1	1210	.1	9	5	22930	1600	23	36820	394	13	650	10	270	16	1	4	1	1	44.0	50	1	1	1	29	15
46319	.9	25080	1	3	48	1.2	1	1660	.1	7	4	20940	1370	22	34870	352	12	20	9	430	15	1	4	1	1	51.3	48	1	1	1	38	15
46320	1.2	27560	1	3	37	1.6	1	1500	.1	10	9	26500	1190	23	39690	470	7	330	8	290	18	1	3	1	1	60.4	59	1	1	1	31	20
46321	1.3	46100	1	6	8	1.0	1	1960	.1	32	9	67320	110	30	69930	1033	1	10	6	140	7	1	2	1	1	184.8	127	1	2	1	110	38
46322	1.3	51080	1	6	14	1.2	1	2100	.1	34	41	60740	300	35	72810	1270	1	50	31	370	6	1	3	1	1	240.2	139	1	1	1	164	37
46323	1.7	45560	1	5	21	1.3	1	3570	.1	31	19	53610	720	30	65410	1106	1	20	14	190	7	1	6	1	1	163.9	236	1	1	1	116	102
46324	1.0	44770	1	5	33	1.2	1	1870	.1	32	4	53530	1040	29	59170	1054	1	110	36	560	7	1	4	1	1	214.4	113	1	2	3	172	34
46325	1.1	44870	1	5	28	1.3	1	2750	.1	33	4	49620	920	31	62040	1008	1	90	36	600	5	1	4	1	1	200.0	110	1	1	3	170	22
46326	1.3	54860	1	6	15	1.4	1	1920	.1	42	5	68090	280	36	76170	1267	1	100	48	440	8	1	3	1	1	276.8	156	1	2	1	188	38
46327	1.2	38490	1	4	17	1.5	1	6460	.1	24	7	48600	530	31	54670	984	1	40	12	610	7	1	8	1	1	141.0	89	1	2	1	87	65
46328	1.5	43800	1	4	23	1.7	1	5230	.1	31	10	49400	890	35	58400	1070	1	60	33	380	7	1	6	1	1	190.6	109	1	1	2	136	41
46329	1.1	47890	1	4	20	1.4	1	2810	.1	32	5	56490	570	33	64240	1046	1	50	35	400	7	1	5	1	1	198.3	112	1	2	1	146	32
46330	1.7	44760	1	4	23	1.2	1	2510	.1	29	166	54990	620	33	62560	1016	1	50	18	310	762	1	4	1	1	189.2	1274	1	1	1	135	87
46331	1.5	50540	1	4	22	1.5	1	2140	.1	33	11	61240	620	31	70080	1134	1	40	19	350	7	1	4	1	1	207.3	139	1	2	1	143	45
46332	1.7	41360	1	3	25	1.5	1	4300	.1	32	204	53460	290	24	64250	1042	1	40	16	200	92	1	5	1	1	165.1	378	1	2	1	114	96
46333	1.4	55930	1	4	26	1.6	1	1910	.1	36	11	64660	260	32	82180	1248	1	40	29	270	7	1	4	1	1	245.3	150	1	2	1	154	48
46334	1.7	45910	1	3	16	1.2	1	2840	.1	33	38	60240	270	28	69890	1096	1	30	22	280	7	1	4	1	1	189.4	181	1	2	1	126	122
46335	1.1	39720	1	2	36	1.3	1	1790	.1	25	7	47260	850	30	55260	916	1	30	17	310	7	1	4	1	1	155.0	94	1	1	1	99	40
46336	1.3	29190	1	1	40	1.0	1	4870	.1	13	13	38050	1080	21	39840	647	7	30	1	1010	30	1	4	1	1	53.1	91	1	1	1	22	45
46337	1.4	26270	1	1	65	1.1	1	7790	.1	13	10	34250	2030	18	33350	630	11	30	1	650	20	1	7	1	1	41.4	63	1	1	1	24	35
46338	.9	23440	1	1	57	.7	1	1700	.1	8	13	31830	1560	12	25390	345	1	20	1	180	28	1	2	1	1	23.5	64	1	1	1	5	30
46339	.8	22860	1	1	59	.5	2	2300	.1	8	10	34920	1390	10	23540	378	2	20	1	340	25	1	2	1	1	20.2	75	2	1	1	11	18
46340	.7	20870	1	1	69	.9	1	1270	.1	8	2	30480	1820	9	20220	289	2	20	1	370	33	1	2	1	1	14.0	57	2	1	1	11	10
46341	.9	23850	1	1	75	.7	1	1980	.1	10	34	42280	1820	10	22550	321	1	30	1	380	17	1	2	1	1	21.3	63	3	1	1	3	23
46342	.8	23360	1	1	76	.6	1	2390	.1	11	4	37960	1560	10	23260	405	1	20	1	430	30	1	2	1	1	22.6	65	2	1	1	7	27
46343	.9	20090	1	1	66	.9	2	1720	.1	8	3	28810	1660	8	20290	331	3	30	1	120	25	1	4	1	1	12.4	58	2	1	1	7	17

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: M. REBAGLIATI/R. HASLINGER

MIN-EN LABS — ICP REPORT

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

90-36

FILE NO: OS-0699-RJ3
DATE: 90/10/24
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
46344	.7	20550	1	10	76	1.0	1	1600	.1	11	1	29060	1280	9	21370	350	2	20	7	100	12	1	2	1	1	15.8	48	1	1	1	15	10
46345	.7	21080	1	6	55	1.2	1	1500	.1	10	5	28940	1050	8	23090	385	1	20	1	40	7	1	2	1	1	14.5	53	1	2	1	6	8
46346	1.3	26850	1	4	48	.9	1	2790	.1	10	19	27950	1020	13	36780	483	1	20	1	10	139	1	3	1	1	34.9	446	1	3	1	32	262
46347	.8	20100	1	3	82	1.2	2	2180	.1	8	1	22490	1780	6	22530	375	1	30	1	250	7	1	3	1	1	13.3	60	2	1	1	19	22
46348	.6	14720	17	1	80	1.0	1	1530	.1	6	1	13080	1590	5	17710	284	2	30	1	50	15	1	3	1	1	8.1	64	1	2	1	26	4
46349	.5	20050	1	1	73	1.0	1	1580	.1	12	1	31750	1770	6	19070	333	2	20	1	150	10	1	2	1	1	19.3	48	2	3	1	6	20
46350	.7	20960	41	2	86	1.1	1	2060	.1	14	2	39490	1750	7	21370	347	1	30	1	180	16	1	2	1	1	26.5	53	1	1	1	7	71
46351	.6	14340	19	1	76	.7	1	1290	.1	10	5	27030	2110	3	14580	257	1	30	1	100	6	1	2	1	1	17.2	35	1	1	1	2	31
46352	.6	16540	10	1	58	.9	1	1310	.1	10	1	33210	1530	4	17830	364	1	70	1	240	12	1	2	1	1	30.7	42	1	1	1	3	21
46353	.6	15740	1	1	81	.6	1	1640	.1	7	1	22000	1750	4	17300	311	1	120	1	260	7	1	3	1	1	24.0	43	1	1	1	11	15
46354	.7	11560	18	1	65	.7	1	3110	.7	7	8	25480	2070	5	17200	325	4	110	1	120	37	1	3	1	1	22.1	281	1	2	1	28	25
46355	.5	16300	1	1	75	.8	1	1750	.1	9	1	26010	1860	4	16680	318	1	130	1	520	34	1	2	1	1	36.9	39	1	3	1	10	9
46356	.7	17990	8	1	71	.8	1	2380	.1	9	1	23760	1880	6	18960	392	1	120	1	500	14	1	4	1	1	34.1	57	1	1	1	15	16
46357	.6	16040	4	1	77	.7	2	1860	.1	10	1	28170	2080	6	18060	391	2	140	1	570	20	1	4	1	1	38.0	50	1	1	1	6	9
46358	.4	11910	23	1	68	.5	1	2390	.1	10	1	27590	2080	4	14650	323	2	150	1	430	12	1	3	1	1	28.2	44	3	1	1	10	11
46359	.8	8040	4	1	77	.5	1	5640	.1	11	1	36160	2450	2	17320	492	2	120	1	730	11	1	5	1	1	33.0	42	1	2	1	5	18

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/ SILVER BUTTE RESOURCES LTD. 90-37

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 104B/9	CLAIM #	: SIB 7,8		
LOCAL GRID	: 9796.86 N / 9917.90 E	GLOBAL GRID	: 13989.61 N / 18360.34 E	ELEVATION	: 1134.55 metres
LENGTH	: 137.74 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 117.0 degrees
OVERBURDEN	: 2.00 m	CASING	: 2.0 metres, casing left in hole.		
LOGGED BY	: Guy LePage	DRILLED BY	: J.T. Thomas	ASSAYING BY	: Min-En Labs
DATE LOGGED	: 1990/10/12 Y/M/D	DATE DRILLED	: 1990/10/08 Y/M/D	CORE LOCATION	: 101+00 N, 98+00
				SAMPLE NO. SERIES	: 46360-46435

ACID TESTS

Depth	Dip	Azimuth
137.16	-39.5	117.0

SUMMARY LOG 90-37

From(m)	To(m)	Field Name (Legend)
0.00	2.00	CASING
2.00	77.55	ARGILLACEOUS MUDSTONE (UNIT 12)
77.55	78.75	WACKE SANDSTONE (UNIT 15)
78.75	93.97	ARGILLACEOUS SILTSTONE (UNIT 12)
93.97	100.18	FOSSILIFEROUS SILTSTONE (UNIT 12)
100.18	114.32	WACKE/SANDSTONE with minor silty interbeds (UNIT 15)
114.32	114.68	CONGLOMERATE (UNIT 13)
114.68	115.80	ARGILLACEOUS SILTSTONE (UNIT 12)
115.80	137.74	CONGLOMERATE + WACKE (UNIT 13)
137.74		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-37

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
55.90	56.85	0.95	0.013			
87.78	88.78	1.00	0.013	0.37	1.32	2.23

From(m)	To(m)	Description
0.00	2.00	CASING
2.00	77.55	ARGILLACEOUS MUDSTONE (UNIT 12) Composition Massive: Black, fine grained, finely laminated, mudstone grading to silty-mudstone from 22.00 metres. Structure Bedding: 60 degrees to core axis. Jointing: 45 to 60 degrees to core axis. Also at 5 to 10 degrees to core axis. Lower contact: 70 degrees to core axis. Mineralization Pyrite: Trace to 1%. Disseminations and occasional blebs(+- calcite) and as selvedges within rare calcite+-quartz veins at 60 degrees to core axis(average 2 to 3mm in width). Veins and Sub-Intervals <19.80>-<20.40>: Strongly carbonitized. <28.00>-<77.55>: The unit contains occasional angular plagioclase porphyry fragments, greenish grey, strongly sericitized. <33.52>-<33.58>: Carbonitized brachiopods and crinoids. <46.00>-<77.55>: Calcite-quartz-iron carbonate Veining. Core axis angle 30 to 500 degrees. Range from 0.8 to 12mm with an average 1 to 2mm width, frequency 10 per metre. Pyrite occurs as flattened and oriented grains as selvedges within the veins. <74.85>-<77.55>: Quartz-carbonate-calcite-iron carbonate Veining. Core axis angle 5 to 45 degrees. Cross cuts unit, average 5 to 7mm in width.
77.55	78.75	WACKE SANDSTONE (UNIT 15) Composition Plagioclase: 70 to 80%. Medium to coarse grained, subhedral to euhedral, sericitized. Quartz: Interspersed with plagioclase grains. Anhedral, milky white to semi-translucent, medium to coarse grained. Argillite: 5 to 10%. Dirty siliceous medium grained argillaceous fragments. Structure Bedding: 60 degrees to core axis. Defined by alternating quartz and plagioclase rich layers.

From(m) To(m) ----------Description----------

Lower contact: 60 degrees to core axis.
Mineralization
Pyrite: Trace. Finely disseminated specks and as selvedges within a calcite+-quartz veins oriented at 5 to 10 degrees to core axis, 1 to 3mm in width, frequency 1 per metre.

78.75 93.97 ARGILLACEOUS SILTSTONE (UNIT 12)
Composition
Siltstone: Argillaceous, siltstones to mudstone, discretely laminated at 60 degrees to core axis.
Structure
Jointing: 60 degrees to core axis. Throughout.
Bedding: 60 degrees to core axis.
Mineralization
Pyrite: 1 to 2%. From 78.72 to 87.78 metres. Mostly as disseminations and blebs with their long axis oriented parallel to the6 bedding at 60 degrees to core axis. Minor quartz(+-calcite) argillite breccia.
Sulphides: 5 to 7%. From 87.78 to 90.28 metres. Excellent quartz-sulphide(+-calcite) stockwork. Sulphides as selvedges within the stockwork which also hosts angular brecciated argillite fragments. Sphalerite 3 to 4%, galena 1 to 2% and trace chalcopyrite.
Pyrite: 3 to 5%. From 90.28 to 93.97 metres. Mostly as coarse blebs(+-calcite) and in veins(+-calcite) at 30 to 40 degrees to core axis, ranging from, 1 to 12mm in width(average 7 to 8mm). Also as blebs and disseminations showing a preferred oriented of their long axis at 60 degrees to core axis.
Sub-Intervals
<81.71>-<83.72>: Fossiliferous with interbeds of carbonitized crinoids/brachiopods.

93.97 100.18 FOSSILIFEROUS SILTSTONE (UNIT 12)
Composition
Siltstone: 50%. Brownish-black to black, finely laminated, interspersed with carbonate rich fossils(extensive over 1 to 2metres) including brachiopods crinoids, and molluscs. Many have graphitic body segments(average 4 to 5mm long) with prismatic form usually sub-rounded by calcite.

From(m) To(m) ----------Description----------

Structure
Jointing: 60 to 70 degrees to core axis. Bedding parallel, locally gouged and graphitic over 5 to 10cm.
Mineralization
Pyrite: 3 to 5%. Blebs, disseminations and in veins ranging from 1 to 30mm in width(average 10mm) at 60 degrees to core axis, frequency 3 to 4 per metre.
Chalcopyrite: 1 to 2%. From 95.73 to 96.05 metres. As selvedges within calcite veins oriented at 20 to 30 degrees to core axis.
Sub-Intervals
<98.73>-<99.18>: FAULT ZONE. Badly broken core comprising 50 % quartz(+-calcite+-iron carbonate) veining at 60 degrees to core axis, also containing brecciated argillite fragments.

100.18 114.32 WACKE/SANDSTONE with minor silty interbeds (UNIT 15)
Composition
Sandstone: Light grey to grey grading to black, well laminted, quartzose feldspathic, moderately to poorly sorted sandstone beds with minor silty interbeds. Towards lower contact there a decrease in grain size towards siltstone withd minor interbedded argillite and graphitic prisms.
Groundmass: Mostly pale grey, aphanitic, siliceous to feldspathic with minor argillaceous interbeds. Towards lower contact becomes calcite rich and fossiliferous forming discret lenses oriented at 45 to 60 degrees to core axis.
Structure
Jointing: 65 to 70 degrees to core axis. Bedding parallel.
Mineralization
Pyrite: 3 to 4%. Mostly as disseminations and blebs up to 3 to 4mm in width.
Sub-Intervals
<108.12>-<108.77>: Pyrite 3 to 5%, chalcopyrite 1 to 2%, galena 1 to 2%, quartz+ chalcopyrite(1 to 2%) in a veins (+-calcite) oriented at 10 degrees to core axis.

From(m)	To(m)	Description
114.32	114.68	CONGLOMERATE (UNIT 13) Composition Clasts: Well rounded to sub-rounded, tuffaceous, range from 7.0mm up to 6cm with and average foliation 20 to 25mm in true width. Groundmass: Grey to gteyish black, plagioclase rich(+-argillaceous). Tuff: 50 to 55%. Tuffaceous clasts consist of euhedral to subhedral plagioclase phenocrysts(30 to 35%) set in a sericitic to plagioclase rich green to pale green aphanitic groundmass. Fragments: 5 to 10%. Soft, graphitic-argillaceous, angular, averaging 7 to 10mm in width. Mineralization Pyrite: 1 to 2%. Occasional disseminations and clusters.
114.68	115.80	ARGILLACEOUS SILTSTONE (UNIT 12) Composition Siltstone: Black to greyish black, finely laminated. Phenocrysts: 5 to 7%. Sericitized plagioclase phenocrysts showing a preferred orientaton of their long axis. Structure Bedding: 60 to 70 degrees to core axis. Well laminated. Jointing: 60 to 70 degrees to core axis. Mineralization Pyrite: 1 to 2%. Occasional disseminations and clusters.3
115.80	137.74	CONGLOMERATE + WACKE (UNIT 13) Composition Clasts: 10 to 15%. Crowded clasts(70%) with interbeds of argillaceous mudstone. Lithology: Similar to 114.32 to 114.68 metres. Mineralization Pyrite: 2 to 5%. Coarse clasts and discrete lenses juxtapos6ing tuffaceous clasts. Massive throughout. Sub-Intervals <119.25>-<119.98>: WACKE. Consist of angular argillaceous quartzose and plagioclase rich fragments average 3 to 4mm in width(35 to 40%) set in a plae green sericitic groundmass. Contains occasional pyrite(trace to 1.0%) blebs. <119.98>-<126.90>: Interbedded wacke units(similar to 119.25 to 119.98 metres) containing occasional rounded conglomerate clasts with intensly sericitized dark green mudstone-siltstone. Bedding

From(m)	To(m)	Description
		at 60 degrees to core axis. Pyrite(trace to 3%) mostly as veins oriented at 60 degrees to core axis averaging 6 to 7mm width, frequency 1 per metre.
		<126.90>-<137.34>: Unit consists of 40 to 60% rounded to sub-rounded tuffaceous clasts, averaing 25 to30mm in width set in a mid dark green sericitic groundmass ort a bluish grey chalcedonic assemblege(5 to 10%) and argillite(5%). Pyrite(1 to 2%) mostly as blebs and clusters on clasts.
137.74	END OF HOLE.	

Hole No.: 90-37

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	2.00	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46360	2.00	2.57	.57	-	-	1	-	-	.9	48	1	164	.1	38030	5	28	1	125
46361	2.57	4.00	1.43	-	-	7	-	-	.8	52	6	118	.1	38270	4	17	1	104
46362	4.00	6.00	2.00	-	-	1	-	-	.7	54	30	102	.1	39010	2	27	1	92
46363	6.00	8.00	2.00	-	-	1	-	-	.9	65	1	120	.1	42980	3	29	1	118
46364	8.00	10.00	2.00	-	-	2	-	-	.8	64	33	128	.1	41280	4	27	1	105
46365	10.00	12.00	2.00	-	-	1	-	-	.6	61	1	124	.1	41670	1	18	1	104
46366	12.00	14.00	2.00	-	-	2	-	-	.8	60	1	312	.1	39830	4	13	1	96
46367	14.00	16.00	2.00	-	-	1	-	-	1.0	49	1	102	.1	37620	2	29	1	81
46368	16.00	18.00	2.00	-	-	3	-	-	.7	57	1	139	.1	42790	3	19	1	98
46369	18.00	20.00	2.00	-	-	1	-	-	1.2	56	16	108	.1	47820	1	23	1	92
46370	20.00	22.00	2.00	-	-	2	-	-	1.5	42	18	147	.1	44430	4	20	1	77
46371	22.00	24.00	2.00	-	-	1	-	-	.8	49	14	106	.1	41090	2	27	1	90
46372	24.00	26.00	2.00	-	-	1	-	-	.9	54	1	158	.1	41920	1	21	1	95
46373	26.00	28.00	2.00	-	-	1	-	-	.9	47	1	135	.1	43510	3	15	1	99
46374	28.00	30.00	2.00	-	-	3	-	-	.8	36	24	88	.1	37680	4	26	1	88
46375	30.00	32.00	2.00	-	-	1	-	-	.7	47	25	116	.1	41510	1	19	1	84
46376	32.00	35.19	3.19	-	-	1	-	-	.7	38	8	128	.1	38610	2	10	1	92
46377	35.19	36.00	.81	-	-	1	-	-	.9	42	23	112	.1	43390	2	21	1	92
46378	36.00	39.00	3.00	-	-	5	-	-	.7	48	25	98	.1	39640	4	23	3	93
46379	39.00	40.80	1.80	-	-	9	-	-	.7	65	23	121	.1	42330	2	31	4	98
46380	40.80	41.20	.40	-	-	8	-	-	.7	59	24	122	.1	40640	4	26	2	100
46381	41.20	44.20	3.00	-	-	40	-	-	.9	52	14	129	.1	41880	4	15	1	111
46382	44.20	45.71	1.51	-	-	88	-	-	2.4	40	61	144	.1	43050	2	32	1	93
46383	45.71	46.65	.94	-	-	152	-	-	1.8	47	47	131	.1	36680	2	22	1	87
46384	46.65	48.65	2.00	-	-	56	-	-	1.8	47	64	113	.1	40840	3	19	1	95
46385	48.65	50.65	2.00	-	-	61	-	-	2.2	45	38	117	.1	44230	4	25	1	100
46386	50.65	52.65	2.00	-	-	46	-	-	1.8	58	23	109	.1	40800	2	23	1	92
46387	52.65	54.83	2.18	-	-	30	-	-	1.6	53	28	112	.1	39710	4	23	1	107
46388	54.83	55.90	1.07	-	-	47	-	-	2.3	27	13	73	.1	44980	1	26	1	82
46389	55.90	56.85	.95	-	-	454	-	-	2.6	41	104	119	.1	37320	1	38	1	47
46390	56.85	58.85	2.00	-	-	59	-	-	1.5	39	13	141	.1	42920	2	25	1	81
46391	58.85	60.85	2.00	-	-	46	-	-	1.8	38	27	90	.1	40070	3	21	1	79
46392	60.85	62.85	2.00	-	-	76	-	-	2.1	32	24	113	.1	35330	4	27	2	65
46393	62.85	64.85	2.00	-	-	43	-	-	1.8	41	2	101	.1	38810	4	21	1	79
46394	64.85	66.85	2.00	-	-	40	-	-	1.3	35	42	105	.1	34880	6	18	1	73
46395	66.85	68.85	2.00	-	-	84	-	-	1.7	34	43	83	.1	36740	2	31	2	78
46396	68.85	70.85	2.00	-	-	45	-	-	1.2	42	6	97	.1	41550	5	30	1	82
46397	70.85	72.85	2.00	-	-	12	-	-	.9	39	33	92	.1	36840	2	29	1	73
46398	72.85	74.85	2.00	-	-	1	-	-	1.2	38	4	80	.1	36110	4	27	1	78
46399	74.85	77.55	2.70	-	-	1	-	-	1.1	44	33	88	.1	36710	2	27	1	78
46400	77.55	78.75	1.20	-	-	3	-	-	1.5	15	6	71	.1	40700	4	28	1	64
46401	78.75	80.75	2.00	-	-	17	-	-	1.6	32	20	127	.1	36750	3	55	2	107
46402	80.75	82.75	2.00	-	-	53	-	-	1.8	34	20	119	.1	41770	3	31	3	79
46403	82.75	84.75	2.00	-	-	31	-	-	2.8	40	41	120	.1	38070	3	63	12	108
46404	84.75	85.75	1.00	-	-	39	-	-	2.0	38	45	193	.1	37260	3	53	19	59
46405	85.75	86.75	1.00	-	-	144	-	-	3.2	42	195	181	1.7	37240	3	87	40	69
46406	86.75	87.78	1.03	-	-	92	-	-	2.0	34	230	154	2.7	28660	4	88	31	72
46407	87.78	88.28	.50	-	-	748	-	-	13.7	1733	335	105	115.3	38580	8	13391	544	18839
46408	88.28	88.78	.50	-	-	139	-	-	11.5	2072	228	89	141.5	32550	7	12944	1090	25859

Hole No.: 90-37

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
46409	88.78	89.28	.50	-	-	127	-	-	3.9	76	152	86	4.4	26500	9	3145	93	622
46410	89.28	89.78	.50	-	-	320	-	-	5.8	155	175	102	4.0	39350	8	939	281	616
46411	89.78	90.28	.50	-	-	208	-	-	3.9	65	193	119	2.8	37760	5	612	173	294
46412	90.28	91.78	1.50	-	-	193	-	-	3.8	45	159	105	.2	30000	3	168	58	46
46413	91.78	92.28	.50	-	-	160	-	-	2.5	45	95	112	1.3	23850	6	189	32	480
46414	92.28	94.28	2.00	-	-	99	-	-	2.4	42	141	142	.1	49510	3	93	17	135
46415	94.28	95.79	1.51	-	-	160	-	-	4.2	89	190	127	4.0	38580	5	1204	30	1077
46436	95.79	96.28	.49	-	-	72	-	-	10.2	831	48	132	52.2	27350	7	4780	106	9128
46416	96.28	98.28	2.00	-	-	98	-	-	7.4	429	64	151	21.6	37850	10	2345	145	3896
46417	98.28	100.28	2.00	-	-	112	-	-	3.3	29	243	113	2.6	38660	4	137	22	261
46418	100.28	102.28	2.00	-	-	53	-	-	.9	12	49	88	.8	25140	3	40	9	89
46419	102.28	105.28	3.00	-	-	47	-	-	1.1	7	56	102	.1	24070	3	43	2	77
46420	105.28	108.02	2.74	-	-	76	-	-	1.1	44	57	125	.1	30290	2	140	4	185
46421	108.02	109.77	1.75	-	-	245	-	-	12.9	1738	264	145	73.5	43130	8	13110	215	11744
46422	109.77	110.07	.30	-	-	116	-	-	3.4	58	66	105	1.0	30610	2	350	14	259
46423	110.07	112.09	2.02	-	-	98	-	-	4.6	37	65	198	.1	40250	4	152	15	142
46424	112.09	114.32	2.23	-	-	44	-	-	2.8	14	30	102	.1	30960	5	70	2	51
46425	114.32	114.08	-.24	-	-	51	-	-	2.9	17	67	121	.1	41210	4	60	2	159
46426	114.08	117.85	3.77	-	-	3	-	-	.8	11	46	147	.1	35430	3	26	1	73
46427	117.85	119.35	1.50	-	-	1	-	-	1.0	31	1	139	.1	49590	1	21	1	99
46428	119.35	119.98	.63	-	-	1	-	-	.7	12	4	108	.1	44710	1	29	1	79
46429	119.98	123.00	3.02	-	-	2	-	-	.8	51	26	112	.1	47280	3	24	1	70
46430	123.00	126.00	3.00	-	-	1	-	-	.4	25	1	118	.1	36800	1	25	1	147
46431	126.00	126.90	.90	-	-	1	-	-	.5	22	32	114	.1	61010	2	83	1	148
46432	126.90	130.00	3.10	-	-	1	-	-	.2	8	1	127	.1	43840	1	21	1	81
46433	130.00	133.00	3.00	-	-	17	-	-	.7	15	29	127	.1	41190	1	25	1	83
46434	133.00	136.00	3.00	-	-	9	-	-	.4	18	17	128	.1	44040	1	16	1	116
46435	136.00	137.36	1.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

COMP: COASTAL MTN.ENGRG.
PROJ: SIB
ATTN: M.REBAGLIATI/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-37

FILE NO: OS-0716-RJ1+2
DATE: 90/10/29
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
46360	.9	21100	1	18	164	1.2	2	14290	.1	12	48	38030	3710	17	10060	544	5	120	10	860	28	1	7	1	1	31.3	125	1	1	1	18	1
46361	.8	21100	6	12	118	1.0	1	16240	.1	12	52	38270	3110	15	10770	593	4	110	3	820	17	1	7	1	1	31.9	104	1	1	1	11	7
46362	.7	21100	30	10	102	.9	2	19330	.1	13	54	39010	2860	15	10910	603	2	100	7	780	27	1	7	1	1	36.5	92	1	1	1	8	1
46363	.9	23720	1	9	120	1.4	1	15600	.1	15	65	42980	3300	15	11780	458	3	90	5	820	29	1	5	1	1	37.2	118	1	1	1	6	1
46364	.8	22400	33	8	128	1.0	1	18330	.1	13	64	41280	3690	13	10620	477	4	120	7	870	27	1	8	1	1	40.6	105	1	1	1	13	2
46365	.6	22630	1	8	124	1.1	1	18520	.1	15	61	41670	3590	14	10970	479	1	110	2	880	18	1	8	1	1	40.2	104	1	1	1	12	1
46366	.8	23970	1	8	312	1.2	2	26620	.1	13	60	39830	3730	14	11710	767	4	150	3	1110	13	1	10	1	1	46.9	96	1	1	1	19	2
46367	1.0	19510	1	6	102	.4	2	31040	.1	12	49	37620	2810	12	9990	788	2	90	5	760	29	1	7	1	1	31.2	81	1	1	1	8	1
46368	.7	22960	1	7	139	1.0	1	13760	.1	15	57	42790	3500	13	10960	363	3	100	5	810	19	1	4	1	1	37.9	98	1	1	1	8	3
46369	1.2	26010	16	7	108	.5	2	25110	.1	17	56	47820	3080	16	12980	630	1	140	2	870	23	1	5	1	1	57.9	92	2	1	1	9	1
46370	1.5	23680	18	6	147	.8	3	36940	.1	15	42	44430	2910	15	11500	925	4	160	1	980	20	1	8	1	1	60.4	77	1	1	1	11	2
46371	.8	20360	14	6	106	1.0	2	19550	.1	13	49	41090	2720	12	10220	429	2	100	2	790	27	1	6	1	1	37.6	90	1	1	1	11	1
46372	.9	21620	1	6	158	.8	1	21900	.1	14	54	41920	3690	12	10140	454	1	120	2	790	21	1	7	1	1	38.1	95	1	1	1	15	1
46373	.9	21410	1	6	135	.9	1	19730	.1	13	47	43510	3630	12	10450	418	3	130	1	810	15	1	9	1	1	40.1	99	1	1	1	14	1
46374	.8	16540	24	4	88	.4	1	20440	.1	12	36	37680	2340	11	7910	419	4	120	1	760	26	1	11	1	1	30.3	88	1	1	1	12	3
46375	.7	20880	25	5	116	.9	2	16710	.1	13	47	41510	3430	11	9650	377	1	150	1	780	19	1	8	1	1	40.0	84	1	1	1	16	1
46376	.7	17890	8	5	128	.6	2	21310	.1	12	38	38610	3460	10	8550	467	2	170	1	730	10	1	12	1	1	34.7	92	1	1	1	21	1
46377	.9	19610	23	6	112	1.2	1	19790	.1	12	42	43390	3290	11	10360	471	2	160	1	730	21	1	9	1	1	38.9	92	2	1	1	21	1
46378	.7	9400	25	5	98	1.0	2	17040	.1	12	48	39640	3170	4	8100	417	4	110	4	820	23	3	10	1	1	22.2	93	1	1	1	10	5
46379	.7	8220	23	6	121	.8	1	17250	.1	14	65	42330	4040	5	8100	411	2	100	6	870	31	4	7	1	1	22.8	98	1	1	1	3	9
46380	.7	12870	24	6	122	1.0	2	15340	.1	13	59	40640	3940	9	9090	399	4	110	6	670	26	2	7	1	1	28.5	100	1	1	1	8	8
46381	.9	19660	14	6	129	.8	1	18090	.1	13	52	41880	3350	13	9920	458	4	110	5	810	15	1	8	1	1	32.6	111	1	1	1	10	40
46382	2.4	18600	61	6	144	.9	2	17310	.1	13	40	43050	3640	10	7960	453	2	120	1	930	32	1	7	1	1	33.1	93	1	1	1	13	88
46383	1.8	16500	47	4	131	.5	2	13330	.1	13	47	36680	3780	9	6810	312	2	120	4	770	22	1	5	1	1	26.8	87	1	1	1	20	152
46384	1.8	20730	64	5	113	.8	2	21890	.1	12	47	40840	3080	13	9780	575	3	100	1	790	19	1	8	1	1	32.0	95	1	1	1	13	56
46385	2.2	20840	38	6	117	.8	1	27220	.1	14	45	44230	3470	12	9260	791	4	110	4	990	25	1	12	1	1	36.8	100	2	1	1	17	61
46386	1.8	19210	23	5	109	.7	2	20880	.1	14	58	40800	3400	11	8500	553	2	90	3	840	23	1	9	1	1	32.0	92	1	1	1	9	46
46387	1.6	20370	28	4	112	1.0	2	19470	.1	14	53	39710	2960	13	9280	521	4	90	1	870	23	1	7	1	1	32.6	107	1	1	1	17	30
46388	2.3	22040	13	5	73	.4	3	48320	.1	10	27	44980	2280	15	10300	1556	1	70	1	840	26	1	12	1	1	35.8	82	1	1	1	14	47
46389	2.6	13140	104	3	119	.8	2	7350	.1	12	41	37320	2510	7	5260	227	1	70	4	790	38	1	4	1	1	20.0	47	1	1	1	21	454
46390	1.5	19190	13	15	141	.8	1	16380	.1	12	39	42920	1820	18	9790	512	2	70	5	700	25	1	3	1	1	30.0	81	1	1	1	14	59
46391	1.8	16380	27	10	90	.8	1	19810	.1	12	38	40070	1580	14	8170	531	3	80	1	780	21	1	5	1	1	28.2	79	1	1	1	10	46
46392	2.1	14930	24	9	113	.7	1	21070	.1	12	32	35330	2600	11	6590	538	4	100	2	890	27	2	9	1	1	25.1	65	1	1	1	14	76
46393	1.8	16810	2	7	101	1.0	1	21050	.1	13	41	38810	2630	11	7660	570	4	100	1	810	21	1	8	1	1	28.0	79	1	2	1	7	43
46394	1.3	16920	42	6	105	.7	1	22040	.1	12	35	34880	2900	11	7460	555	6	110	2	790	18	1	9	1	1	25.9	73	1	1	1	11	40
46395	1.7	16390	43	5	83	.5	2	33260	.1	11	34	36740	2310	11	7870	927	2	90	1	840	31	2	13	1	1	25.9	78	2	1	1	9	84
46396	1.2	17020	6	6	97	.8	1	25280	.1	12	42	41550	2380	12	8260	676	5	100	2	910	30	1	9	1	1	26.6	82	1	1	1	13	45
46397	.9	15290	33	4	92	.5	1	20890	.1	12	39	36840	2010	11	7600	556	2	80	2	740	29	1	7	1	1	23.6	73	2	1	1	5	12
46398	1.2	14800	4	4	80	.6	1	20260	.1	12	38	36110	1870	11	7620	582	4	80	2	830	27	1	9	1	1	23.9	78	1	1	1	13	1
46399	1.1	8770	33	4	88	.4	1	15800	.1	11	44	36710	2560	5	8080	586	2	70	1	730	27	1	10	1	1	17.5	78	1	1	1	3	1
46400	1.5	13660	6	4	71	.4	1	32100	.1	9	15	40700	2050	10	9250	1224	4	100	1	1070	28	1	15	1	1	19.8	64	1	1	1	9	3
46401	1.6	8890	20	4	127	.5	1	11450	.1	12	32	36750	2840	5	7780	656	3	70	4	820	55	2	5	1	1	16.7	107	1	2	1	3	17
46402	1.8	9490	20	5	119	.8	1	17180	.1	12	34	41770	3000	6	8470	878	3	80	1	820	31	3	8	1	1	20.1	79	1	4	1	7	53
46403	2.8	5140	41	4	120	.3	2	21320	.1	12	40	38070	3050	1	6560	948	3	70	4	850	63	12	10	1	1	14.8	108	1	1	1	7	31
46404	2.0	6330	45	4	193	1.1	1	10080	.1	11	38	37260	3900	1	6070	645	3	70	4	860	53	19	6	1	1	15.4	59	1	1	1	4	39
46405	3.2	6160	195	5	181	.4	1	8410	1.7	12	42	37240	3940	1	4210	539	3	40	6	1080	87	40	8	1	1	13.1	69	1	1	1	8	144
46406	2.0	5850	230	4	154	1.0	1	4340	2.7	10	34	28660	3650	1	2340	324	4	40	5	840	88	31	6	1	1	11.3	72	1	1	1	19	92
46407	13.7	4680	335	6	105	.2	1	4650	115.3	9	1733	38580	2900	1	1160	227	8	30	1	640	13391	544	6	1	1	9.9	18839	1	2	1	69	748
46408	11.5	3540	228	6	89	.7	1	8280	141.5	8	2072	32550	2330	1	2310	362	7	30	1	540	12944	1090	7	1	1	7.3	25859	1	2	1	70	139
46409	3.9	3290	152	3	86	.7	1	2540	4.4	8	76	26500	2130	1	500	49	9	20	5	610	3145	93	4	1	1	6.8	622	1	1	1	40	127
46410	5.8	4010	175	3	102	.5	1	3200	4.0	10	155	39350	2740	1	680	111	8	30	1	690	939	281	4	1	1	9.4	616	1	1	1	54	320
46411	3.9	4280	193	3	119	.3	1	2600	2.8	9	65	37760	2680	1	600	142	5	30	2	500	612	173	4	1	1	9.2	294	1	1	2	99	208
46412	3.8	4370	159	3	105	.6	1	2860	.2	8	45	30000	2760	1	530	87	3	30	3	820	168	58	5	1	1	7.2	46	1	1	1	35	193
46413	2.5	4690	95	2	112	.7	1	2990	1.3	9	45	23850	3030	1	700	89	6	30	3	740	189	32	4	1	1	8.6	480	1	1	1	47	160
46414	2.4	6480	141	5	142	.4	1	15730	.1	12	42	49510	2960	4	9750	1409	3	40	1	910	93	17	14	1	1	19.3	135	1	2	1	19	99
46415	4.2	4950	190	4	127	.5	1	9840	4.0	12	89	38580	3040	1	3090	473	5	40	1	890	1204	30	7	1	1	12.0	1077	1	1	1	31	160
46416	7.4	3740	64	3	151	.2	1	29950	21.6	9	429	37850	2430	1	7340	1642	10	60	1	720	2345	145	18	1	1	9.8	3896	1	1	1	20	98
46417	3.3	4490	243	2	113	.8	1	7890	2.6	13	29	38660	2940	1	3970	634	4	30	1	340	137	22	9	1	1	10.0	261	1	1	1	20	112
46418	.9	3960	49	2	88	.2	1	6990	.8	12	12	25140	2750	1	4680	582	3	70	1	620	40	9	8	1	1	10.0	89	1	1	1	30	53
46419	1.1	3900	56	1	102	.3	1	13570	.1	9	7	24070	2800	1	5130	903	3	100	1	520	43	2	8	1	1	8.7	77	1	1	1	38	47

COMP: COASTAL MTN.ENGRG.
PROJ: SIB
ATTN: M.REBAGLIATI/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-37

FILE NO: OS-0716-RJ3
DATE: 90/10/29
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
46420	1.1	5110	57	16	125	.2	1	13170	.1	8	44	30290	3200	6	5430	988	2	160	1	600	140	4	7	1	1	14.2	185	1	1	2	64	76
46421	12.9	4320	264	17	145	.5	1	7120	73.5	14	1738	43130	3190	4	1870	307	8	110	1	480	13110	215	9	1	1	6.3	11744	1	1	1	36	245
46422	3.4	3700	66	10	105	.4	1	8310	1.0	9	58	30610	2490	1	2390	395	2	120	1	780	350	14	9	1	1	8.0	259	1	1	1	13	116
46423	4.6	3600	65	9	198	.1	1	19800	.1	11	37	40250	2430	1	2830	680	4	80	1	770	152	15	20	1	1	9.6	142	1	1	1	8	98
46424	2.8	4180	30	7	102	.1	2	30640	.1	8	14	30960	2270	2	3380	1025	5	130	1	680	70	2	17	1	1	11.9	51	1	1	1	6	44
46425	2.9	6610	67	8	121	.1	1	24570	.1	34	17	41210	2590	4	6150	929	4	170	1	810	60	2	14	1	1	25.7	159	1	1	1	11	51
46426	.8	11000	46	8	147	.6	1	11080	.1	11	11	35430	2830	7	6650	648	3	180	1	470	26	1	7	1	1	28.3	73	1	1	1	5	3
46427	1.0	19250	1	7	139	.4	2	12810	.1	15	31	49590	2030	14	8560	905	1	80	1	250	21	1	4	1	1	30.0	99	1	1	1	1	1
46428	.7	19630	4	7	108	.3	1	13850	.1	12	12	44710	2210	13	7480	923	1	270	1	910	29	1	6	1	1	51.9	79	3	2	1	6	1
46429	.8	20430	26	7	112	.5	2	9550	.1	16	51	47280	2300	12	7160	878	3	120	1	490	24	1	5	1	1	34.6	70	1	1	1	1	2
46430	.4	17560	1	6	118	1.0	1	3320	.1	13	25	36800	2290	11	5270	654	1	150	1	170	25	1	3	1	1	37.5	147	2	2	1	1	1
46431	.5	27260	32	7	114	.6	2	2710	.1	17	22	61010	2310	16	7820	974	2	170	1	190	83	1	3	1	1	48.7	148	1	1	1	1	1
46432	.2	18140	1	6	127	.8	1	2410	.1	13	8	43840	2460	11	5680	782	1	150	1	350	21	1	4	1	1	35.1	81	1	1	1	1	1
46433	.7	18550	29	6	127	.4	2	7620	.1	11	15	41190	2480	11	5220	817	1	210	1	900	25	1	5	1	1	36.3	83	1	1	1	9	17
46434	.4	15660	17	6	128	.9	1	3780	.1	13	18	44040	2710	9	6010	926	1	160	1	580	16	1	4	1	1	33.7	116	2	1	1	1	9
46435	.6	18840	40	5	124	.2	2	8130	.1	11	14	40550	2460	10	6270	1054	2	310	1	1130	48	1	7	1	1	41.0	114	2	1	1	32	8
46436	10.2	5260	48	6	132	.2	1	14980	52.2	7	831	27350	3100	1	3080	626	7	160	1	720	4780	106	11	1	1	8.2	9128	1	1	1	24	72

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/ SILVER BUTTE RESOURCES LTD. 90-38

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 104B/9	CLAIM #	: SIB 7		
LOCAL GRID	: 9989.74 N / 10104.61 E	GLOBAL GRID	: 14077.81 N / 18613.88 E	ELEVATION	: 1163.23 metres
LENGTH	: 173.13 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 297.0 degrees
OVERBURDEN	: 3.79 m	CASING	: 3.79 metres.	ASSAYING BY	: Min-En Labs
LOGGED BY	: Guy LePage	DRILLED BY	: J.T. Thomas	CORE LOCATION	: 101+00 N, 98+00
DATE LOGGED	: 1990/10/14 Y/M/D	DATE DRILLED	: 1990/10/10 Y/M/D	SAMPLE NO. SERIES	: 46446-46557

ACID TESTS

Depth	Dip	Azimuth
173.13	-43.0	297.0

SUMMARY LOG 90-38

From(m)	To(m)	Field Name (Legend)
0.00	3.79	CASING
3.79	25.45	ANDESITIC FRAGMENTAL (UNIT 11)
25.45	35.42	ARGILLACEOUS CONGLOMERATE (UNIT 13)
35.42	40.76	ARGILLACEOUS MUDSTONE +- SILTSTONE (UNIT 12)
40.76	47.72	ARGILLACEOUS CONGLOMERATE (UNIT 13)
47.72	67.00	ARGILLACEOUS MUDSTONE +- SILTSTONE + MINOR SANDSTONE/WACKE (UNIT 12)
67.00	67.91	SANDSTONE (UNIT 14)
67.91	77.80	ARGILLACEOUS MUDSTONE (UNIT 12)
77.80	88.88	LAPILLI FRAGMENTAL (UNIT 11)
88.88	90.68	ARGILLACEOUS MUDSTONE (UNIT 12)
90.68	92.88	PLAGIOCLASE PORPHYRY TUFF (UNIT 11)
92.88	98.57	FOSSILIFEROUS SILT-SANDSTONE (UNIT 14)
98.57	119.00	ARGILLACEOUS SILT-MUDSTONE (UNIT 12)
119.00	138.35	CONGLOMERATE (UNIT 13)
138.35	139.35	WACKE (UNIT 15)
139.35	151.44	ARGILLACEOUS MUDSTONE-SILTSTONE (UNIT 12)
151.44	152.15	WACKE (UNIT 15)
152.15	161.20	ARGILLACEOUS SILTSTONE (UNIT 12)
161.20	164.86	CONGLOMERATE (UNIT 13)
164.86	173.13	ARGILLACEOUS MUDSTONE grading to SANDSTONE (UNIT 12)
173.13		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-38

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
45.81	47.72	1.91	0.013			
166.49	172.27	5.78	0.013			

From(m)	To(m)	Description
0.00	3.79	CASING
3.79	25.45	ANDESITIC FRAGMENTAL (UNIT 11) Plagioclase Phenocrysts: Euhedral to subhedral, sericitized, average 0.8 to 1.2mm in length(30%). Composition Groundmass: Fine grained, pale green to greenish grey, sericite-plagioclase rich with argillite and sericite for minor interstitial fillings. From 3.79 to 10.00metres the unit contains occasional quartz-calcite filled amygdaloidal fragments with concretionary tuffaceous(rounded sericite-carbonate) fragments. Fragments long axis oriented at 60 to 70 degrees to core axis. Structure Jointing: 60 to 70 degrees to core axis. Lower contact: 70 degrees to core axis. Alteration Sericite: Strong. Pervasive(testure destructive), becoming more intense towards the lower contact. Mineralization Pyrite: 2 to 3%. Euhedral to coarse blebs and clusters throughout. To a lesser extent as selvedges wihtin hairline net veins. Veins <3.79>-<9.41>: Quartz Veining. Core axis angle 60 degrees. Milky quartz ranging from 0.8 to 5.6cm in width(average 2 to 3cm) interspersed with net hairline veins of a black soft platy mineral(biotite?).
25.45	35.42	ARGILLACEOUS CONGLOMERATE (UNIT 13) Composition Clasts: 30 to 35%. Fragments are plagioclase porphyry with sericitized and sausseritized plagioclase phenocrysts averaging 1 to 2mm in width(30 to35%) set in a pale grey to white albitic light to dark green sericitic groundmass. Clasts range from 1 to 2 up to 20cm(average 30cm) wiht long axis oriented at 55 to 60 degrees to core axis. Groundmass: Trace to Nil. Black to greenish black, argillaceous to sericitic. Structure

From(m)	To(m)	Description
		Jointing: 55 to 60 degrees to core axis. Mineralization Pyrite: 3 to 5%. Coarse blebs and disseminations(mostly associated with clasts) and as disseminations and blebs within the argillaceous sericitic groundmass.
35.42	40.76	ARGILLACEOUS MUDSTONE +- SILTSTONE (UNIT 12) Composition Mudstone: Fine grained with dustings of silty (and rarely sand size) grains. Sedimentary structures include dumping load casts. Structure Bedding: Well laminated roughly oriented at 5 degrees to core axis to sub-parallel grading to 45 degrees to core axis towards the lower contact. Jointing: 5 to 50 degrees to core axis. Mineralization Pyrite: 3 to 4%. Syngenetic laminae(or veins?), gently folded in parts concordant with bedding. Also as blebs and clusters.
40.76	47.72	ARGILLACEOUS CONGLOMERATE (UNIT 13) Composition Lithology: Similar to 25.45 to 35.42 metres. Mineralization Pyrite: 4 to 5%. Occuring here in increasingly abundant veins(1 to 5mm with an average of 1 to 2mm in width) oriented at 30 to 45 degrees to core axis, frequency 4 to 5 per metre. Veins Quartz Veining. Core axis angle 45 to 70 degrees. Towards the lower contact, intense milky quartz veining averaging 2 to 3mm in width, frequency >50 per metre.
47.72	67.00	ARGILLACEOUS MUDSTONE +- SILTSTONE + MINOR SANDSTONE/WACKE (UNIT 12) Composition Mudstone: Silty to sandstone interbeds with excellent graded bedding indicating a downhole facing. Bedding angles variable throughout, commonly well laminated and folded. Structure Jointing: 45 degrees to core axis. Parallel bedding throughout.

From(m) To(m) ----------Description----------

Mineralization
Pyrite: 3 to 4%. Veins syngenetic laminae oriented parallel to the bedding ranging from 0.8 to 20mm in width(average 8 to 10mm).Also as lesser disseminations clusters and blebs most abundant in silty/sandy layers.
Pyrite: 1 to 2%. From 60.00 to 67.00 metres. Occasional blebs and veins/syngenetic laminae oriented parallel to the bedding.
Veins and Sub-Intervals
Quartz-carbonate-calcite Veining. Core axis angle parallel to bedding. Cross cut the unit, 1 to 4mm in width(average 1 to 2mm).
<3.00>-<52.25>: FAULT ZONE. 100% gouge and clay, upper contact and lower contact unclear.
<52.51>-<54.10>: FAULT ZONE. Core badly broken with locally graphitic gouge. Upper contact and lower contact unclear however deformation appears to have occurred at 45 degrees to core axis.
<60.00>-<67.00>: Unit becomes increasingly carbonaceous with little to no detectable silt-sandstone interbeds and minor fossileferous interbeds up to 4 to 5cm in width.

67.00 67.91 SANDSTONE (UNIT 14)
Composition
Sandstone: Medium grained, grey to greyish black, poorly sorted, quartzose-feldspathic medium grained sandstone, massive and undeformed.
Groundmass: Fine grained, argillaceous to siliceous, aphanitic, black.
Structure
Upper contact: 45 degrees to core axis.
Lower contact: 45 degrees to core axis.
Mineralization
Pyrite: 1 to 2%. Disseminations and blebs.
Veins
Calcite Veining. Core axis angle 30 to 45 degrees. Cross cut unit, 0.8 to 3mm in width(average 2mm), frequency 3 per metre.

67.91 77.80 ARGILLACEOUS MUDSTONE (UNIT 12)
Mineralization
Pyrite: 2 to 3%. Disseminations and as blebs and veins(+-calcite) oriented at 40 to 45 degrees to core axis(locally up to 60 degrees to core axis. Range fraom 2 to 15mm in width(average 4 to 5mm), frequency 3 to 4 per metre.

From(m)	To(m)	Description
		Veins Quartz-calcite-stockwork Veining. Core axis angle 45 to 70 degrees. Cross cut unit, frequency 1 to 2 per metre. <70.20>-<70.51>: Quartz-calcite Veining. Sub-parallel to degrees to core axis, containing brecciated argillaceous fragments and occasional pyritic blebs.
77.80	88.88	LAPILLI FRAGMENTAL (UNIT 11) Composition Fragments: 45 to 50%. Lapilli size, tuffaceous, angular to sub-rounded, range from 2.0 to 4.0mm and from 6.0 to7.0cm(bimodal). Fragments consist of of a porphyry phase of euhedral to subhedral saussuritized to sericitized plagioclase phenocrysts(30 to35%) average 20 to 25mm in length set in a pale green plagioclase to sericite rich groundmass. Groundmass: Light grey to greyish black plagioclase rich grading to argillaceous. Structure Massive: Jointing at 45 degrees to core axis. Mineralization Pyrite: 2 to 3%. Mostly as blebs adn clusters occurring interstitial to volcanic fragments.
88.88	90.68	ARGILLACEOUS MUDSTONE (UNIT 12) Composition Mudstone: Fine grained, black to greenish black, discretely laminated mudstone with bedding oriented at 50 to 60 degrees to core axis. Structure Bedding: 50 to 60 degrees to core axis. Mineralization Pyrite: 4 to 5%. Blebs, disseminations and veins oriented at 45 to 60 degrees to core axis ranging from 0,5 to 1.0mm in width(average 3 to 4mm). Veins Quartz-calcite-iron carbonate Veining. Core axis angle parallel to bedding. Range from 0.5 to 12m in width(average 8 to 10mm), frequency >50 per metre.
90.68	92.88	PLAGIOCLASE PORPHYRY TUFF (UNIT 11)

From(m)	To(m)	Description
		Plagioclase Phenocrysts: Euhedral to subhedral, sericitized, average 2.0 to 2.5mm in width. The long axis of the phenocrysts define a bedding plane of 40 to 45 degrees to core axis. Composition Groundmass: Green to greyish green, aphanitic, plagioclase to sericite rich. Structure Bedding: 45 to 60 degrees to core axis. Jointing: parallel to bedding. Mineralization Pyrite: 2 to 3%. Blebs and clusters. Veins Quartz-calcite Veining. Core axis angle 45 to 60 degrees. Milky quartz, 1.0 to 15mm in width(average 0.7 to 0.8mm), frequency 10 per metre.
92.88	98.57	FOSSILIFEROUS SILT-SANDSTONE (UNIT 14) Plagioclase Phenocrysts: Sericitized, subhedral, average 1 to 1.5mm in length, long axis oriented roughly parallel to the bedding, 10 to 15% of the unit(represent a volcanic component). Composition Sandstone: Well laminated silt-sandstone beds defined by quartzose-feldspathic layers oriented at 60 to 70 degrees to core axis. Graded bedding indicates a fining upwards sequence. Clasts: 1 to 2%. Angular to sub-angular, cherty. Fossils: 3 to 4%. Graphitic prismatic body segments hosted in calcite lenses. Occur as discrete lenses averaging 5 to 7mm in width sub-parallel to parallel to the bedding. Structure Jointing: parallel to bedding. With calcite and quartz annealing. Lower contact: Graphitic and gouged. Mineralization Pyrite: 2 to 3%. Mostly as blebs and disseminations, occasional elongate blebs with their long axis oriented parallel to the bedding.
98.57	119.00	ARGILLACEOUS SILT-MUDSTONE (UNIT 12) Composition Mudstone: Black, discretely laminated, argillaceous.

From(m) To(m) ----------Description----------

Structure
Bedding: 60 to 70 degrees to core axis.
Jointing: parallel to bedding.
Mineralization
Pyrite: 2 to 3%. Mostly as discrete veins oriented at 60 degrees to core axis ranging from 0.8 to 6.0mm with an average of 2.0 to 2.5mm in width, frequency 3 to 4 per metre.
Veins
Quartz-calcite Veining. Core axis angle parallel to bedding. Range from 0.8 to 7.0mm in width(average 2.0mm).

119.00 138.35 CONGLOMERATE (UNIT 13)
Composition
Clasts: Rounded to sub-rounded, range from 2mm up to 20cm in width(average 4 to 5cm). Consist of euhedral to subhedral plagioclase phenocrysts(30 to 35%) set in a dark green sericitic grading to pale green to pale grey plagioclase rich groundmass.
Matrix: Argillaceous to sericitic, greyish black to black, fine grained.
Siltstone: 15 to 20%. Silty-sandy interbeds are well laminated at 40 to 45 degrees to core axis and reach up to 50 to 60cm in width.
Structure
Jointing: 60 degrees to core axis.
Lower contact: 45 degrees to core axis.
Alteration
Carbonitized: Many plagioclase phenocrysts appear strongly carbonitized.
Mineralization
Pyrite: 3 to 5%. Blebs and clusters adn lenses interstitial and bordering tuffaceous clasts, also as randomly oriented blebs.
Sub-Intervals
<131.76>-<138.35>: Unit contains 60 to 70% argillaceous mudstone-siltstone containing 3 to 5% rounded tuffaceous clasts but mostly angular to sub-rounded tuffaceous clasts average 3 to 4mm in width. Poorly sorted, pyrite(2 to3%) as discrete veins oriented at 70 to 80 degrees to core axis, 2mm to 10mm in width(average 4 to 5mm), frequency 3 to 4 per metre.

From(m)	To(m)	Description
138.35	139.35	WACKE (UNIT 15) Composition Wacke: Light grey to grey in colour, poorly sorted, angular to sub-rounded, feldspathic and lesser quartz clasts(70%) average 3 to 4mm in width. Elongate argillaceous clasts with long axis oriented at 70 degrees to core axis. Clasts are coarser towards the lower contact.(facing uphole?) Groundmass: Fine grained, grey, plagioclase rich. Structure Jointing: 60 degrees to core axis. Calcite annealing. Mineralization Pyrite: 4 to 5%. Blebs and disseminations and discrete veinlets 1 to 2mm average width, frequency 1 to 2 per metre, oriented at 70 degrees to core axis.
139.35	151.44	ARGILLACEOUS MUDSTONE-SILTSTONE (UNIT 12) Composition Mudstone: Fine argillaceous mudstone hosting euhedral to subhedral sericitized plagioclase phenocrysts averaging 1 to 2mm in width(20%) gradually fining downhole to mudstone which contain occasional(frequency 1 per metre) rounded tuffaceous clasts averaging 3 to 4cm in width. Structure Bedding: 45 to 50 degrees to core axis. Well bedded. Jointing: parallel to bedding. Lower contact: 40 degrees to core axis. Mineralization Pyrite: 3 to 4%. Coarse blebs and disseminations and clusters, discrete veins(+-calcite) oriented at 45 to 50 degrees to core axis ranging from 1.0 to 10.0mm in width(average 2 to 3mm), frequency 4 to 5pm.
151.44	152.15	WACKE (UNIT 15) Composition Lithology: Similar to 138.35 to 139.35 metres. Mineralization Pyrite: 1 to 2%. Blebs and disseminations.

From(m)	To(m)	Description
152.15	161.20	ARGILLACEOUS SILTSTONE (UNIT 12) Composition Groundmass: Black to greyish black, fine grained, argillaceous. Clasts: 4 to 5%. Mostly angular sericitized tuffaceous clasts averaging 15 to 20mm in length. Structure Jointing: 60 degrees to core axis. Parallel to bedding. Sub-Intervals <151.15>-<156.06>: Pyrite(2 to 3%) as disseminations and euhedral blebs and in discrete veins oriented at 45 to 50 degrees to core axis(+calcite) ranging from 1.0 to 4mm in width(average 1.5 to 2.0mm), frequency 4 to 5 per metre. <156.06>-<156.95>: Calcite+-quartz+-pyrite+-sphalerite+-chalcopyrite stockwork and vein array. Veins average 4 to 5mm in width and are oriented at 50 to 60 degrees to core axis. Pyrite(8 to 10%) as selvedges within calcite veins and as disseminations and coarse blebs. Chalcopyrite(0.5 to1.0%) and sphalerite(0.5 to 1.0% as selvedges in veins and stockwork. <156.95>-<161.20>: Decreased intensity of stockwork away from upper contact. Pyrite(3 to 5%) mostly as selvedges within calcite veins oriented at 60 to 70 degrees to core axis and ranging from 1.0 to 2.0mm with an average of 2.0mm in width, frequency 5 to 10 per metre.
161.20	164.86	CONGLOMERATE (UNIT 13) Composition Clasts: 45 to 50%. Rounded to sub-rounded, tuffaceous, average 3 to 4cm in width. Clasts consist of euhedral to subhedral plagioclase phenocrysts averaging 0.8 to 1.5mm in width set in a fine grained plagioclase-sericite rich groundmass. Groundmass: Fine grained, plagioclase-siliceous, grey. Structure Lower contact: 45 degrees to core axis. Alteration K-feldspar: Weak. Minor k-feldspar stockwork alteration. Silicification: Towards the lower contact a bluish-grey siliceous stockwork(10 to 15%) forms interstitial to the clasts. Mineralization Pyrite: 4 to 5%. Veins and blebs/clusters bordering clasts.

From(m) To(m) ----------Description----------

164.86 173.13 ARGILLACEOUS MUDSTONE grading to SANDSTONE (UNIT 12)

Composition

Mudstone: Black, argillaceous mudstone interbedded with sandstone-siltstone units consisting of subhedral plagioclase phenocrysts average 1 to 1.5mm in length and rounded to sub-rounded tuffaceous clasts average 6 to 7mm in width.

Structure

Bedding: 60 degrees to core axis. Well laminated.

Sub-Intervals

<104.86>-<168.77>: Pyrite 5 to 10% as fine grained disseminations blebs and as discrete syngentic lenses and veins(as selvedges within calcite/quartz veins) average 2 to 3mm in width oriented at 50 to 60 degrees to core axis. Barren milky quartz veins at 50 to 60 degrees to core axis from 1 to 2mm up to 17cm in width(average 3 to 4cm), frequency >50 per metre, brecciated argillite/mudstone fragments.

<168.77>-<171.34>: Pyrite 8 to 10%, as disseminations and blebs, mostly as syngenetic laminated blebs and often highly folded. Associated with calcite in lenses and blebs. Also in veins(as selvedges within calcite+-quartz) at varied degrees to core axis, often highly folded, 0.8 to 10mm wide(average 2 to 3mm). Trace chalcopyrite.

<171.34>-<173.13>: Pyrite 4 to 5% mostly as disseminations and clusters and in veins(+calcite) at 60 to 70 degrees to core axis, range from 1 to 5mm in width(average 2 to 3mm), frequency 10 per metre, also as syngenetic laminae.

173.13 END OF HOLE.

Hole No.: 90-38

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	3.79	3.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46446	3.79	5.79	2.00	-	-	15	-	-	1.5	18	442	363	6.0	39210	1	29	3	73
46447	5.79	7.24	1.45	-	-	36	-	-	2.4	44	1455	267	23.1	54300	1	26	2	110
46448	7.24	8.16	.92	-	-	50	-	-	1.7	11	419	125	3.6	35640	1	25	1	44
46449	8.16	10.47	2.31	-	-	34	-	-	1.3	7	522	108	8.0	37060	1	34	1	65
46450	10.47	11.41	.94	-	-	64	-	-	1.5	7	150	111	.1	45780	1	22	1	77
46451	11.41	14.05	2.64	-	-	82	-	-	1.6	9	489	132	8.2	38630	1	47	1	86
46452	14.05	17.03	2.98	-	-	9	-	-	1.3	17	37	167	.1	42270	1	40	1	96
46453	17.03	19.13	2.10	-	-	30	-	-	1.8	24	77	113	.1	32950	1	258	1	443
46454	19.13	20.13	1.00	-	-	14	-	-	1.5	12	31	99	.1	30180	1	191	1	518
46455	20.13	22.13	2.00	-	-	58	-	-	2.8	29	32	93	3.7	33550	1	1144	1	1232
46456	22.13	24.13	2.00	-	-	111	-	-	1.7	18	312	99	4.3	45530	1	142	1	213
46457	24.13	25.45	1.32	-	-	114	-	-	1.1	13	372	162	3.1	33510	2	105	1	220
46458	25.45	28.45	3.00	-	-	93	-	-	1.9	31	80	120	.1	29600	1	161	1	117
46459	28.45	29.29	.84	-	-	18	-	-	1.0	19	33	118	.1	24320	2	26	1	46
46460	29.29	29.87	.58	-	-	58	-	-	1.6	99	58	115	.1	36100	1	32	1	176
46461	29.87	32.87	3.00	-	-	18	-	-	1.7	102	58	180	.1	28570	1	29	1	79
46462	32.87	35.42	2.55	-	-	7	-	-	1.5	26	42	147	.1	29450	1	17	1	49
46463	35.42	36.42	1.00	-	-	42	-	-	1.8	22	378	124	5.7	22780	4	90	1	97
46464	36.42	37.42	1.00	-	-	72	-	-	3.0	31	78	124	1.7	37050	5	723	1	670
46465	37.42	38.42	1.00	-	-	129	-	-	2.5	42	60	97	2.7	24000	4	250	1	588
46466	38.42	39.42	1.00	-	-	57	-	-	2.9	173	57	109	.1	33480	3	77	1	272
46467	39.42	40.00	.58	-	-	214	-	-	4.0	78	103	169	.1	47540	5	71	1	124
46468	40.00	40.76	.76	-	-	154	-	-	4.2	105	135	142	1.4	43560	3	434	2	743
46469	40.76	42.76	2.00	-	-	104	-	-	2.6	83	78	123	2.0	22250	1	418	1	898
46470	42.76	44.31	1.55	-	-	204	-	-	2.6	35	830	116	16.6	35190	1	215	2	270
46471	44.31	44.88	.57	-	-	213	-	-	3.4	23	593	127	13.2	33220	2	314	3	438
46472	44.88	45.81	.93	-	-	311	-	-	5.4	25	842	111	18.6	49290	3	1169	5	959
46473	45.81	47.72	1.91	-	-	430	-	-	7.8	105	677	100	30.7	30620	2	572	8	3559
46474	47.72	48.72	1.00	-	-	28	-	-	2.2	27	81	145	.1	30510	3	44	1	172
46475	48.72	50.72	2.00	-	-	24	-	-	2.1	19	56	127	.1	27390	2	35	1	137
46476	50.72	51.96	1.24	-	-	26	-	-	1.8	25	14	129	.1	32850	3	35	1	109
46477	51.96	52.25	.29	-	-	194	-	-	2.2	45	145	143	.1	42870	1	45	3	61
46478	52.25	54.25	2.00	-	-	153	-	-	2.6	85	127	118	.2	34480	4	44	1	218
46479	54.25	56.25	2.00	-	-	80	-	-	2.3	21	57	136	.1	32350	4	31	1	87
46480	56.25	57.92	1.67	-	-	83	-	-	1.8	41	29	138	.1	30240	1	17	1	78
46481	57.92	58.92	1.00	-	-	184	-	-	1.4	17	75	98	.1	34900	3	37	1	50
46482	58.92	59.66	.74	-	-	258	-	-	1.6	31	117	139	.1	29880	2	28	1	45
46483	59.66	61.66	2.00	-	-	114	-	-	1.4	21	55	141	.1	24150	2	29	1	59
46484	61.66	63.66	2.00	-	-	8	-	-	1.0	29	35	238	.1	31770	3	19	1	120
46485	63.66	65.66	2.00	-	-	10	-	-	.7	33	38	102	.1	22710	3	22	1	30
46486	65.66	67.00	1.34	-	-	4	-	-	.8	22	1	159	.1	47050	2	19	1	59
46487	67.00	67.91	.91	-	-	20	-	-	1.6	18	43	197	.1	21740	2	27	1	113
46488	67.91	70.20	2.29	-	-	4	-	-	.6	10	18	117	.1	34280	3	28	1	50
46489	70.20	70.57	.37	-	-	21	-	-	3.8	49	107	97	.7	27210	6	91	6	119
46490	70.57	72.00	1.43	-	-	86	-	-	1.3	36	69	122	.1	35540	1	56	1	89
46491	72.00	74.51	2.51	-	-	19	-	-	.9	40	14	132	.1	33890	3	27	1	101
46492	74.51	76.14	1.63	-	-	12	-	-	.8	21	35	170	.1	28730	3	25	1	45
46493	76.14	77.80	1.66	-	-	5	-	-	.7	20	33	109	.1	37910	1	26	1	59
46494	77.80	80.74	2.94	-	-	1	-	-	.8	12	19	155	.1	9150	1	24	2	53

Hole No.: 90-38

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
46495	80.74	83.74	3.00	-	-	3	-	-	1.1	14	21	167	.1	12300	1	22	2	68
46496	83.74	86.88	3.14	-	-	2	-	-	.7	20	19	158	.1	8830	1	32	6	53
46497	86.88	87.88	1.00	-	-	30	-	-	1.6	14	122	210	.5	23410	4	72	3	82
46498	87.88	88.88	1.00	-	-	26	-	-	2.3	41	29	165	2.5	18720	2	428	9	470
46499	88.88	89.88	1.00	-	-	8	-	-	1.2	31	41	205	.1	22010	1	38	5	37
46500	89.88	90.68	.80	-	-	53	-	-	1.6	53	73	535	.1	24100	4	60	16	53
46501	90.68	93.25	2.57	-	-	13	-	-	1.1	15	14	254	.1	27810	1	36	1	62
46502	93.25	96.25	3.00	-	-	50	-	-	3.7	20	73	230	.1	30040	5	64	6	46
46503	96.25	99.25	3.00	-	-	31	-	-	3.4	19	48	151	.1	30090	4	49	2	43
46504	99.25	102.25	3.00	-	-	86	-	-	4.5	27	64	154	.1	37540	1	55	5	76
46505	102.25	104.31	2.06	-	-	72	-	-	4.8	50	53	120	.1	32720	1	139	4	112
46506	104.31	105.54	1.23	-	-	70	-	-	5.4	180	50	122	1.0	34850	4	416	7	650
46507	105.54	108.54	3.00	-	-	170	-	-	5.0	66	44	113	.1	35970	1	72	4	530
46508	108.54	111.54	3.00	-	-	48	-	-	2.9	30	37	280	.1	34830	1	41	3	73
46509	111.54	112.74	1.20	-	-	69	-	-	4.3	118	30	143	3.6	43420	2	61	5	1584
46510	112.74	114.74	2.00	-	-	38	-	-	3.0	34	18	189	.1	37070	2	41	1	100
46511	114.74	117.10	2.36	-	-	54	-	-	4.4	39	16	131	.1	42570	1	59	2	77
46512	117.10	119.00	1.90	-	-	26	-	-	2.6	23	27	534	.1	41910	1	38	1	66
46513	119.00	121.00	2.00	-	-	29	-	-	2.7	17	10	235	.1	58880	2	48	1	93
46514	121.00	124.00	3.00	-	-	20	-	-	2.1	10	8	187	.1	34100	3	33	1	32
46515	124.00	125.12	1.12	-	-	27	-	-	1.9	12	1	193	.1	44370	4	20	1	99
46516	125.12	125.84	.72	-	-	67	-	-	3.2	19	43	140	.1	50930	6	51	2	65
46517	125.84	127.84	2.00	-	-	19	-	-	1.8	10	6	168	.1	46660	3	29	1	85
46518	127.84	129.84	2.00	-	-	13	-	-	1.2	7	6	161	.1	32570	1	23	1	93
46519	129.84	131.14	1.30	-	-	9	-	-	1.7	11	6	167	.1	42170	1	18	1	94
46520	131.14	131.76	.62	-	-	97	-	-	3.2	24	74	158	.1	48600	3	40	2	54
46521	131.76	133.91	2.15	-	-	2	-	-	.8	8	27	202	.1	21980	2	13	1	27
46522	133.91	135.39	1.48	-	-	12	-	-	1.0	39	1	192	.1	24310	3	8	1	127
46523	135.39	136.28	.89	-	-	6	-	-	.9	24	29	172	.1	32710	2	18	1	57
46524	136.28	137.51	1.23	-	-	48	-	-	1.6	50	25	196	.1	68930	1	32	1	195
46525	137.51	138.35	.84	-	-	2	-	-	.8	10	28	235	.1	20790	4	13	1	28
46526	138.35	139.35	1.00	-	-	43	-	-	2.1	199	94	206	.1	65820	1	29	1	340
46527	139.35	140.24	.89	-	-	7	-	-	1.7	30	26	133	.1	77380	1	35	1	65
46528	140.24	143.24	3.00	-	-	3	-	-	.7	10	4	221	.1	26610	3	14	1	37
46529	143.24	144.14	.90	-	-	2	-	-	.8	13	7	222	.1	19370	3	13	1	27
46530	144.14	144.71	.57	-	-	74	-	-	1.2	25	54	160	2.4	21930	1	14	1	33
46531	144.71	145.33	.62	-	-	114	-	-	1.4	18	105	151	.9	13960	2	20	2	4
46532	145.33	146.33	1.00	-	-	35	-	-	1.0	29	53	136	.1	50610	1	31	1	46
46533	146.33	147.74	1.41	-	-	29	-	-	1.0	19	42	158	.1	34520	1	13	1	39
46534	147.74	148.74	1.00	-	-	8	-	-	.8	19	32	158	.1	28330	2	23	1	38
46535	148.74	151.40	2.66	-	-	9	-	-	.8	14	8	119	.1	27880	3	12	1	38
46536	151.40	152.11	.71	-	-	5	-	-	1.0	10	1	162	.1	18340	2	22	1	31
46537	152.11	155.11	3.00	-	-	26	-	-	1.1	43	40	137	.1	14870	3	21	1	23
46538	155.11	156.06	.95	-	-	53	-	-	1.2	120	76	199	.1	21370	1	49	1	32
46539	156.06	156.63	.57	-	-	210	-	-	3.0	356	119	237	4.6	41100	2	494	2	692
46540	156.63	156.95	.32	-	-	244	-	-	1.9	263	73	179	.1	52290	2	45	1	54
46541	156.95	157.89	.94	-	-	79	-	-	1.7	48	80	167	.1	52270	2	57	1	68
46542	157.89	159.25	1.36	-	-	58	-	-	1.4	98	9	181	.1	32880	2	23	1	35
46543	159.25	161.20	1.95	-	-	69	-	-	2.8	416	61	141	.1	41720	1	26	1	46
46544	161.20	162.20	1.00	-	-	98	-	-	1.7	86	131	150	.1	39780	1	20	1	13

Hole No.: 90-38

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
46545	162.20	163.20	1.00	-	-	238	-	-	2.3	154	168	188	.7	26440	1	29	2	7
46546	163.20	164.66	1.46	-	-	336	-	-	1.5	39	196	212	1.3	34390	1	29	1	5
46547	164.66	165.66	1.00	-	-	248	-	-	3.3	24	245	160	1.3	34360	4	64	8	5
46548	165.66	166.49	.83	-	-	122	-	-	2.5	12	116	318	1.5	19190	1	51	2	10
46549	166.49	167.41	.92	-	-	417	-	-	1.2	14	314	244	4.3	27430	1	55	2	10
46550	167.41	168.77	1.36	-	-	222	-	-	1.0	11	146	189	1.4	18880	1	30	1	35
46551	168.77	169.27	.50	-	-	556	-	-	6.3	29	340	139	2.6	41030	9	73	11	6
46552	169.27	169.77	.50	-	-	475	-	-	5.2	30	284	137	1.2	42960	9	91	9	10
46553	169.77	170.34	.57	-	-	330	-	-	3.3	17	255	168	2.5	34150	4	83	5	16
46554	170.34	170.84	.50	-	-	292	-	-	5.7	26	243	120	4.4	35730	5	74	8	1
46555	170.84	171.34	.50	1.43	.042	1380	-	.00	5.2	33	622	75	8.0	54400	3	97	13	226
46556	171.34	172.27	.93	-	-	352	-	-	1.7	13	243	150	.7	36090	1	48	2	6
46557	172.27	173.13	.86	-	-	294	-	-	1.7	10	143	190	.2	17480	4	34	2	6

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: M. REBAGLIATI/R. HASLINGER

MIN-EN LABS — ICP REPORT

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

90-38

FILE NO: 0S-0718-RJ1+2
DATE: 90/10/30
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
46446	1.5	7720	442	25	363	.3	1	19550	6.0	10	18	39210	3890	5	9260	1438	1	100	1	1500	29	3	15	1	1	26.3	73	1	3	1	51	15
46447	2.4	18630	1455	11	267	.4	1	12390	23.1	21	44	54300	4110	14	12590	1198	1	830	1	2120	26	2	13	1	1	108.1	110	2	1	1	15	36
46448	1.7	9650	419	7	125	.1	2	26480	3.6	10	11	35640	2660	6	7450	1731	1	1060	1	1090	25	1	40	1	1	44.9	44	2	1	2	91	50
46449	1.3	6440	522	7	108	.1	1	18090	8.0	11	7	37060	4390	1	5680	1194	1	560	1	1640	34	1	19	1	1	22.3	65	1	1	1	22	34
46450	1.5	13040	150	6	111	.1	1	19720	.1	13	7	45780	4400	7	6590	1181	1	50	1	1520	22	1	13	1	1	31.7	77	2	2	1	35	64
46451	1.6	11980	489	6	132	.3	1	20070	8.2	11	9	38630	4340	5	6010	1270	1	50	1	1680	47	1	11	1	1	25.2	86	1	1	1	14	82
46452	1.3	15150	37	5	167	.5	1	19150	.1	13	17	42270	3560	8	7960	1067	1	160	1	1900	40	1	8	1	1	29.1	96	1	1	1	19	9
46453	1.8	10890	77	3	113	.1	1	15610	.1	10	24	32950	3040	5	5270	897	1	180	1	1640	258	1	6	1	1	21.6	443	1	1	1	23	30
46454	1.5	10640	31	3	99	.4	1	12550	.1	9	12	30180	3010	5	4800	749	1	180	1	1820	191	1	5	1	1	22.6	518	1	1	1	25	14
46455	2.8	12940	32	3	93	.2	2	14880	3.7	9	29	33550	3090	7	6570	1097	1	180	1	1500	1144	1	6	1	1	26.6	1232	1	1	1	29	58
46456	1.7	13270	312	3	99	.2	1	16350	4.3	12	18	45530	3700	6	5930	1130	1	160	1	1580	142	1	5	1	1	25.9	213	1	1	1	21	111
46457	1.1	11450	372	3	162	.4	1	9400	3.1	11	13	33510	4620	4	4420	608	2	140	1	1840	105	1	7	1	1	23.5	220	1	1	1	17	114
46458	1.9	11280	80	2	120	.2	1	13860	.1	14	31	29600	3120	5	4310	743	1	170	1	1320	161	1	6	1	1	27.2	117	1	1	1	19	93
46459	1.0	10110	33	1	118	.5	1	13760	.1	13	19	24320	3440	4	3570	808	2	250	1	1320	26	1	6	1	1	24.3	46	1	1	1	19	18
46460	1.6	15280	58	2	115	.3	1	15040	.1	16	99	36100	3140	10	7050	1015	1	1250	1	1380	32	1	18	1	1	30.2	176	1	1	1	27	58
46461	1.7	13530	58	1	180	.4	1	19510	.1	10	102	28570	3020	7	5590	1150	1	1010	1	1250	29	1	13	1	1	31.5	79	2	1	1	9	18
46462	1.5	13350	42	3	147	.1	2	19870	.1	11	26	29450	4040	7	5580	1296	1	810	1	1260	17	1	9	1	1	30.1	49	2	1	1	26	7
46463	1.8	6560	378	2	124	.5	1	13790	5.7	11	22	22780	3850	1	3390	824	4	1100	2	1000	90	1	19	1	1	15.7	97	1	1	1	39	42
46464	3.0	6390	78	2	124	.4	1	4080	1.7	16	31	37050	3740	2	3040	453	5	1170	1	970	723	1	5	1	1	23.2	670	1	1	1	27	72
46465	2.5	5270	60	1	97	.2	1	5710	2.7	11	42	24000	3420	1	2160	328	4	980	1	600	250	1	6	1	1	14.7	588	1	1	1	17	129
46466	2.9	5220	57	2	109	.5	1	4020	.1	10	173	33480	3500	1	3290	531	3	1040	1	650	77	1	8	1	1	21.7	272	1	1	1	27	57
46467	4.0	5830	103	3	169	.2	1	13860	.1	15	78	47540	3940	1	7320	936	5	1190	1	570	71	1	24	1	1	22.6	124	1	1	1	25	214
46468	4.2	5700	135	3	142	.4	1	7890	1.4	14	105	43560	3980	1	4490	529	3	1720	1	660	434	2	12	1	1	22.6	743	1	1	1	20	154
46469	2.6	5870	78	1	123	.4	1	7530	2.0	10	83	22250	3620	1	2830	393	1	1140	1	1490	418	1	8	1	1	20.0	898	1	1	1	45	104
46470	2.6	7400	830	1	116	.4	1	5760	16.6	11	35	35190	3420	3	3150	411	1	1490	1	1380	215	2	7	1	1	31.8	270	1	1	1	48	204
46471	3.4	6150	593	2	127	.2	1	7840	13.2	13	23	33220	4080	1	1880	375	2	1410	1	1390	314	3	11	1	1	20.1	438	1	2	1	46	213
46472	5.4	9640	842	3	111	.5	1	3380	18.6	14	25	49290	4000	3	3230	372	3	1310	1	1060	1169	5	5	1	1	36.9	959	1	1	1	45	311
46473	7.8	5210	677	2	100	.2	1	6380	30.7	10	105	30620	3710	1	1610	305	2	1370	1	1150	572	8	13	1	1	13.7	3559	1	2	1	58	430
46474	2.2	12240	81	2	145	.6	2	4010	.1	11	27	30510	4290	8	5120	761	3	1230	1	1070	44	1	6	1	1	28.5	172	1	1	1	19	28
46475	2.1	10090	56	1	127	.8	1	4160	.1	11	19	27390	3620	5	4560	722	2	1560	1	980	35	1	7	1	1	23.8	137	2	2	1	9	24
46476	1.8	12090	14	22	129	.7	2	5760	.1	10	25	32850	3800	12	5900	915	3	1480	1	880	35	1	8	1	1	34.7	109	1	2	1	1	26
46477	2.2	10150	145	14	143	.6	1	4800	.1	17	45	42870	3990	10	3880	744	1	1220	1	1010	45	3	9	1	1	32.4	61	1	1	1	27	194
46478	2.6	8820	127	11	118	.7	2	5480	.2	13	85	34480	4070	5	4270	740	4	870	1	880	44	1	8	1	1	22.5	218	1	1	1	6	153
46479	2.3	9200	57	7	136	.7	2	9330	.1	15	21	32350	3760	5	4790	968	4	860	1	820	31	1	13	1	1	24.5	87	1	1	1	13	80
46480	1.8	9490	29	7	138	.7	2	9780	.1	11	41	30240	4070	4	5280	986	1	1120	1	1040	17	1	10	1	1	25.2	78	1	1	1	6	83
46481	1.4	5320	75	6	98	.7	1	5250	.1	13	17	34900	2830	3	4860	813	3	1160	1	1050	37	1	8	1	1	17.1	50	1	1	1	3	184
46482	1.6	8980	117	5	139	.5	1	8840	.1	10	31	29880	3970	4	5280	854	2	1360	1	1230	28	1	12	1	1	23.7	45	2	1	1	11	258
46483	1.4	7470	55	4	141	.3	1	11330	.1	8	21	24150	3430	2	4900	1002	2	960	1	1140	29	1	14	1	1	16.5	59	1	1	1	19	114
46484	1.0	12380	35	6	238	.9	1	11520	.1	9	29	31770	5430	4	4560	1061	3	1530	1	1480	19	1	16	1	1	23.5	120	2	1	1	5	8
46485	.7	7510	38	3	102	.9	1	7330	.1	9	33	22710	2590	3	2860	669	3	1150	1	1330	22	1	6	1	1	13.5	30	1	1	1	3	10
46486	.8	21330	1	6	159	.6	1	10960	.1	12	22	47050	3890	14	5750	1328	2	1310	1	1390	19	1	5	1	1	38.8	59	2	1	1	1	4
46487	1.6	11750	43	3	197	.5	1	23120	.1	11	18	21740	4840	3	2520	1098	2	2360	1	1320	27	1	13	1	1	25.6	113	2	1	1	10	20
46488	.6	15240	18	4	117	.6	2	9620	.1	10	10	34280	2700	10	4500	951	3	1980	1	1260	28	1	5	1	1	26.2	50	2	1	1	1	4
46489	3.8	7720	107	2	97	.1	3	74120	.7	10	49	27210	2490	3	2720	7913	6	1330	10	690	91	6	390	1	2	15.1	119	1	1	1	30	21
46490	1.3	13500	69	3	122	.5	2	16240	.1	12	36	35540	3000	8	4570	1347	1	1140	1	1240	56	1	24	1	1	23.6	89	2	1	1	1	86
46491	.9	14510	14	3	132	.8	2	12220	.1	10	40	33890	3180	8	4510	1130	3	1340	1	1500	27	1	19	1	1	22.0	101	1	2	1	1	19
46492	.8	9560	35	4	170	.9	1	7540	.1	13	21	28730	4310	3	3280	857	3	1030	1	1200	25	1	8	1	1	18.2	45	1	1	1	2	12
46493	.7	7720	33	4	109	.7	1	9330	.1	10	20	37910	3070	7	4030	1079	1	1060	1	1500	26	1	11	1	1	18.5	59	1	1	1	1	5
46494	.8	7010	19	2	155	.6	1	12650	.1	5	12	9150	4270	1	1780	450	1	1540	1	1190	24	2	13	1	1	15.0	53	1	1	1	39	1
46495	1.1	7970	21	3	167	.6	1	15330	.1	7	14	12300	4610	1	2230	612	1	780	1	1280	22	2	17	1	1	21.2	68	1	1	1	36	3
46496	.7	6880	19	2	158	.5	1	12660	.1	4	20	8830	4130	1	1580	492	1	320	2	1310	32	6	10	1	1	14.6	53	1	1	1	30	2
46497	1.6	6030	122	3	210	.9	1	13780	.5	10	14	23410	3670	1	3240	744	4	1240	1	1090	72	3	19	1	1	13.4	82	1	1	1	24	30
46498	2.3	8810	29	5	165	.7	1	15820	2.5	8	41	18720	4980	1	2320	804	2	1190	1	1130	428	9	29	1	1	17.9	470	1	1	1	41	26
46499	1.2	8660	41	4	205	.9	1	11580	.1	9	31	22010	4980	1	3800	904	1	1150	1	1230	38	5	16	1	1	15.7	37	2	1	1	26	8
46500	1.6	7860	73	4	535	1.0	1	10420	.1	12	53	24100	4610	1	3100	588	4	1290	1	1230	60	16	14	1	1	13.4	53	2	1	1	29	53
46501	1.1	8780	14	2	254	.6	1	15760	.1	8	15	27810	3700	3	5070	1052	1	590	1	650	36	1	14	1	1	17.6	62	1	1	1	29	13
46502	3.7	7600	73	2	230	.5	1	37150	.1	8	20	30040	3130	2	4120	1358	5	1370	1	620	64	6	32	1	1	13.9	46	2	1	1	14	50
46503	3.4	11470	48	1	151	.5	1	38600	.1	9	19	30090	2430	7	6400	1563	4	1110	2	680	49	2	44	1	1	19.3	43	3	1	1	12	31
46504	4.5	11740	64	1	154	.8	1	21660	.1	11	27	37540	2730	6	5680	851	1	850	2	900	55	5	21	1	1	20.1	76	3	1	1	9	86
46505	4.8	12530	53	1	120	.3	2	25510	.1	10	50	32720	3200	6	5840	1077	1	1460	4	900	139	4	25	1	1	21.5	112	2	1	1	16	72

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: M. REBAGLIATI/R. HASLINGER

MIN-EN LABS — ICP REPORT

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

90-38

FILE NO: OS-0718-RJ3+4
DATE: 90/10/30
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
46506	5.4	10610	50	10	122	.1	1	11790	1.0	11	180	34850	3440	6	4160	421	4	1110	3	890	416	7	9	1	1	18.6	650	1	1	1	30	70
46507	5.0	12930	44	8	113	.6	2	24110	.1	11	66	35970	3030	8	5890	818	1	1120	3	860	72	4	23	1	1	22.4	530	1	1	1	23	170
46508	2.9	14540	37	7	280	.3	2	25150	.1	11	30	34830	2570	10	6930	886	1	1280	4	920	41	3	31	1	1	22.6	73	2	1	1	15	48
46509	4.3	16840	30	8	143	.1	1	26630	3.6	12	118	43420	3210	11	7420	1046	2	1180	1	1000	61	5	28	1	1	27.8	1584	2	1	1	17	69
46510	3.0	19350	18	8	189	.2	2	27760	.1	12	34	37070	4170	11	8260	1073	2	1160	2	810	41	1	41	1	1	30.7	100	3	1	1	17	38
46511	4.4	16020	16	5	131	.1	1	20200	.1	12	39	42570	2560	11	7400	869	1	1120	6	840	59	2	26	1	1	27.7	77	1	1	1	16	54
46512	2.6	20080	27	7	534	.6	1	15290	.1	12	23	41910	4000	12	8090	614	1	1090	1	700	38	1	26	1	1	28.7	66	2	1	1	10	26
46513	2.7	22260	10	8	235	.1	2	18580	.1	15	17	58880	2870	17	9190	917	2	1060	1	960	48	1	17	1	1	52.7	93	3	1	1	10	29
46514	2.1	16060	8	5	187	.4	1	23230	.1	9	10	34100	3440	9	6170	1265	3	980	1	710	33	1	13	1	1	25.5	32	2	1	1	27	20
46515	1.9	21040	1	6	193	.1	1	17620	.1	14	12	44370	3380	14	8300	1108	4	1280	1	850	20	1	10	1	1	46.2	99	1	1	1	19	27
46516	3.2	16850	43	5	140	.1	2	18710	.1	15	19	50930	3240	10	7130	1161	6	1560	1	740	51	2	15	1	1	31.9	65	1	1	1	10	67
46517	1.8	22600	6	6	168	.1	3	19860	.1	14	10	46660	3380	14	9870	1206	3	690	1	1090	29	1	14	1	1	43.4	85	2	1	1	9	19
46518	1.2	17800	6	5	161	.4	2	18860	.1	9	7	32570	3480	9	6590	888	1	770	1	1030	23	1	13	1	1	38.3	93	1	1	1	12	13
46519	1.7	21340	6	6	167	.1	1	22840	.1	13	11	42170	3500	12	8100	1218	1	230	1	1580	18	1	18	1	1	52.5	94	3	1	1	22	9
46520	3.2	14080	74	5	158	.1	1	11270	.1	15	24	48600	3730	6	3900	597	3	1110	1	850	40	2	9	1	1	27.5	54	1	1	1	10	97
46521	.8	14680	27	3	202	.8	1	4200	.1	14	8	21980	3610	7	4480	454	2	820	2	210	13	1	5	1	1	33.5	27	2	1	1	14	2
46522	1.0	16060	1	3	192	.6	1	13300	.1	9	39	24310	3640	8	5090	767	3	220	1	370	8	1	4	1	1	30.7	127	2	1	1	17	12
46523	.9	19270	29	4	172	.3	1	5730	.1	8	24	32710	3470	10	6810	735	2	170	1	180	18	1	5	1	1	28.8	57	3	1	1	12	6
46524	1.6	25790	25	8	196	.1	1	10480	.1	23	50	68930	3290	17	9930	1237	1	160	1	320	32	1	4	1	1	39.8	195	3	1	1	3	48
46525	.8	16690	28	4	235	1.1	1	5990	.1	6	10	20790	5410	5	4120	505	4	100	1	440	13	1	5	1	1	20.1	28	2	1	1	3	2
46526	2.1	21880	94	6	206	.1	2	18480	.1	15	199	65820	2770	14	8170	1607	1	200	1	460	29	1	6	1	1	41.6	340	1	1	1	13	43
46527	1.7	27510	26	7	133	.1	2	16000	.1	17	30	77380	3140	18	10140	1666	1	90	1	320	35	1	6	1	1	41.2	65	4	2	1	1	7
46528	.7	17850	4	4	221	.6	1	9840	.1	9	10	26610	4500	7	5330	855	3	90	1	320	14	1	4	1	1	19.2	37	2	1	1	3	3
46529	.8	14660	7	3	222	.8	2	5180	.1	8	13	19370	4890	4	3650	524	3	70	1	130	13	1	4	1	1	16.2	27	1	1	1	6	2
46530	1.2	9190	54	2	160	.3	1	7650	2.4	10	25	21930	3600	2	2090	485	1	50	1	80	14	1	5	1	1	20.9	33	1	1	1	8	74
46531	1.4	6420	105	1	151	.3	1	18030	.9	5	18	13960	3560	1	700	823	2	50	3	90	20	2	20	1	1	20.0	4	1	1	1	49	114
46532	1.0	21160	53	5	136	.4	2	7810	.1	11	29	50610	3320	11	7780	1125	1	60	1	250	31	1	4	1	1	27.5	46	1	1	1	1	35
46533	1.0	17670	42	3	158	.7	2	7030	.1	9	19	34520	3480	9	6000	931	1	50	1	180	13	1	4	1	1	21.2	39	1	1	1	4	29
46534	.8	14840	32	2	158	.8	1	7230	.1	12	19	28330	3330	7	5020	858	2	40	1	150	23	1	4	1	1	13.8	38	1	1	1	1	8
46535	.8	14520	8	2	119	.7	2	7710	.1	13	14	27880	2710	8	5100	914	3	30	1	120	12	1	4	1	1	13.9	38	1	3	1	1	9
46536	1.0	12310	1	15	162	.6	2	8530	.1	7	10	18340	3860	10	3350	658	2	160	1	450	22	1	5	1	1	32.1	31	1	1	1	8	5
46537	1.1	9760	40	9	137	.9	1	6760	.1	9	43	14870	3200	6	2650	530	3	80	3	180	21	1	5	1	1	13.9	23	1	1	1	5	26
46538	1.2	11220	76	7	199	.6	1	6840	.1	8	120	21370	4670	4	2530	533	1	70	1	180	49	1	6	1	1	15.6	32	1	1	1	2	53
46539	3.0	13940	119	6	237	.6	1	13780	4.6	9	356	41100	3460	7	5090	1086	2	70	1	210	494	2	8	1	1	21.3	692	2	1	1	8	210
46540	1.9	19270	73	8	179	.6	1	11520	.1	11	263	52290	3600	11	7580	1266	2	80	1	180	45	1	4	1	1	23.6	54	2	2	1	1	244
46541	1.7	21170	80	7	167	.9	2	10850	.1	17	48	52270	3960	12	7960	1335	2	60	1	190	57	1	4	1	1	24.5	68	2	1	1	1	79
46542	1.4	16440	9	6	181	.7	1	10630	.1	8	98	32880	4440	7	5470	1050	2	60	1	180	23	1	8	1	1	19.3	35	3	1	1	.1	58
46543	2.8	13610	61	4	141	1.2	1	6980	.1	14	416	41720	3300	6	5310	872	1	80	1	230	26	1	7	1	1	23.4	46	2	1	1	1	69
46544	1.7	9000	131	4	150	.2	1	13780	.1	11	86	39780	3900	2	2580	742	1	210	1	1020	20	1	8	1	1	21.4	13	1	1	1	12	98
46545	2.3	6410	168	3	188	.1	1	13470	.7	17	154	26440	3770	1	900	452	1	270	1	1140	29	2	16	1	1	14.7	7	1	1	1	34	238
46546	1.5	9260	196	4	212	.3	1	13220	1.3	12	39	34390	5460	1	830	401	1	390	1	1360	29	1	20	1	1	23.2	5	1	1	1	52	336
46547	3.3	5420	245	3	160	.2	1	19390	1.3	16	24	34360	3560	1	600	627	4	600	1	520	64	8	43	1	1	12.5	5	1	1	1	33	248
46548	2.5	6070	116	2	318	.2	1	22290	1.5	9	12	19190	3880	1	600	922	1	940	1	270	51	2	77	1	1	19.6	10	1	1	3	84	122
46549	1.2	6150	314	2	244	.5	1	3240	4.3	7	14	27430	3870	1	740	125	1	1190	1	270	55	2	9	1	1	15.1	10	1	1	1	21	417
46550	1.0	6310	146	2	189	.4	1	4020	1.4	6	11	18880	3850	1	730	152	1	660	1	390	30	1	9	1	1	16.6	35	1	1	1	26	222
46551	6.3	4830	340	4	139	.3	2	7730	2.6	32	29	41030	3130	1	1050	331	9	1010	1	320	73	11	16	1	1	11.3	6	1	1	1	16	556
46552	5.2	5670	284	5	137	.1	1	18600	1.2	28	30	42960	3640	1	2150	1186	9	850	1	340	91	9	19	1	1	9.9	10	1	1	1	29	475
46553	3.3	7790	255	4	168	.8	1	6920	2.5	19	17	34150	4630	1	1060	288	4	1010	1	390	83	5	12	1	1	25.0	16	1	1	1	32	330
46554	5.7	6660	243	4	120	.5	1	11530	4.4	23	26	35730	4020	1	1150	472	5	1240	1	430	74	8	21	1	1	21.7	1	1	1	1	15	292
46555	5.2	4790	622	3	75	.1	1	14470	8.0	16	33	54400	3090	1	740	646	3	1360	1	410	97	13	8	1	1	13.3	226	1	1	1	23	1380
46556	1.7	5860	243	3	150	.4	1	3190	.7	9	13	36090	3600	1	720	104	1	780	1	380	48	2	8	1	1	16.1	6	1	1	1	13	352
46557	1.7	6480	143	1	190	.6	1	4880	.2	10	10	17480	3830	1	650	136	4	620	1	420	34	2	9	1	1	17.4	6	1	1	1	19	294

MIN
• EN
LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

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90-38

Assay Certificate

OS-0718-RA1

Company: COASTAL MOUNTAIN ENGINEERING
Project: SIB
Attn: M. REBAGLIATI/R. HASLINGER

Date: OCT-30-90
Copy 1. COASTAL MOUNTAIN, VANCOUVER, B.C.
2. R. HASLINGER, VANCOUVER, B.C.

We hereby certify the following Assay of 1 CORE samples submitted OCT-22-90 by GUY LEPAGE.

Sample Number	AU g/tonne	AU oz/ton
46555	1.43	.042

Certified by

MIN-EN LABORATORIES

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-39

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 104B/9	CLAIM #	: SIB 9		
LOCAL GRID	: 10583.76 N / 9608.89 E	GLOBAL GRID	: 14831.38 N / 18438.59 E	ELEVATION	: 1079.10 metres
LENGTH	: 112.17 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 117.0 degrees
OVERBURDEN	: 2.97 m	CASING	: 2.97 metres, casing left in hole.		
LOGGED BY	: Guy LePage	DRILLED BY	: J.T. Thomas	ASSAYING BY	: Min-En Labs
DATE LOGGED	: 1990/10/16 Y/M/D	DATE DRILLED	: 1990/10/13 Y/M/D	CORE LOCATION	: 101+00 N, 98+00
				SAMPLE NO. SERIES	: 46558-46612

ACID TESTS

Depth	Dip	Azimuth
112.17	-42.0	117.0

SUMMARY LOG 90-39

From(m)	To(m)	Field Name (Legend)
0.00	2.97	CASING
2.97	4.51	MUDSTONE (UNIT 22)
4.51	5.74	WACKE (UNIT 22)
5.74	6.76	MUDSTONE (UNIT 22)
6.76	8.53	WACKE (UNIT 22)
8.53	108.12	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21)
108.12	110.60	SILTSTONE-SANDSTONE(DYKE-32) (UNIT 21)
110.60	112.17	ALTERED VOLCANIC FRAGMENTAL (UNIT 21)
112.17		END OF HOLE.

SUMMARY LOG 90-39

No significant results.

From(m)	To(m)	Description
0.00	2.97	CASING
2.97	4.51	MUDSTONE (UNIT 22) Composition Mudstone: Black to greenish black, argillaceous, bedding defined by alternating syngenetic pyritic and pale grey siliceous beds occuring as discrete lenses and blebs and tightly folded slumped layers. Structure Massive: Generally undeformed. Mineralization Pyrite: 5 to 10%. Both fine grained pyritic beds and also as late stage blebs and disseminations(ratio 1 to 10).
4.51	5.74	WACKE (UNIT 22) Composition Matrix: Greyish white to grey, siliceous. Clasts: 10 to 25%. Angular, green to dark green, sericitic, average 2 to 3mm in width. Argillite: 3 to 5%. Black argillaceous clasts averaging 2 to 3mm in width. Structure Massive: Undeformed. Mineralization Pyrite: 5 to 10%. Blebs and veinlets associated with the interstitial grey siliceous matrix.
5.74	6.76	MUDSTONE (UNIT 22) Composition Mudstone: Similar to 2.97 to 4.51. Mineralization Pyrite: 5 to 10%. Slight increase in the ratio of secondary pyritic blebs overprinting syngenetic pyrite(ratio 4 to 1).
6.76	8.53	WACKE (UNIT 22) Composition Wacke: Similar to 4.57 to 3.74 metres. Mineralization Unknown: In both the mudstone and wacke an unidentified silver grey mineral occurs in association with both syngenetic but mostly secondary pyritic blebs and disseminations. Mostly occurs as clusters and disseminations.

From(m)	To(m)	Description
8.53	108.12	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21) Alteration Sericitic-siliceous: Pale green to greyish green pervasive alteration from 22.50 to 55.00 metres. Veins and Sub-Intervals <8.53>-<22.00>: Black to grey black, aphanitic, massive groundmass containing 15 to 20% angular to sub-angular pink to grey pink cherty clasts average 3 to 5mm in width. Cross cut by a calcite-argillite breccia from 19.55 to 20.00 metres oriented at 15 degrees to core axis containing 2 to 3% pyrite blebs. For the interval pyrite(1 to 2%) as disseminations. <21.37>-<22.06>: Calcite-quartz Veining. Core axis angle 15 degrees. Vein array enclosing brecciated argillaceous fragments and also enclosing flattened and oriented pyritic blebs(4 to 5%). <22.00>-<55.00>: A higher proportion of siliceous fragments(fragments supported) set in a fine grained(argillaceous) black to grey siliceous matrix. Fragments range from sub-rounded to angular with an average width of 2.5 to 3.0cm(range from 1 to 10cm) with their long axis occasionally defining bedding at 60 to 65 degrees to core axis. Pyrite 1 to 2%. <28.53>-<28.56>: Argillite interbedded at 45 degrees to core axis. <30.53>-<30.62>: Calcareous blebs. <30.62>-<53.00>: Cherty, well banded clasts become more distinct, less silicification. <55.00>-<55.51>: Increase in clasts(60 to 70%), white grey to pale grey, cherty, set in a greyish black to black aphanitic siliceous groundmass. Bedding oriented at 60 degrees to core axis. Pyrite trace to 0.5% as elongate blebs and juxtaposing clasts roughly oriented parallel to bedding. <55.51>-<77.81>: 50 to 70% cherty and lesser silicified tuffaceous clasts ranging from pale green(siliceous-sericitic) to off white(albitized-silicified) alteration assemblege. Calcite+-iron carbonate tension gashes(0.5 to 40mm with an average of 1.0 to 2.0mm in width oriented at 45 to 70 degrees to core axis, frequency >50 per metre. Trace pyrite.

From(m) To(m) ----------Description----------

<77.81>-<82.00>: 60 to 70% clasts. Closer packing with long axis defining bedding at 50 to 60 degrees to core axis, set in a pale grey to green grey aphanitic matrix. Planar orientation suggests interval is healed fault. Clasts exhibit pale green to tl coarse-green soft sericite alteration. Pyrite 0.5 to 1.0% as occasional oriented blebs.
<82.00>-<99.80>: Similar to 55.51 to 77.81 metres.
<99.80>-<103.30>: FAULT ZONE. Angular to sub-angular, strongly sericitized and silicified chert clasts, average 2.0 to 2.5mm in width(range 1.0 to 8.0cm), set in pale green to green grey grading to black argillaceous mudstone(over 10 to 15cm) fine grained matrix. Annealed chlorite/sericite shears oriented from 45 to 20 degrees to core axis.
<103.30>-<108.12>: Similar to 55.57 to 77.81 metres.

108.12 110.60 SILTSTONE-SANDSTONE(DYKE-32) (UNIT 21)
Composition
Mudstone: Grey to greyish blue silt-mudstone.
Clasts: 10 to 15%. Siliceous(cherty) to tuffaceous, angular, 1 to 4mm in width(average 10 to 15mm).
Mineralization
Pyrite: 2 to 3%. Towards the lower contact pyrite occurs as a net vein stockwork array(massive or associated with calcite).
Veins
Quartz-calcite-argillite Veining. Core axis angle 5 to 10 degrees. Vein and vein breccia array from 1.0mm to 3.0cm in width(average 8 to 10mm).

110.60 112.17 ALTERED VOLCANIC FRAGMENTAL (UNIT 21)
Composition
Lithology: Similar to above.

112.17 END OF HOLE.

Hole No.: 90-39

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
46558	2.97	3.47	.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46559	3.47	4.00	.53	-	-	4	-	-	2.6	69	131	217	11.2	33950	31	43	14	795
46560	4.00	4.51	.51	-	-	16	-	-	1.5	41	72	70	1.7	29080	33	26	11	359
46561	4.51	5.00	.49	-	-	10	-	-	1.7	12	44	47	.1	37030	45	32	5	89
46562	5.00	5.74	.74	-	-	9	-	-	1.6	8	47	49	.1	26170	42	26	1	135
46563	5.74	6.22	.48	-	-	15	-	-	1.1	41	92	49	2.2	16560	41	32	13	484
46564	6.22	6.76	.54	-	-	18	-	-	1.1	41	141	53	2.5	27350	56	25	16	402
46565	6.76	7.50	.74	-	-	20	-	-	1.5	11	84	38	.1	47090	152	29	8	111
46566	7.50	8.53	1.03	-	-	11	-	-	1.0	6	49	58	.1	16630	42	24	2	112
46567	8.53	10.00	1.47	-	-	9	-	-	.8	5	30	51	.1	8960	6	26	1	89
46568	10.00	11.81	1.81	-	-	12	-	-	.8	6	28	57	.1	7890	5	29	1	86
46569	11.81	13.30	1.49	-	-	10	-	-	.5	5	42	59	.1	8390	4	28	1	90
46570	13.30	15.00	1.70	-	-	6	-	-	.8	7	41	55	.5	8340	4	26	1	99
46571	15.00	17.00	2.00	-	-	6	-	-	.6	5	43	61	.1	6930	4	23	1	89
46572	17.00	19.55	2.55	-	-	9	-	-	.9	7	49	49	.1	8090	7	30	2	108
46573	19.55	20.06	.51	-	-	9	-	-	1.5	10	46	27	.1	11210	7	26	4	116
46574	20.06	21.37	1.31	-	-	12	-	-	.9	9	29	51	.1	10180	6	32	1	128
46575	21.37	22.06	.69	-	-	5	-	-	1.5	6	10	20	.1	12870	2	30	2	74
46576	22.06	22.96	.90	-	-	11	-	-	.7	10	57	21	.1	11290	2	49	1	110
46577	22.96	25.00	2.04	-	-	5	-	-	.6	5	26	22	.1	8390	2	23	1	94
46578	25.00	28.00	3.00	-	-	2	-	-	.9	6	63	35	.1	9870	1	33	1	114
46579	28.00	31.00	3.00	-	-	8	-	-	1.1	7	54	37	.1	9320	2	35	1	94
46580	31.00	34.00	3.00	-	-	6	-	-	.6	6	30	33	.1	8300	1	31	1	92
46581	34.00	37.00	3.00	-	-	2	-	-	.7	6	42	26	.1	9490	2	35	1	91
46582	37.00	40.00	3.00	-	-	4	-	-	.9	4	38	29	.1	11810	2	32	1	132
46583	40.00	43.00	3.00	-	-	3	-	-	.6	9	68	37	.1	11600	2	33	1	113
46584	43.00	46.00	3.00	-	-	5	-	-	.8	4	56	33	.1	9420	2	24	1	120
46585	46.00	49.00	3.00	-	-	3	-	-	.6	6	59	31	.1	8320	1	31	1	99
46586	49.00	52.00	3.00	-	-	3	-	-	.8	7	40	50	.1	9850	2	34	1	105
46587	52.00	55.00	3.00	-	-	3	-	-	.5	8	59	32	.1	9500	2	30	1	90
46588	55.00	58.00	3.00	-	-	4	-	-	.8	4	1	45	.6	9930	1	38	1	133
46589	58.00	61.00	3.00	-	-	5	-	-	.4	6	7	39	.1	7550	1	27	1	103
46590	61.00	64.00	3.00	-	-	2	-	-	.6	4	49	40	1.4	6640	1	30	1	77
46591	64.00	67.00	3.00	-	-	2	-	-	.7	4	39	45	.2	9690	3	30	1	98
46592	67.00	70.00	3.00	-	-	13	-	-	.4	5	59	43	.5	9040	3	38	2	105
46593	70.00	73.00	3.00	-	-	2	-	-	.5	3	4	31	.5	9080	2	33	1	106
46594	73.00	76.00	3.00	-	-	3	-	-	.6	4	37	29	.8	8380	2	32	1	110
46595	76.00	77.81	1.81	-	-	2	-	-	1.0	6	22	27	.2	9800	2	25	1	79
46596	77.81	79.70	1.89	-	-	22	-	-	.8	5	12	45	.1	9710	3	36	1	86
46597	79.70	82.00	2.30	-	-	2	-	-	.6	6	24	36	1.3	8390	3	38	1	118
46598	82.00	85.00	3.00	-	-	2	-	-	.7	5	57	34	.4	10810	2	32	1	146
46599	85.00	88.00	3.00	-	-	2	-	-	.7	5	1	38	.1	10680	2	27	1	105
46600	88.00	91.00	3.00	-	-	2	-	-	.7	7	32	29	.1	9770	2	27	1	114
46601	91.00	94.00	3.00	-	-	2	-	-	.7	5	38	32	.2	9160	1	27	1	111
46602	94.00	97.00	3.00	-	-	26	-	-	.6	3	15	34	1.3	8790	2	31	1	76
46603	97.00	100.00	3.00	-	-	2	-	-	.6	4	1	28	.7	8070	2	29	1	119
46604	100.00	102.25	2.25	-	-	2	-	-	.7	5	1	35	.1	7750	1	30	1	117
46605	102.25	102.61	.36	-	-	2	-	-	1.1	5	1	33	.1	15200	1	31	1	162
46606	102.61	103.30	.69	-	-	4	-	-	1.7	9	1	109	.1	14960	2	18	1	106
46607	103.30	106.00	2.70	-	-	4	-	-	.7	6	46	45	.1	9150	3	21	1	108

Hole No.: 90-39

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
46608	106.00	108.12	2.12	-	-	8	-	-	.8	4	1	45	.1	13600	4	33	1	111
46609	108.12	109.12	1.00	-	-	2	-	-	1.8	39	78	51	.1	32470	31	28	17	98
46610	109.12	110.12	1.00	-	-	27	-	-	2.7	41	116	37	.1	40390	45	15	7	91
46611	110.12	110.60	.48	-	-	2	-	-	2.4	45	58	36	.1	34320	57	24	9	127
46612	110.60	112.17	1.57	-	-	6	-	-	1.0	7	27	37	.7	11650	2	22	1	85

COMP: COASTAL MTN.ENGRG.
PROJ: SIB
ATTN: M.REBAGLAITI/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-39

FILE NO: OS-0717-RJ1+2
DATE: 90/10/29
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
46559	2.6	16600	131	26	217	1.6	2	21940	11.2	11	69	33950	5110	24	6750	462	31	180	56	10740	43	14	43	1	1	126.9	795	1	1	1	28	4
46560	1.5	11930	72	15	70	1.3	1	11880	1.7	9	41	29080	3710	14	5010	403	33	190	51	2930	26	11	11	1	1	64.5	359	1	1	1	53	16
46561	1.7	11000	44	11	47	1.2	2	26170	.1	5	12	37030	5040	9	3600	1077	45	100	1	170	32	5	1	1	1	6.1	89	1	1	1	38	10
46562	1.6	12520	47	11	49	3.0	1	20060	.1	4	8	26170	4820	11	5060	855	42	60	3	70	26	1	2	1	1	4.3	135	1	1	1	25	9
46563	1.1	6540	92	7	49	.9	1	7280	2.2	6	41	16560	2960	4	1860	184	41	150	44	1500	32	13	6	1	1	45.9	484	1	1	1	138	15
46564	1.1	4680	141	6	53	.6	1	7380	2.5	8	41	27350	2460	2	1160	176	56	220	90	2090	25	16	8	1	1	48.9	402	1	1	2	178	18
46565	1.5	7120	84	9	38	1.8	1	10400	.1	6	11	47090	3880	5	2070	224	152	90	1	70	29	8	3	1	1	4.6	111	1	3	1	51	20
46566	1.0	7100	49	5	58	2.3	1	4780	.1	2	6	16630	4060	4	2390	193	42	100	2	40	24	2	3	1	1	1.9	112	1	1	1	73	11
46567	.8	5170	30	3	51	1.5	1	5710	.1	2	5	8960	3240	3	1530	196	6	290	3	60	26	1	2	1	1	1.8	89	1	1	1	118	9
46568	.8	5180	28	3	57	1.7	1	3580	.1	2	6	7890	3640	2	810	149	5	250	7	40	29	1	2	1	1	1.7	86	1	1	1	129	12
46569	.5	5600	42	2	59	1.8	2	930	.1	2	5	8390	3880	3	590	97	4	350	3	20	28	1	2	1	1	1.6	90	1	1	1	145	10
46570	.8	4790	41	2	55	1.6	1	6330	.5	2	7	8340	3380	3	560	158	4	220	8	30	26	1	1	1	1	1.9	99	1	1	1	144	6
46571	.6	5540	43	2	61	1.8	1	3910	.1	2	5	6930	4380	3	440	122	4	260	6	10	23	1	1	1	1	1.8	89	1	1	1	118	6
46572	.9	5670	49	2	49	1.9	1	6370	.1	2	7	8090	4510	4	430	207	7	180	13	30	30	2	1	1	1	2.0	108	1	1	1	129	9
46573	1.5	5910	46	2	27	2.0	2	19960	.1	2	10	11210	4280	5	850	576	7	130	19	40	26	4	14	1	1	3.7	116	1	1	1	112	9
46574	.9	6660	29	2	51	3.6	2	4760	.1	2	9	10180	4510	5	750	182	6	190	14	100	32	1	2	1	1	2.1	128	1	1	2	156	12
46575	1.5	5180	10	1	20	1.3	2	30990	.1	2	6	12870	1750	7	1630	1326	2	210	5	80	30	2	31	1	1	3.4	74	1	1	1	73	5
46576	.7	3180	57	1	21	.3	1	3080	.1	2	10	11290	1200	4	740	169	2	600	7	10	49	1	2	1	1	1.5	110	1	1	2	172	11
46577	.6	3420	26	1	22	.5	1	1040	.1	2	5	8390	1230	4	850	155	2	400	3	20	23	1	1	1	1	1.3	94	1	1	1	132	5
46578	.9	2800	63	4	35	.5	1	3540	.1	2	6	9870	1540	2	890	277	1	570	4	10	33	1	2	1	1	1.4	114	1	1	2	177	2
46579	1.1	3890	54	1	37	1.3	1	8570	.1	2	7	9320	2630	2	970	319	2	440	7	1030	35	1	5	1	1	1.9	94	1	1	2	161	8
46580	.6	2810	30	1	33	.7	1	1700	.1	2	6	8300	1340	3	840	177	1	420	3	30	31	1	2	1	1	1.2	92	1	1	1	125	6
46581	.7	4180	42	1	26	1.5	1	1140	.1	2	6	9490	1830	5	1150	197	2	450	5	50	35	1	1	1	1	1.5	91	1	1	2	158	2
46582	.9	9150	38	3	29	1.9	2	4480	.1	2	4	11810	4380	8	2170	294	2	190	1	50	32	1	1	1	1	1.6	132	2	1	1	86	4
46583	.6	3790	68	1	37	1.0	2	2090	.1	2	9	11600	1700	4	1370	251	2	510	5	70	33	1	3	1	1	1.7	113	1	1	2	222	3
46584	.8	3660	56	1	33	1.1	2	2410	.1	2	4	9420	2060	4	1470	249	2	350	1	60	24	1	3	1	1	1.4	120	1	1	1	112	5
46585	.6	3470	59	1	31	.7	1	4410	.1	2	6	8320	2300	3	1100	231	1	380	6	160	31	1	3	1	1	1.5	99	1	1	1	143	3
46586	.8	2950	40	1	50	1.0	1	2100	.1	2	7	9850	1650	3	1270	242	2	510	5	10	34	1	3	1	1	1.6	105	1	1	1	129	3
46587	.5	2720	59	1	32	1.2	1	1520	.1	2	8	9500	1540	3	1190	211	2	580	5	20	30	1	3	1	1	1.7	90	1	1	2	190	3
46588	.8	3800	1	17	45	1.5	1	2890	.6	2	4	9930	2690	6	1970	294	1	250	2	40	38	1	4	1	1	1.3	133	1	1	1	124	4
46589	.4	2400	7	10	39	.7	1	2720	.1	1	6	7550	1730	3	1450	195	1	410	3	50	27	1	4	1	1	1.0	103	1	1	1	117	5
46590	.6	3300	49	8	40	1.1	1	2190	1.4	1	4	6640	2340	5	1330	144	1	300	6	10	30	1	4	1	1	1.0	77	1	1	2	181	2
46591	.7	4000	39	7	45	1.4	1	4420	.2	2	4	9690	2390	5	2420	253	3	360	1	20	30	1	6	1	1	1.3	98	1	1	1	124	2
46592	.4	3410	59	8	43	1.2	1	4030	.5	1	5	9040	2020	2	1820	207	3	330	6	10	38	2	8	1	1	1.3	105	1	1	2	210	13
46593	.5	5890	4	6	31	2.0	1	3340	.5	1	3	9080	3980	6	2430	232	2	290	1	50	33	1	7	1	1	1.3	106	1	1	1	102	2
46594	.6	4320	37	4	29	1.5	1	2150	.8	2	4	8380	2810	4	1850	204	2	430	6	20	32	1	5	1	1	1.3	110	1	1	2	194	3
46595	1.0	3470	22	3	27	1.5	1	3810	.2	2	6	9800	2020	3	2860	315	2	550	1	20	25	1	8	1	1	1.6	79	1	1	2	164	2
46596	.8	5500	12	5	45	1.6	1	8630	.1	2	5	9710	3400	3	3340	261	3	360	2	110	36	1	12	1	1	2.3	86	1	1	1	100	22
46597	.6	4590	24	4	36	1.2	1	5830	1.3	2	6	8390	2830	3	2690	230	3	520	3	30	38	1	9	1	1	1.5	118	1	1	1	160	2
46598	.7	5000	57	4	34	1.4	1	3690	.4	2	5	10810	2830	4	2900	266	2	450	4	30	32	1	7	1	1	1.3	146	1	1	2	193	2
46599	.7	5990	1	5	38	1.8	1	4880	.1	2	5	10680	3660	4	3340	244	2	490	1	20	27	1	9	1	1	1.5	105	1	1	1	114	2
46600	.7	4850	32	4	29	1.3	1	4720	.1	1	7	9770	2950	3	2790	230	2	450	3	40	27	1	8	1	1	1.2	114	1	1	2	179	2
46601	.7	3620	38	3	32	1.1	1	4850	.2	1	5	9160	2370	2	2880	218	1	400	1	40	27	1	8	1	1	1.2	111	1	1	1	102	2
46602	.6	4140	15	4	34	1.2	1	5540	1.3	2	3	8790	2480	2	2610	259	2	520	4	20	31	1	9	1	1	1.2	76	1	1	2	177	26
46603	.6	4630	1	3	28	1.8	1	6720	.7	1	4	8070	3020	3	2930	239	2	280	1	180	29	1	10	1	1	1.1	119	1	1	1	76	2
46604	.7	10520	1	7	35	3.6	1	9450	.1	1	5	7750	6390	6	3540	297	1	120	2	1150	30	1	12	1	1	2.1	117	1	1	1	62	2
46605	1.1	12320	1	8	33	5.7	1	4800	.1	3	5	15200	7250	7	4780	415	1	90	1	290	31	1	8	2	1	1.9	162	1	1	1	13	2
46606	1.7	24750	1	17	109	6.1	2	19680	.1	6	9	14960	13870	13	7060	489	2	140	8	6010	18	1	33	1	1	23.4	106	2	1	1	53	4
46607	.7	5750	46	3	45	1.9	1	6510	.1	2	6	9150	3550	4	3850	200	3	330	2	70	21	1	9	1	1	1.9	108	1	1	1	140	4
46608	.8	7760	1	3	45	3.5	1	6600	.1	2	4	13600	4720	5	4840	295	4	210	2	90	33	1	8	1	1	2.4	111	1	1	1	119	8
46609	1.8	8250	78	7	51	2.3	1	22980	.1	36	39	32470	3820	5	8150	797	31	480	55	3720	28	17	26	1	1	115.6	98	1	1	1	99	2
46610	2.7	16050	116	7	37	1.6	1	48570	.1	37	41	40390	3910	18	13270	1523	45	310	48	2840	15	7	61	1	1	162.3	91	2	1	2	129	27
46611	2.4	15730	58	5	36	2.1	2	32830	.1	37	45	34320	4180	18	10500	1184	57	310	50	2690	24	9	23	1	1	144.3	127	2	1	2	131	2
46612	1.0	5640	27	2	37	2.3	1	11130	.7	3	7	11650	2800	4	3720	354	2	170	4	140	22	1	13	1	1	6.4	85	1	1	1	147	6

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-40

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 1048/9 CLAIM # : SIB 6
LOCAL GRID : 10580.96 N / 9723.00 E GLOBAL GRID : 14777.52 N / 18539.22 E ELEVATION : 1130.32 metres
LENGTH : 194.76 m INCLINATION : -45.0 degrees AZIMUTH : 117.0 degrees
OVERBURDEN : 6.84 m CASING : 6.84 metres, casing left in hole.
LOGGED BY : Guy LePage DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs
DATE LOGGED : 1990/10/20 DATE DRILLED : 1990/10/15 CORE LOCATION : 101+00 N, 9
Y/M/D Y/M/D SAMPLE NO. SERIES : 46705-46811

ACID TESTS

Depth	Dip	Azimuth
194.76	-39.5	117.0

SUMMARY LOG 90-40

From(m)	To(m)	Field Name (Legend)
0.00	6.84	CASING
6.84	12.09	ARGILLACEOUS MUDSTONE (UNIT 22)
12.09	29.44	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21)
29.44	57.41	SANDSTONE (DYKE-32) (UNIT 21)
57.41	79.05	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21)
79.05	87.31	MOTTLED SANDSTONE (DYKE 32) (UNIT 21)
87.31	104.75	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21)
104.75	106.26	SANDSTONE (DYKE-32) (UNIT 21)
106.26	112.73	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21)
112.73	151.90	MUDSTONE (+-SANDSTONE) (UNIT 12)
151.90	153.08	SANDSTONE-WACKE (UNIT 14)
153.08	164.83	ARGILLACEOUS MUDSTONE (UNIT 12)
164.83	173.60	SANDSTONE (UNIT 14)
173.60	182.63	CONGLOMERATE (UNIT 13)
182.63	194.76	AMYGDALOIDAL PLAGIOCLASE PORPHYRY FLOW (UNIT 11)
194.76		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-40

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
183.02	186.00	2.98	0.027			

From(m)	To(m)	Description
0.00	6.84	CASING
6.84	12.09	ARGILLACEOUS MUDSTONE (UNIT 22) Composition Mudstone: Fine grained, black, graphitic. Structure Bedding: Sub-parallel to 20 degrees to core axis, defined by greyish black silty and syngenetic pyritic beds. Shearing: 20 to 30 degrees to core axis. Planar deformation, locally graphite. Mineralization Pyrite: 2 to 3%. Syngenetic, fine grained pyritic laminae form discrete often folded beds 0.5 to 20mm in width(average 2 to 3mm), >50 per metre. Veins <8.77>-<12.09>: Quartz-calcite Veining. Post dates mineralization.
12.09	29.44	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21) Composition Fragments: 70 to 80%. Pale green, siliceous-sericitic, sub-angular to angular, volcanic. Matrix: Fine grained, black to grey black, aphanitic,cherty. Structure Jointing: Oriented at 45, 80 and 20 degrees to core axis. Veins Milky quartz-iron carbonate Veining. Core axis angle variable. Range from 0.5 to 10mm in width, average 2 to 3mm in width, frequency 10 to 15 per metre. <28.05>-<29.44>: Siliceous-stockwork Veining. Pale grey to bluish grey, 30 to 40cm of pyrite as selvedges within the stockwork, quartz-pyrite-calcite, pyrite(3 to 4%).
29.44	57.41	SANDSTONE (DYKE-32) (UNIT 21) Plagioclase Phenocrysts: Subhedral, av0.5 to 0.8mm in width, 25 to 30% of the unit. Composition Groundmass: Fine grained, pinkish grey to pink, aphanitic. Sericite: 10 to 15%. Clasts average 2.0mm in width, give mottled texture.

From(m) To(m) ----------Description----------

Structure
Massive:
Jointing: variable.
Alteration
Carbonitized: Strong. 15 to 20%.
Mineralization
Pyrite: Trace to 1%. Clusters and disseminations.
Veins and Sub-Intervals
<29.44>-<34.00>: Quartz-carbonate Veining. Core axis angle variable to 45 degrees. Range from 0.5 to 6.0cm in width(average 2 to 3mm).
<39.70>-<40.12>: Calcite-quartz-stockwork Veining. With 2 to 3% pyrite.
<48.80>-<57.44>: Unit is post-dated by a green grey siliceous stockwork(barren), 5 to 10%. The sandstone loses its mottled texture(ie, lose of sericite blebs).

57.41 79.05 ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21)
Composition
Fragments: Angular, to sub-angular, pale green, cherty, range from 1.0mm to 5cm in width(average 20 to 25mm), a number of fragments show a parallel alignment of their long axis at 50 to 55 degrees to core axis throughout.
Matrix: Fine grained, pale green to blackish green, siliceous-sericitic.
Structure
Jointing: 45 to 50 degrees to core axis.
Mineralization
Pyrite: 1 to 2%. 57.41 to 59.21 metres. Pyrite associated with the calcite-quartz stockwork and veins array as disseminations within. Rare massive veins oriented at 10 to 15 degrees to core axis, 1 to 1.5mm in width, frequency 1 per metre.
Pyrite: Trace. 59.21 to 78.00 metres. As rare disseminations.
Pyrite: Trace to 1%. 78.00 to 79.10 metres. As selvedges within the bluish grey to pinkish grey stockwork.
Veins and Sub-Intervals
Milky quartz-calcite Veining. Core axis angle variable to 40 degrees. Frequency 10 per metre.
<75.50>-<79.05>: Siliceous-stockwork Veining. Bluish grey to pinkish grey siliceous stockwork(1 to 2%).
<78.82>-<79.10>: Amygdaloidal.

From(m)	To(m)	Description
79.05	87.31	MOTTLED SANDSTONE (DYKE 32) (UNIT 21) Composition Sandstone: Subhedral plagioclase and lesser quartz set in a fine grained, pinkish grey, aphanitic groundmass. Also contains mottled sericitic blebs averaging 2 to 3mm in width. Similar to 29.44 to 57.41 metres. Structure Massive: Jointing: variable. Alteration Carbonitized: Strong. 15 to 20% throughout. Mineralization Pyrite: 2 to 3%. From 79.05 to 83.00 metres. Associated with a siliceous pale green stockwork. Pyrite: Trace. From 83.00 to 87.31 metres. As rare disseminations. Veins Quartz-calcite Veining. Core axis angle 60 to 40 degrees. Post date unit, average 1.0 to 1.5mm in width.
87.31	104.75	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21) Composition Lithology: Similar to 57.41 to 79.05 metres. Veins and Sub-Intervals <87.31>-<89.20>: Well brecciated and post dated by a quartz-calcite stockwork in turn overprinted by a pyritic stockwork and vein array. Pyrite 3 to 4% as disseminations and clusters. <89.20>-<104.75>: Post dated by a siliceous to calcitic and milky quartz stockwork(3 to 4%) enclosing 1 to 2% selvedges of pyrite(2 to 3%). <102.00>-<104.75>: Calcite-stockwork Veining. 5 to 10%. <102.00>-<104.75>: Sericite Veining. Core axis angle 40 to 45 degrees. Sericitic pale green to green, 1.0 to 12mm in width(average 3 to 4mm), frequency >50 per metre.

From(m)	To(m)	Description
104.75	106.26	SANDSTONE (DYKE-32) (UNIT 21) Composition Sandstone: Light brown to grey brown,, medium grained, quartzose-feldspathic, massive. Structure Upper contact: 40 degrees to core axis. Lower contact: 50 degrees to core axis. Veins Stockwork Veining. Core axis angle 45 to 50 degrees. Unit is postdated by a sim- translucent milky grey to greenish black stock and vein array enclosing pyritic(2 to 3%) selvedges.
106.26	112.73	ALTERED FELSIC VOLCANIC FRAGMENTAL (UNIT 21) Composition Lithology: Similar to 87.31 to 104.75 metres. Structure Lower contact: Brecciated. Bedding: 55 to 60 degrees to core axis. Mineralization Pyrite: Trace to 2%. Coarse blebs, disseminations and clusters. Sub-Intervals <106.26>-<111.00>: Clasts outlines are more distinct, less silicification compared to 87.31 to 104.75 metres.
112.73	151.90	MUDSTONE (+-SANDSTONE) (UNIT 12) Composition Mudstone: Black, argillaceous, disretely laminated at 45 to 50 degrees to core axis. Sandstone: 5 to 10%. Interbedded, grey to pinkish grey, medium grained, quartzose-feldspathic sandstone oriented at 60 to 70 degrees to core axis averaging 5mm in width towards lower contact. Structure Upper contact: 45 degrees to core axis. 30cm of poorly sorted medium grained feldspathic and argillaceous(10 to 15%) clasts, well laminated with a dark grey to pinkish grey matrix. Bedding: 50 to 60 degrees to core axis. At 121.00 metres. Mineralization Pyrite: Trace. Occasional blebs and disseminations(+-calcite). Veins and Sub-Intervals

From(m)	To(m)	Description
		<118.77>-<118.77>: Pyrobitumen(1 to 2%).
		<130.45>-<130.69>: Quartz-calcite Veining. Core axis angle 20 degrees. Pyrite(2 to 3%) associated with vein, 2 to 20mm in width.
		<133.50>-<133.91>: Calcite Veining. Core axis angle 25 to 30 degrees. Pyrite(3 to 4%) as blebs, disseminations(+-calcite) and as selvedges within veins ranging from 0.8 to 30mm in width(average 1 to 15mm), approximately 4 veins.
151.90	153.08	SANDSTONE-WACKE (UNIT 14) Composition Sandstone: Poorly sorted, medium grained, grey to pinkish grey. feldspathic-quartzose sandstone. Interval fines up hole towards the lower contact. Structure Massive: Undeformed. Bedding: 70 to 75 degrees to core axis. Upper contact: 70 degrees to core axis. Lower contact: 70 to 80 degrees to core axis. Mineralization Pyrite: 3 to 4%. Selvedges within calcite(+-quartz) veins sub-parallel to 10 degrees to core axis ranging from 0.8 to 30mm in width, average 1 to 2mm in width.
153.08	164.83	ARGILLACEOUS MUDSTONE (UNIT 12) Composition Mudstone: Black, fine grained, argillaceous. Fragments: 10 to 15%. Towards the lower contact the massive contains poorly sorted subhedral to anhedral feldspathic fragments averaging 1 to 2mm in length. Structure Laminated: 60 degrees to core axis. Jointing: parallel to bedding. Mineralization Pyrite: 2 to 3%. From 153.08 to 160.00 metres the pyrite occurs as irregularly distributed blebs, disseminations and syngenetic laminae ranging from 1 to 3mm in width(average 2mm).Also as rare coarse blebs(+-calcite). Towards the lower contact there is an increase in syngenetic pyritic laminae.

From(m)	To(m)	Description
164.83	173.60	SANDSTONE (UNIT 14) Composition Sandstone: Unit is grey to black grey, medium grained, moderately to poorly sorted, consists of subhedral wll bedded plagioclase grains(+-quartz) with minor argillaceous interbeds. Argillite: Towards 173.00 metres the unit becomes interbedded with black argillaceous and grey to tl grey silty units containing minor sub-rounded to sub-angular tuffaceous conglomerate clasts over 5 to 7cm in width. Structure Bedding: 70 degrees to core axis. Jointing: parallel to bedding. Mineralization Pyrite: 2 to 3%. Randomly oriented blebs, clusters and disseminations and discontinuous pyritic lenses. Veins from 1.0 to 4.0mm in width(average 2mm) parallel to bedding(+-calcite). Selvedges with stockwork. Veins <167.61>-<167.90>: Siliceous-stockwork Veining. Bluish grey stockwork containing pyrite selvedges.
173.60	182.63	CONGLOMERATE (UNIT 13) Composition Clasts: 60 to 65%. Rounded to sub-rounded, tuffaceous, ranging from 1mm up to 15cm with an average ov 3 to 4cm in width. Consist of porphyry phase of euhedral to subhedral saussuritized+-sericitized plagioclase phenocrysts(30%) set in a fine grained pale green plagioclase rich groundmass. Matrix: Pale green, siliceous-feldspathic, grading to a lesser black argillaceous mudstone. Structure Bedding: 55 to 60 degrees to core axis. Determined by parallel orientation of some clasts. Jointing: parallel to bedding. Mineralization Pyrite: 2 to 3%. Euhedral blebs and clusters often associated with clast margins. Also as rare discontinuous lenses oriented parallel to the bedding.

From(m)	To(m)	Description
182.63	194.76	AMYGDALOIDAL PLAGIOCLASE PORPHYRY FLOW (UNIT 11) Plagioclase Phenocrysts: Euhedral to subhedral, sericitized, average 0.4 to 0.6mm in length(30 to35%). Composition Groundmass: Pale green to dark green, aphanitic, plagioclase rich(+-sericite). Amygdales: 10%. Quartz healed, spheroidal, average 2 to 3mm in diameter. Structure Massive: Undeformed. Mineralization Pyrite: 3 to 4%. Euhedral blebs, clusters and disseminations. Selvedges within calcitic veins and stockwork up to 12mm in width(average 1 to 2mm).
194.76		END OF HOLE.

Hole No.: 90-40

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	6.84	6.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46705	6.84	7.84	1.00	-	-	13	-	-	3.2	49	32	65	3.6	29330	27	60	27	249
46706	7.84	8.77	.93	-	-	22	-	-	3.8	53	37	64	.6	29090	27	63	36	251
46707	8.77	9.27	.50	-	-	18	-	-	4.2	49	48	68	2.2	29970	31	56	36	382
46708	9.27	9.77	.50	-	-	19	-	-	4.0	51	80	68	1.4	42280	29	65	41	298
46709	9.77	10.27	.50	-	-	8	-	-	3.2	58	107	136	3.1	40150	33	77	56	477
46710	10.27	10.77	.50	-	-	7	-	-	2.6	37	91	65	5.6	27630	31	73	41	457
46711	10.77	11.58	.81	-	-	8	-	-	3.8	53	83	80	2.8	36070	34	67	47	413
46712	11.58	12.09	.51	-	-	18	-	-	3.9	63	79	62	1.5	36980	31	95	60	553
46713	12.09	13.00	.91	-	-	3	-	-	1.2	7	24	61	.1	17760	5	37	3	112
46714	13.00	14.00	1.00	-	-	1	-	-	1.5	16	46	72	.1	32130	4	33	11	166
46715	14.00	17.00	3.00	-	-	9	-	-	1.1	4	43	38	.4	11550	6	35	4	85
46716	17.00	20.00	3.00	-	-	3	-	-	.8	4	47	80	.1	9500	2	58	2	94
46717	20.00	23.00	3.00	-	-	2	-	-	1.2	3	23	49	.1	8040	3	57	1	107
46718	23.00	26.00	3.00	-	-	4	-	-	2.3	21	55	60	1.4	9050	3	117	2	187
46719	26.00	28.05	2.05	-	-	2	-	-	.7	1	29	90	.1	8290	3	57	1	140
46720	28.05	28.50	.45	-	-	1	-	-	.5	1	69	54	.1	10790	4	30	1	63
46721	28.50	29.00	.50	-	-	6	-	-	1.1	2	135	70	.1	44870	13	40	1	35
46722	29.00	30.45	1.45	-	-	6	-	-	2.0	28	71	51	.1	26900	10	22	3	55
46723	30.45	32.00	1.55	-	-	4	-	-	3.0	32	34	44	.1	31060	2	20	5	69
46724	32.00	34.00	2.00	-	-	5	-	-	2.3	34	22	44	.1	23980	4	18	2	69
46725	34.00	37.00	3.00	-	-	2	-	-	2.3	33	13	44	.1	28940	3	15	4	75
46726	37.00	38.84	1.84	-	-	15	-	-	2.0	35	40	35	.1	42530	1	17	4	86
46727	38.84	39.70	.86	-	-	2	-	-	1.4	34	64	50	.1	43080	5	18	3	84
46728	39.70	40.12	.42	-	-	3	-	-	1.7	33	46	70	.1	25240	2	17	3	72
46729	40.12	43.00	2.88	-	-	5	-	-	1.4	33	119	73	.1	24710	4	23	3	74
46730	43.00	46.00	3.00	-	-	7	-	-	2.1	36	1	69	.1	33050	3	9	5	84
46731	46.00	49.00	3.00	-	-	5	-	-	1.9	34	51	99	.1	25760	2	19	12	82
46732	49.00	51.67	2.67	-	-	2	-	-	1.8	37	23	59	.1	27980	3	17	10	81
46733	51.67	54.00	2.33	-	-	1	-	-	2.0	35	1	51	.1	36690	1	16	1	87
46734	54.00	56.00	2.00	-	-	1	-	-	1.6	42	1	62	.1	43080	1	8	1	101
46735	56.00	57.41	1.41	-	-	6	-	-	1.7	42	62	27	.1	24670	2	23	5	86
46736	57.41	60.00	2.59	-	-	1	-	-	.5	7	9	36	.3	7680	2	22	1	62
46737	60.00	63.00	3.00	-	-	6	-	-	.6	7	38	56	.1	8760	1	27	1	103
46738	63.00	66.00	3.00	-	-	14	-	-	.8	6	20	25	1.9	8120	1	27	1	82
46739	66.00	69.00	3.00	-	-	11	-	-	.3	4	34	25	1.9	9220	1	37	1	117
46740	69.00	72.00	3.00	-	-	3	-	-	.8	5	17	37	.1	12790	1	31	1	140
46741	72.00	75.00	3.00	-	-	11	-	-	.3	4	42	36	.3	11570	3	30	1	112
46742	75.00	78.00	3.00	-	-	6	-	-	.5	4	48	30	1.3	8190	2	27	1	90
46743	78.00	80.45	2.45	-	-	2	-	-	1.2	36	22	33	.1	38230	5	17	1	81
46744	80.45	83.00	2.55	-	-	3	-	-	1.3	23	72	37	.2	24960	2	23	2	59
46745	83.00	86.00	3.00	-	-	2	-	-	1.5	44	61	32	.1	44660	2	13	1	113
46746	86.00	87.31	1.31	-	-	8	-	-	1.3	44	71	37	.1	42970	1	13	1	100
46747	87.31	87.78	.47	-	-	10	-	-	1.9	14	61	46	.1	24100	3	15	8	122
46748	87.78	88.36	.58	-	-	13	-	-	1.4	7	73	29	.1	24470	5	26	6	40
46749	88.36	89.32	.96	-	-	5	-	-	1.1	12	57	26	.1	21240	4	23	4	62
46750	89.32	90.32	1.00	-	-	13	-	-	.8	4	54	34	.9	9130	3	26	2	29
46751	90.32	91.32	1.00	-	-	2	-	-	.6	4	68	28	.6	7000	2	23	2	35
46752	91.32	92.32	1.00	-	-	2	-	-	.6	3	24	25	.5	8200	2	27	3	31
46753	92.32	93.32	1.00	-	-	3	-	-	.6	3	55	23	1.9	5710	2	20	2	20

Hole No.: 90-40

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
46754	93.32	94.32	1.00	-	-	4	-	-	.3	4	39	28	.6	7780	2	24	2	24
46755	94.32	95.33	1.01	-	-	2	-	-	.5	3	60	27	1.8	8480	1	22	3	39
46756	95.33	97.33	2.00	-	-	3	-	-	.9	8	32	34	1.5	12810	4	21	2	31
46757	97.33	99.33	2.00	-	-	3	-	-	.7	5	59	31	.1	8860	3	20	1	22
46758	99.33	102.00	2.67	-	-	1	-	-	.7	4	60	46	.1	9590	2	34	1	102
46759	102.00	104.75	2.75	-	-	1	-	-	1.3	5	20	94	.1	15180	4	26	1	88
46760	104.75	106.26	1.51	-	-	4	-	-	.8	34	51	41	1.1	16680	1	24	7	69
46761	106.26	109.00	2.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46762	109.00	112.00	3.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46763	112.00	112.73	.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46764	112.73	113.73	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46765	113.73	115.72	1.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46766	115.72	117.72	2.00	-	-	14	-	-	.6	52	26	39	.1	39370	3	29	5	98
46767	117.72	119.72	2.00	-	-	20	-	-	1.1	44	31	38	.1	37140	1	33	4	77
46768	119.72	120.40	.68	-	-	18	-	-	1.1	55	43	40	.1	37680	2	31	6	91
46769	120.40	121.19	.79	-	-	14	-	-	1.3	44	34	51	.1	28440	2	24	4	73
46770	121.19	123.19	2.00	-	-	22	-	-	1.8	38	19	70	.1	34330	1	31	4	79
46771	123.19	126.19	3.00	-	-	18	-	-	1.1	58	1	86	.1	35590	2	24	3	82
46772	126.19	129.19	3.00	-	-	29	-	-	1.5	47	44	90	.1	41060	1	35	5	82
46773	129.19	130.34	1.15	-	-	16	-	-	1.3	59	1	72	.1	36110	1	30	3	97
46774	130.34	130.69	.35	-	-	10	-	-	1.6	65	27	97	.1	33510	1	33	5	127
46775	130.69	133.50	2.81	-	-	22	-	-	2.3	47	1	57	.1	37370	1	36	3	91
46776	133.50	134.04	.54	-	-	18	-	-	2.5	110	25	46	.1	42520	1	38	7	220
46777	134.04	137.04	3.00	-	-	25	-	-	2.7	42	35	50	.1	37330	2	48	7	72
46778	137.04	137.76	.72	-	-	1	-	-	3.0	215	34	42	5.3	32860	2	557	8	1388
46779	137.76	140.76	3.00	-	-	20	-	-	2.5	62	16	43	.1	35650	1	57	6	129
46780	140.76	143.76	3.00	-	-	20	-	-	2.9	43	1	65	.1	37320	2	57	6	99
46781	143.76	146.76	3.00	-	-	28	-	-	2.7	46	61	66	.1	38990	3	63	6	55
46782	146.76	149.76	3.00	-	-	1	-	-	3.0	42	24	60	.1	36150	1	53	8	92
46783	149.76	151.23	1.47	-	-	11	-	-	2.1	44	60	73	.1	37550	2	53	5	73
46784	151.23	152.42	1.19	-	-	7	-	-	1.2	47	53	72	.1	33110	6	60	3	69
46785	152.42	153.08	.66	-	-	12	-	-	1.7	89	111	74	3.0	33590	3	99	17	652
46786	153.08	153.84	.76	-	-	20	-	-	2.8	116	35	51	1.9	37280	1	507	9	463
46787	153.84	155.52	1.68	-	-	24	-	-	1.9	40	33	56	.1	37170	1	72	6	65
46788	155.52	156.50	.98	-	-	22	-	-	1.9	155	48	62	.1	40760	3	73	7	59
46789	156.50	157.52	1.02	-	-	6	-	-	1.4	53	69	63	.1	42660	1	63	8	41
46790	157.52	158.24	.72	-	-	6	-	-	1.1	29	22	63	.1	38150	1	51	6	34
46791	158.24	160.28	2.04	-	-	9	-	-	2.0	27	31	76	.1	33490	2	51	6	51
46792	160.28	162.28	2.00	-	-	29	-	-	3.3	31	59	69	.1	31960	1	82	11	86
46793	162.28	164.28	2.00	-	-	56	-	-	4.1	29	112	60	.1	36910	6	93	14	104
46794	164.28	164.83	.55	-	-	40	-	-	3.9	22	51	72	.1	51140	1	72	14	76
46795	164.83	165.58	.75	-	-	17	-	-	3.7	16	117	73	.1	36880	6	64	9	130
46796	165.58	166.58	1.00	-	-	25	-	-	2.9	18	68	66	.1	38720	4	69	10	32
46797	166.58	167.61	1.03	-	-	13	-	-	2.4	13	158	66	3.0	32640	17	186	8	571
46798	167.61	168.84	1.23	-	-	13	-	-	2.0	17	467	56	7.8	23600	4	57	19	26
46799	168.84	169.84	1.00	-	-	8	-	-	1.8	10	117	58	.1	24240	1	56	7	29
46800	169.84	170.84	1.00	-	-	6	-	-	2.1	9	87	52	.3	25140	3	50	10	33
46801	170.84	172.00	1.16	-	-	15	-	-	2.0	15	258	49	2.4	39640	1	39	13	139
46802	172.00	173.60	1.60	-	-	78	-	-	1.5	83	125	54	.4	33350	1	1277	10	391
46803	173.60	175.00	1.40	-	-	152	-	-	2.7	120	134	55	2.3	43320	1	1334	8	998

Hole No.: 90-40

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
46804	175.00	178.00	3.00	-	-	22	-	-	.6	18	164	62	3.2	26100	1	37	3	64
46805	178.00	181.00	3.00	-	-	28	-	-	.4	13	50	58	.1	17530	1	33	1	67
46806	181.00	183.02	2.02	-	-	140	-	-	.8	19	132	58	.5	29770	1	37	1	67
46807	183.02	186.00	2.98	-	-	936	-	-	3.0	82	902	48	15.3	48900	1	309	13	439
46808	186.00	189.00	3.00	-	-	192	-	-	1.3	15	612	44	9.8	29560	1	40	10	50
46809	189.00	189.73	.73	-	-	104	-	-	1.8	18	1018	52	18.5	32100	1	40	17	34
46810	189.73	191.76	2.03	-	-	146	-	-	2.5	45	413	49	4.1	24210	2	268	8	311
46811	191.76	194.76	3.00	-	-	64	-	-	2.7	71	1	84	.1	47000	1	185	1	286

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: M. REBAGLIATI/R. HASLINGER

MIN-EN LABS — ICP REPORT

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

90-40

FILE NO: 05-0726-RJ1+2
DATE: 90/10/30
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
46705	3.2	6360	32	21	65	1.2	1	11360	3.6	8	49	29330	2330	14	3030	239	27	50	48	740	60	27	2	1	1	24.0	249	1	1	1	18	13
46706	3.8	4850	37	14	64	1.4	1	13250	.6	8	53	29090	3040	5	5480	308	27	40	50	450	63	36	8	1	1	22.3	251	1	1	1	30	22
46707	4.2	5330	48	11	68	1.3	1	25900	2.2	9	49	29970	2790	4	14510	877	31	50	47	660	56	36	21	1	1	25.0	382	1	1	1	21	18
46708	4.0	5230	80	10	68	1.4	2	10510	1.4	10	51	42280	3220	1	3690	331	29	30	41	390	65	41	4	1	1	22.2	298	1	4	1	29	19
46709	3.2	4560	107	9	136	1.2	2	13350	3.1	10	58	40150	2920	1	4710	342	33	30	54	930	77	56	10	1	1	25.1	477	1	1	1	29	8
46710	2.6	5500	91	8	65	1.1	1	13790	5.6	7	37	27630	3280	1	4920	346	31	40	43	620	73	41	9	1	1	23.1	457	1	1	1	111	7
46711	3.8	6330	83	8	80	1.3	1	12590	2.8	11	53	36070	3820	1	3850	315	34	40	48	1530	67	47	9	1	1	30.2	413	1	1	1	51	8
46712	3.9	5120	79	8	62	1.0	1	18340	1.5	9	63	36980	3150	1	7750	483	31	40	47	600	95	60	21	1	1	27.6	553	1	1	1	53	18
46713	1.2	4660	24	6	61	2.0	1	19810	.1	3	7	17760	2970	1	11770	441	5	40	2	110	37	3	35	1	1	4.8	112	1	1	1	42	3
46714	1.5	4950	46	9	72	1.6	3	26890	.1	18	16	32130	3000	1	20390	841	4	90	22	560	33	11	53	1	1	30.1	166	1	1	1	51	1
46715	1.1	3010	43	4	38	.9	1	17930	.4	3	4	11550	2070	1	7680	374	6	100	3	60	35	4	30	1	1	4.6	85	1	1	1	76	9
46716	.8	4500	47	4	80	2.0	1	9930	.1	2	4	9500	2850	2	7310	173	2	50	1	20	58	2	19	1	1	2.5	94	1	1	1	91	3
46717	1.2	4540	23	3	49	1.9	2	7040	.1	1	3	8040	2510	3	6480	137	3	100	1	70	57	1	7	1	1	2.1	107	1	1	1	63	2
46718	2.3	4780	55	3	60	2.2	1	7800	1.4	2	21	9050	2640	4	6360	147	3	70	3	10	117	2	7	1	1	2.0	187	1	1	1	88	4
46719	.7	4880	29	3	90	2.3	1	8270	.1	1	1	8290	2830	3	6250	144	3	40	1	50	57	1	5	1	1	1.8	140	1	1	1	53	2
46720	.5	3220	69	2	54	1.4	1	9770	.1	2	1	10790	2110	1	2540	131	4	50	2	20	30	1	4	1	1	2.1	63	1	1	2	125	1
46721	1.1	5300	135	6	70	1.0	2	23520	.1	5	2	44870	3190	1	4930	159	13	40	1	60	40	1	8	1	1	3.1	35	1	1	1	75	6
46722	2.0	10210	71	6	51	1.4	2	41250	.1	21	28	26900	3100	14	18030	471	10	140	36	780	22	3	14	1	1	47.7	55	2	1	1	80	6
46723	3.0	15110	34	4	44	.6	2	67310	.1	24	32	31060	2130	28	23100	1181	2	100	36	880	20	5	24	1	1	79.5	69	3	1	2	91	4
46724	2.3	18500	22	5	44	1.1	3	49710	.1	29	34	23980	2120	39	26260	639	4	130	47	1010	18	2	14	1	1	93.5	69	1	1	1	110	5
46725	2.3	15320	13	5	44	1.2	1	65560	.1	30	33	28940	1810	37	28960	842	3	80	44	920	15	4	18	1	1	75.0	75	1	1	1	83	2
46726	2.0	15240	40	7	35	1.2	3	55550	.1	32	35	42530	1960	38	32840	896	1	90	36	900	17	4	11	1	1	85.1	86	1	1	1	91	15
46727	1.4	12140	64	8	50	.9	3	43300	.1	31	34	43080	2550	30	22920	551	5	130	38	980	18	3	10	1	1	74.7	84	1	1	1	71	2
46728	1.7	9720	46	7	70	1.1	2	43300	.1	31	33	25240	2900	24	22890	602	2	140	43	1140	17	3	13	1	1	61.1	72	1	1	1	64	3
46729	1.4	8330	119	7	73	.9	2	43220	.1	29	33	24710	2390	21	22180	592	4	130	40	1100	23	3	22	1	1	56.4	74	1	1	1	56	5
46730	2.1	17470	1	8	69	.6	3	54810	.1	30	36	33050	2020	46	35100	777	3	110	39	1050	9	5	15	1	1	104.2	84	1	1	1	102	7
46731	1.9	9220	51	9	99	1.3	1	55080	.1	29	34	25760	3070	14	28870	770	2	110	45	980	19	12	23	1	1	67.7	82	1	1	1	66	5
46732	1.8	10570	23	7	59	.9	2	54740	.1	29	37	27980	2330	22	28310	823	3	110	45	1030	17	10	16	1	1	72.5	81	1	1	1	68	2
46733	2.0	21530	1	6	51	1.1	3	53960	.1	29	35	36690	1540	48	32140	829	1	150	45	1000	16	1	18	1	1	130.5	87	1	1	3	124	1
46734	1.6	27800	1	6	62	1.1	3	42300	.1	35	42	43080	1480	63	36650	827	1	160	50	990	8	1	14	1	1	170.7	101	1	1	4	159	1
46735	1.7	10330	62	14	27	1.5	3	49510	.1	29	42	24670	760	30	14780	790	2	150	42	1230	23	5	18	1	1	67.9	86	4	1	1	81	6
46736	.5	2050	9	6	36	.7	1	14850	.3	3	7	7680	950	4	1970	157	2	150	2	60	22	1	5	1	1	3.7	62	1	1	1	56	1
46737	.6	4220	38	3	56	2.0	1	13780	.1	2	7	8760	1500	6	3430	193	1	130	4	30	27	1	4	1	1	3.3	103	1	1	1	82	6
46738	.8	4120	20	2	25	1.1	1	14480	1.9	2	6	8120	790	7	3710	154	1	260	1	20	27	1	5	1	1	3.3	82	2	1	1	77	14
46739	.3	5350	34	1	25	1.5	1	7290	1.9	1	4	9220	1060	9	4960	122	1	190	1	20	37	1	4	1	1	1.8	117	1	2	1	71	11
46740	.8	4200	17	1	37	1.7	1	15230	.1	2	5	12790	1130	7	8260	310	1	110	1	10	31	1	11	1	1	2.5	140	2	1	1	31	3
46741	.3	2580	42	1	36	1.8	1	7190	.3	2	4	11570	1270	4	5540	151	3	100	1	10	30	1	8	1	1	1.8	112	1	1	1	43	11
46742	.5	2160	48	1	30	1.3	1	13280	1.3	2	4	8190	1000	3	2740	167	2	120	1	30	27	1	5	1	1	1.9	90	1	1	1	57	6
46743	1.2	11060	22	3	33	.6	1	32000	.1	30	36	38230	720	23	13100	671	5	130	42	1080	17	1	12	1	1	94.5	81	4	1	1	85	2
46744	1.3	7530	72	1	37	.7	2	40830	.2	19	23	24960	1050	16	10490	658	2	140	22	730	23	2	17	1	1	53.1	59	4	1	1	99	3
46745	1.5	21540	61	4	32	.6	2	31410	.1	37	44	44660	520	33	20420	789	2	180	57	1100	13	1	16	1	1	203.0	113	5	1	2	174	2
46746	1.3	18640	71	3	37	.6	1	25840	.1	38	44	42970	720	32	20370	639	1	190	58	1150	13	1	22	1	1	188.7	100	3	1	2	158	8
46747	1.9	2380	61	3	46	.9	1	47650	.1	13	14	24100	1340	2	19870	952	3	100	17	410	15	8	57	1	1	27.9	122	2	1	1	65	10
46748	1.4	1600	73	1	29	.6	1	42470	.1	5	7	24470	1010	1	2740	730	5	80	2	120	26	6	33	1	1	10.1	40	3	1	1	52	13
46749	1.1	5310	57	1	26	1.0	1	30840	.1	14	12	21240	790	9	5970	446	4	140	21	410	23	4	21	1	1	31.8	62	2	1	1	101	5
46750	.8	1490	54	1	34	.9	1	16630	.9	2	4	9130	1170	1	450	158	3	160	1	40	26	2	7	1	1	2.8	29	1	1	1	113	13
46751	.6	1240	68	1	28	.8	1	9110	.6	2	4	7000	1010	1	260	78	2	130	4	30	23	2	5	1	1	2.0	35	1	1	1	110	2
46752	.6	1130	24	1	25	.6	1	13330	.5	3	3	8200	850	1	450	112	2	190	3	40	27	3	8	1	1	2.5	31	1	1	1	81	2
46753	.6	880	55	1	23	.9	1	16080	1.9	2	3	5710	750	1	170	142	2	170	4	20	20	2	14	1	1	1.8	20	1	1	1	107	3
46754	.3	1230	39	1	28	.7	1	8890	.6	3	4	7780	950	1	230	112	2	280	4	10	24	2	7	1	1	1.6	24	1	1	1	120	4
46755	.5	920	60	1	27	.6	1	8660	1.8	3	3	8480	780	1	400	130	1	200	5	10	22	3	6	1	1	1.4	39	1	1	1	124	2
46756	.9	1060	32	1	34	1.2	1	12980	1.5	7	8	12810	920	1	990	225	4	120	8	300	21	2	10	1	1	3.5	31	1	1	1	60	3
46757	.7	1180	59	1	31	.5	1	13070	.1	3	5	8860	880	1	1390	210	3	110	5	60	20	1	5	1	1	2.6	22	1	1	1	111	3
46758	.7	4900	60	1	46	2.1	1	9770	.1	2	4	9590	1250	10	9600	121	2	40	3	60	34	1	5	1	1	2.5	102	2	1	1	51	1
46759	1.3	5720	20	1	94	2.1	1	25530	.1	3	5	15180	1060	12	16770	486	4	30	1	40	26	1	13	1	1	4.2	88	1	1	1	43	1
46760	.8	3660	51	1	41	1.2	1	15160	1.1	30	34	16680	1110	5	5350	238	1	130	49	570	24	7	8	1	1	22.0	69	1	1	1	45	4
46766	.6	14680	26	1	39	.9	1	11460	.1	13	52	39370	1400	20	10760	435	3	60	3	910	29	5	9	1	1	26.7	98	1	1	1	12	14
46767	1.1	13220	31	1	38	.7	2	23600	.1	11	44	37140	1170	17	8490	677	1	60	3	850	33	4	19	1	1	23.6	77	2	1	1	5	20
46768	1.1	14010	43	1	40	.8	1	13920	.1	13	55	37680	1430	18	9140	493	2	70	4	900	31	6	9	1	1	25.0	91	2	1	1	8	18
46769	1.3	11210	34	1	51	.8	2	27720	.1	10	44	28440	1290	15	11010	1212	2	50	4	670	24	4	22	1	1	18.2	73	1	1	1	6	14

COMP: COASTAL MOUNTAIN ENGINEERING
PROJ: SIB
ATTN: M. REBAGLIATI/R. HASLINGER

MIN-EN LABS — ICP REPORT

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

90-40

FILE NO: OS-0726-RJ3+4
DATE: 90/10/30
* CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
46770	1.8	10570	19	16	70	.5	3	30900	.1	11	38	34330	1140	20	9270	1104	1	70	3	860	31	4	30	1	1	23.2	79	1	1	1	4	22
46771	1.1	11610	1	11	86	.4	1	18100	.1	12	58	35590	1420	18	7380	602	2	80	7	790	24	3	19	1	1	24.2	82	1	1	1	3	18
46772	1.5	10020	44	9	90	.5	2	21320	.1	13	47	41060	1430	14	7320	912	1	90	2	890	35	5	25	1	1	23.6	82	1	1	1	4	29
46773	1.3	9790	1	7	72	.4	1	15300	.1	13	59	36110	1320	14	7290	752	1	80	1	840	30	3	16	1	1	20.8	97	1	1	1	1	16
46774	1.6	6530	27	6	97	.7	1	18000	.1	12	65	33510	1850	8	7210	928	1	100	1	750	33	5	22	1	1	15.3	127	1	2	1	7	10
46775	2.3	9520	1	6	57	.2	2	21120	.1	12	47	37370	1270	13	7210	1125	1	70	3	820	36	3	21	1	1	22.1	91	1	1	1	4	22
46776	2.5	10900	25	6	46	.5	1	29260	.1	13	110	42520	1250	14	7680	1559	1	70	1	790	38	7	30	1	1	24.8	220	1	1	1	7	18
46777	2.7	8960	35	5	50	.2	2	21130	.1	12	42	37330	1480	11	6430	1209	2	70	1	770	48	7	17	1	1	19.2	72	1	1	1	4	25
46778	3.0	8370	34	4	42	.6	1	17460	5.3	12	215	32860	1390	10	6220	940	2	70	6	760	557	8	13	1	1	16.5	1388	1	1	1	7	1
46779	2.5	10120	16	5	43	.4	1	21070	.1	11	62	35650	1240	13	7100	1266	1	60	6	820	57	6	16	1	1	18.1	129	1	1	1	1	20
46780	2.9	11450	1	5	65	.2	3	26270	.1	12	43	37320	1530	13	7670	1592	2	80	5	860	57	6	22	1	1	22.2	99	1	1	1	7	20
46781	2.7	10630	61	4	66	.6	2	20220	.1	12	46	38990	1490	13	7680	1324	3	80	4	780	63	6	17	1	1	19.8	55	1	1	1	2	28
46782	3.0	7250	24	5	60	.3	2	22220	.1	11	42	36150	1500	8	6370	1579	1	90	6	830	53	8	16	1	1	14.6	92	1	1	1	5	1
46783	2.1	11230	60	4	73	.7	3	11770	.1	12	44	37550	1590	12	7430	864	2	80	3	750	53	5	10	1	1	15.7	73	1	1	1	1	11
46784	1.2	12080	53	4	72	.6	2	8130	.1	10	47	33110	1720	12	7280	900	6	140	1	900	60	3	8	1	1	15.9	69	2	1	1	18	7
46785	1.7	11120	111	4	74	.7	2	13850	3.0	8	89	33590	1300	13	7610	1419	3	130	1	870	99	17	14	1	1	20.1	652	1	2	1	11	12
46786	2.8	11020	35	3	51	.2	1	9720	1.9	11	116	37280	1070	13	7210	1005	1	70	5	630	507	9	6	1	1	21.1	463	1	3	1	11	20
46787	1.9	10390	33	3	56	.2	2	4820	.1	12	40	37170	1460	12	6370	707	1	80	1	820	72	6	7	1	1	18.9	65	1	1	1	4	24
46788	1.9	8700	48	4	62	.5	1	6300	.1	12	155	40760	1520	9	5870	848	3	100	2	850	73	7	7	1	1	17.8	59	1	1	1	12	22
46789	1.4	8080	69	4	63	.5	1	6880	.1	12	53	42660	1470	8	4950	684	1	100	1	810	63	8	5	1	1	16.6	41	1	1	1	9	6
46790	1.1	9490	22	3	63	.1	1	4360	.1	11	29	38150	1310	10	5670	629	1	100	1	780	51	6	6	1	1	19.2	34	1	3	1	23	6
46791	2.0	7740	31	3	76	.5	2	16980	.1	11	27	33490	1490	8	4730	1088	2	90	2	810	51	6	12	1	1	17.1	51	1	1	1	12	9
46792	3.3	5380	59	3	69	.3	2	13580	.1	9	31	31960	1320	5	3900	974	1	80	4	780	82	11	10	1	1	11.6	86	1	1	1	11	29
46793	4.1	5590	112	3	60	.2	2	4930	.1	11	29	36910	1500	5	4550	712	6	110	1	920	93	14	8	1	1	10.5	104	1	1	1	10	56
46794	3.9	4120	51	3	72	.4	1	4810	.1	13	22	51140	1550	4	4500	615	1	80	4	840	72	14	9	1	1	9.0	76	1	3	1	2	40
46795	3.7	5200	117	4	73	.2	2	42400	.1	10	16	36880	1440	5	14390	4117	6	80	1	640	64	9	30	1	1	15.2	130	1	1	1	6	17
46796	2.9	2280	68	3	66	.1	2	4070	.1	10	18	38720	1520	1	3050	426	4	110	1	740	69	10	8	1	1	8.0	32	1	1	1	8	25
46797	2.4	2030	158	2	66	.5	1	5150	3.0	10	13	32640	1550	1	1250	383	17	150	1	620	186	8	7	1	1	6.7	571	1	1	1	19	13
46798	2.0	1430	467	1	56	.2	1	4060	7.8	10	17	23600	1320	1	350	184	4	130	1	510	57	19	6	1	1	3.7	26	1	1	1	28	13
46799	1.8	1610	117	2	58	.2	1	8650	.1	8	10	24240	1440	1	1020	617	1	170	1	420	56	7	13	1	1	4.4	29	1	1	1	18	8
46800	2.1	1560	87	15	52	.4	1	15530	.3	9	9	25140	1490	5	4700	1629	3	90	1	370	50	10	13	1	1	5.2	33	1	1	1	14	6
46801	2.0	1900	258	11	49	.5	1	3030	2.4	16	15	39640	1560	3	2520	561	1	100	1	520	39	13	5	1	1	9.6	139	1	1	1	22	15
46802	1.5	1620	125	8	54	.6	1	3160	.4	11	83	33350	1680	2	2070	644	1	40	1	330	1277	10	5	1	1	5.4	391	1	1	1	8	78
46803	2.7	2970	134	7	55	.5	1	7430	2.3	15	120	43320	1840	3	4020	1841	1	150	1	1070	1334	8	12	1	1	15.6	998	1	1	1	11	152
46804	.6	5290	164	5	62	.3	1	4660	3.2	9	18	26100	1970	4	2630	1014	1	170	1	1030	37	3	6	1	1	16.1	64	1	1	1	19	22
46805	.4	4450	50	3	58	.2	1	5550	.1	6	13	17530	1470	3	2440	925	1	140	1	890	33	1	7	1	1	14.3	67	1	1	1	28	28
46806	.8	7340	132	4	58	.4	1	4720	.5	10	19	29770	1780	6	3670	1034	1	150	1	1150	37	1	7	1	1	25.2	67	1	1	1	13	140
46807	3.0	11160	902	5	48	.1	2	9180	15.3	23	82	48900	1290	11	8440	2028	1	170	9	790	309	13	16	1	1	56.8	439	1	1	2	30	936
46808	1.3	6700	612	3	44	.3	1	6280	9.8	9	15	29560	1780	6	4390	1083	1	180	1	1260	40	10	8	1	1	25.3	50	2	1	1	8	192
46809	1.8	6210	1018	3	52	.4	1	4710	18.5	10	18	32100	1950	5	4040	729	1	170	1	1350	40	17	6	1	1	22.3	34	1	1	1	17	104
46810	2.5	7840	413	3	49	.1	1	7910	4.1	8	45	24210	1620	7	5770	1049	2	270	1	1240	268	8	11	1	1	33.4	311	2	1	1	18	146
46811	2.7	28400	1	6	84	.2	1	29480	.1	28	71	47000	1290	23	33760	1673	1	180	20	390	185	1	26	1	1	120.3	286	1	4	1	38	64

CEC ENGINEERING LTD. REBAGLIATI GEOLOGICAL CONSULTING LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-41

SIB PROPERTY DIAMOND DRILL LOG

NTS MAP #	: 104B/9	CLAIM #	: SIB 7		
LOCAL GRID	: 9992.07 N / 9902.38 E	GLOBAL GRID	: 14170.91 N / 18434.34 E	ELEVATION	: 1134.59 metres
LENGTH	: 139.29 m	INCLINATION	: -45.0 degrees	AZIMUTH	: 117.0 degrees
OVERBURDEN	: 1.44 m	CASING	: 1.44 metres, casing left in hole.		
LOGGED BY	: Guy LePage	DRILLED BY	: J.T. Thomas	ASSAYING BY	: Min-En Labs
DATE LOGGED	: 1990/10/20 Y/M/D	DATE DRILLED	: 1990/10/17 Y/M/D	CORE LOCATION	: 101+00 N, 98+00
				SAMPLE NO. SERIES	: 46812-46898

ACID TESTS

Depth	Dip	Azimuth
139.29	-39.5	117.0

SUMMARY LOG 90-41

From(m)	To(m)	Field Name (Legend)
0.00	1.44	CASING
1.44	38.00	CONGLOMERITIC SANDSTONE (UNIT 14)
38.00	57.66	ARGILLACEOUS MUDSTONE (UNIT 12)
57.66	64.75	ARGILLACEOUS WACKE/CONGLOMERATE (UNIT 15)
64.75	80.40	SANDSTONE (UNIT 14)
80.40	92.30	ARGILLACEOUS MUDSTONE (UNIT 12)
92.30	98.00	SANDSTONE (UNIT 14)
98.00	103.42	SILICIFIED SANDSTONE (UNIT 14)
103.42	119.82	ARGILLACEOUS MUDSTONE (UNIT 12)
119.82	138.29	CONGLOMERATE (UNIT 13)
138.29		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-41

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
49.09	55.51	6.42	0.016	0.31		0.79
60.00	62.75	2.75	0.014	0.37	0.56	1.39
95.00	102.00	7.00	0.012			

From(m)	To(m)	Description
0.00	1.44	CASING
1.44	38.00	CONGLOMERITIC SANDSTONE (UNIT 14) Composition Sandstone: Pale green to grey green grading to green black, poorly to moderately sorted, medium grained, feldspathic sandstone. Carbonate: 10 to 15%. Dark green intervals are carbonate rich. Clasts: 5 to 60%. Rounded to angular, mm up to 8cm in width(average 10 to 15mm in width. Heterolithic assortment from tuffaceous to cherty to minor argillaceous clasts. Mudstone: 10 to 15%. Towards the lower contact there is an overall increase in the argillite in the matrix along with interbeds of fine grained pale green brown mudstone elongate. 35.80 to 36.40 metres. Structure Bedding: 60 to 70 degrees to core axis. Graded bedding indicates an up hole facing. Gouge: From 23.77 to 24.17 metres. Mineralization Pyrite: 1 to 5%. Coarse blebs and clusters/disseminations mostly associated with conglomeritic phases.
38.00	57.66	ARGILLACEOUS MUDSTONE (UNIT 12) Composition Mudstone: Black to greenish black, fine grained, argillaceous, discretely laminated, mudstone grading to siltstone in places. Carbonate: Carbonate rich beds. Structure Bedding: 55 to 60 degrees to core axis. Defined mostly by planar orientation of carbonate rich beds. However, from 47.50 to 57.66 metres bedding is indistinct and the unit is massive. Jointing: parallel to bedding. Mineralization Pyrite: 2 to 3%. From 38.00 to 48.59 metres. Irregularly scattered blebs and disseminations. Blebs and disseminations associated with minor pyrobitumen lenses. Veins oriented at 55 to 60 degrees to core axis range from 0.5 to 4.0mm in width(average 15 to 20mm) increase in abundance towards 48.59 metres.

From(m) To(m) ----------Description----------

Pyrite: 4 to 5%. From 48.59 to 50.28 metres. Pyrite as selvedges within a quartz-calcite stockwork and vein array. Veins at 45 to 60 and range from 3.0 to 10.0mm in width(average 2 to 2.5mm), frequency 50 per metre. Trace sphalerite.

Sulphides: 10 to 13%. From 50.28 to 51.00 metres. Pyrite(5 to 6%), sphalerite(3 to 4%) and galena(2 to 3%) as selvedges within a quartz-calcite stockwork and vein array. Veins at varied degrees to core axis and range from 0.5 to 5.0mm in width. Stockwork encloses brecciated argillaceous fragments. Pyrite also as disseminated specks throughout.

Pyrite: 3 to 4%. From 51.00 to 53.55 metres. Slight decrease in stockwork and vein intensity.

Sulphides: 8 to 14%. From 53.55 to 54.50 metres. Pyrite(5 to 10%), galena(3 to 4%), sphalerite(trace). Similar to 50.28 to 51.00 metres.

Pyrite: 2 to 3%. From 54.50 to 57.66 metres. Minor quartz-calcite stockwork, mostly veins and selvedges within quartz-calcite veins randomly oriented at 45 to 50 degrees to core axis ranging from 0.5 to 20mm in width(average 1.0 to 1.5mm).

57.66 64.75 ARGILLACEOUS WACKE/CONGLOMERATE (UNIT 15)

Composition

Fragments: Rounded to angular, tuffaceous(plagioclase porphyry) to cherty, range from 1mm up to 5 to 6cm in width(average 12 to 15mm). Plagioclase phenocrysts(30%) are saussuritized to sericitized and are set in an aphanitic plagioclase/sericite rich pale green groundmass. Graded bedding indicates fining uphole.

Matrix: Black, argillaceous.

Mineralization

Pyrite: 2 to 3%. Clusters and blebs(often associated with clasts margins).

Sub-Intervals

<57.66>-<57.66>: Graphite gouge. Upper contact and lower contact at 15 to 20 degrees to core axis.

<62.75>-<64.75>: Unit composed of argillaceous mudstone with interbedded pyrobitumen lenses. Pyrite(3 to 5%) as medium to coarse blebs and as clusters associated with the margin of pyrobitumen.

From(m)	To(m)	Description
64.75	80.40	SANDSTONE (UNIT 14) Composition Sandstone: Grey to blackish, grey medium grained, poorly to moderately sorted, feldspathic. Structure Bedding: 60 degrees to core axis. Jointing: parallel to bedding. Mineralization Pyrite: 7 to 10%. From 64.75 to 67.75 metres. Blebs, disseminations and syngenetic laminae oriented roughly parallel to the bedding at 60 degrees to core axis ranging from 0.5 to 20mm in width(average 8 to 10mm), frequency 10 per metre. Also as veins and oriented blebs at 5 to 10 degrees to core axis(average 15 to 20mm wide). Galena(1 to 2%) at 67.75 metres. Pyrite: 2 to 3%. From 67.75 to 73.59 metres. As clusters and disseminations and veins oriented at 60 to 70 degrees to core axis ranging from 0.5 to 20mm in width(average 10mm), frequency 10 per metre. Pyrite: 3 to 4%. From 73.59 to 80.40 metres. Disseminations and clusters in veins(+-calcite) sub-parallel to 5 degrees to core axis, range from 1mm to 15mm in width(average 3mm). Sub-Intervals <73.21>-<73.59>: FAULT ZONE. Gouged and granite throughout, upper contact and lower contact unclear.
80.40	92.30	ARGILLACEOUS MUDSTONE (UNIT 12) Composition Mudstone: Black, argillaceous, fine grained, syngenetic pyritic laminae, siltstone-mudstone. Structure Bedding: 45 to 50 degrees to core axis. Defined by pyritic laminae. Lower contact: 60 degrees to core axis. Unclear. Jointing: parallel to bedding. Sub-Intervals <80.40>-<86.08>: Pyrite(1 to 2%) as disseminations but mostly as selvedges within quartz-calcite stockwork/veins averaging 2mm in width. <86.08>-<86.90>: Pyrite(5 to 7) as syngenetic pyritic laminae forming discrete veins and lenses oriented at 40 to 45 degrees to core axis. <86.90>-<92.30>: Similar to 80.40 to 86.08 metres, however there is a decrease in stockwork and veins intensity. Pyrite(1 to 2%).

From(m)	To(m)	Description
92.30	98.00	SANDSTONE (UNIT 14) Composition Lithology: Similar to 64.75 to 80.40 metres. Mineralization Pyrite: 3 to 4%. Mostly as disseminations, blebs and clusters.
98.00	103.42	SILICIFIED SANDSTONE (UNIT 14) Composition Lithology: Similar to 92.80 to 98.00 metres. Alteration Silicification: Strong. (70%). Pale grey, siliceous and pervasive overprint. Mineralization Pyrite: 5 to 10%. Blebs, clusters and disseminations. Also as selvedges within a siliceous bluish to greenish grey stockwork and veins array. Veins Quartz-calcite Veining. Core axis angle 35 to 40 degrees. 10 to 20mm in width(average 8 to 10mm), contain pyritic selvedges.
103.42	119.82	ARGILLACEOUS MUDSTONE (UNIT 12) Composition Mudstone: Black to greenish black, fine grained, argillaceous, with syngenetic pyritic laminae, interbedded with 3 to 5% pyrobitumen. Structure Bedding: 60 degrees to core axis. Defined by syngenetic pyritic laminae. Jointing: parallel to bedding. Mineralization Pyrite: 2 to 3%. From 103.42 to 106.02 metres. Mostly as blebs, disseminations and minor syngenetic laminae. Pyrite: 5 to 7%. From 106.02 to 107.53 metres. Blebs and clusters and discrete syngenetic laminae oriented parallel to the bedding. Pyrite: 2 to 3%. From 107.53 to 119.82 metres. Mostly as fine disseminations and blebs.

From(m)	To(m)	Description
119.82	138.29	CONGLOMERATE (UNIT 13) Composition Clasts: 5 to 30%. Rounded to sub-rounded, tuffaceous, vary from mm's up to 8 to 10cm in width(average 1.5 to 2.0cm). Argillite: Unit consists of a series of black silty-argillite(contining only 5 to 10% clasts, averaging 10 to 12mm in width) alternating with densely packed clasts(up to 30%) over 1.0 metres set in a pale green plagioclase-sericite rich groundmass. Groundmass: Black to greyish brown to pale green, aphanitic. Structure Bedding: 15 to 45 degrees to core axis. Variable throughout. Mineralization Pyrite: 5 to 10%. From 119.82 to 120.76 metres. Syngenetic fine grained pyrite overprinted by coarse pyritic blebs. Pyrite: 2 to 3%. From 120.76 to 137.50 metres. Disseminations, blebs and in veins oriented at 15 to 20 degrees to core axis(+-calcite), ranging from 2.0mm to 8mm in width(av3.0mm), frequency 2 to 3 per metre. Pyrite: 5 to 7%. From 137.50 to 138.29 metres. Mostly as blebs and clusters oriented along the margins of the tuffaceous clasts.
138.29		END OF HOLE.

Hole No.: 90-41

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
0	.00	1.44	1.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46812	1.44	4.00	2.56	-	-	11	-	-	1.0	6	6	345	.1	26870	1	33	1	84
46813	4.00	7.00	3.00	-	-	10	-	-	2.2	18	1	241	.1	88240	1	28	1	155
46814	7.00	10.00	3.00	-	-	2	-	-	1.0	7	4	244	.1	24710	1	33	1	86
46815	10.00	13.00	3.00	-	-	3	-	-	1.9	6	1	279	.1	61880	1	14	1	143
46816	13.00	16.00	3.00	-	-	3	-	-	3.1	26	1	504	.1	*****	1	16	1	276
46817	16.00	19.00	3.00	-	-	16	-	-	.6	8	1	202	.1	37850	1	22	1	94
46818	19.00	22.00	3.00	-	-	16	-	-	.8	7	40	200	.1	35620	2	26	1	79
46819	22.00	25.00	3.00	-	-	29	-	-	.9	15	1	170	.1	43640	1	23	1	109
46820	25.00	28.00	3.00	-	-	7	-	-	.8	34	1	253	.1	42960	1	25	1	103
46821	28.00	30.00	2.00	-	-	13	-	-	.8	5	1	185	.1	40830	1	24	1	95
46822	30.00	32.00	2.00	-	-	12	-	-	.5	9	1	192	.1	44950	1	30	1	163
46823	32.00	37.00	5.00	-	-	1	-	-	1.0	40	1	172	.1	43670	1	17	1	88
46824	37.00	38.20	1.20	-	-	4	-	-	1.1	30	1	265	.1	45730	1	21	1	111
46825	38.20	38.81	.61	-	-	38	-	-	1.2	48	1	189	.1	44870	1	36	2	91
46826	38.81	39.01	.20	-	-	39	-	-	2.1	105	35	235	.1	45890	1	49	1	94
46827	39.01	40.00	.99	-	-	25	-	-	1.4	50	22	151	.1	38910	1	31	2	90
46828	40.00	40.58	.58	-	-	13	-	-	1.8	38	47	125	.1	35730	1	22	1	87
46829	40.58	40.87	.29	-	-	16	-	-	2.0	43	1	172	.1	36550	1	16	1	73
46830	40.87	42.06	1.19	-	-	33	-	-	2.1	56	1	145	.1	45300	1	35	1	80
46831	42.06	44.06	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46832	44.06	46.07	2.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46833	46.07	48.07	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46834	48.07	48.59	.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46835	48.59	49.09	.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46836	49.09	49.59	.50	-	-	412	-	-	8.7	205	185	120	.1	45140	4	203	18	26
46837	49.59	50.09	.50	-	-	552	-	-	10.8	146	245	106	6.5	45560	4	458	26	802
46838	50.09	50.50	.41	-	-	880	-	-	18.2	2566	630	104	196.1	48200	13	1123	30	35943
46839	50.50	51.00	.50	-	-	672	-	-	17.9	1778	255	83	271.0	33420	12	1421	25	52835
46840	51.00	51.73	.73	-	-	631	-	-	11.3	238	551	118	23.6	43070	7	318	42	3421
46841	51.73	52.07	.34	-	-	620	-	-	9.4	524	350	128	44.1	39160	8	196	27	7807
46842	52.07	52.55	.48	-	-	585	-	-	7.8	60	246	136	3.9	40330	6	139	22	283
46843	52.55	53.00	.45	-	-	376	-	-	5.2	99	236	105	7.1	23140	6	167	17	797
46844	53.00	53.55	.55	-	-	389	-	-	16.1	304	228	117	33.9	41250	6	10723	28	6075
46845	53.55	54.50	.95	-	-	516	-	-	8.0	62	282	131	2.5	41560	5	512	22	217
46846	54.50	55.51	1.01	-	-	417	-	-	7.2	47	199	141	1.6	34700	1	367	18	180
46847	55.51	56.50	.99	-	-	292	-	-	5.9	34	547	144	6.8	29990	6	1454	15	125
46848	56.50	57.66	1.16	-	-	126	-	-	3.8	60	231	144	2.2	36830	4	129	7	92
46849	57.66	60.00	2.34	-	-	37	-	-	3.4	19	83	134	.1	23730	1	65	1	46
46850	60.00	62.75	2.75	-	-	465	-	-	12.7	781	322	155	73.8	36570	7	5552	26	13860
46851	62.75	63.75	1.00	-	-	114	-	-	5.0	49	22	161	.1	48220	3	239	2	277
46852	63.75	64.75	1.00	-	-	84	-	-	5.3	148	60	147	5.2	41780	4	768	4	1467
46853	64.75	65.75	1.00	-	-	47	-	-	2.9	36	45	147	1.5	28900	3	255	1	294
46854	65.75	66.75	1.00	-	-	38	-	-	1.3	31	84	358	.9	19310	1	110	1	278
46855	66.75	67.75	1.00	-	-	319	-	-	10.7	429	438	110	35.9	56630	2	4405	16	5923
46856	67.75	69.00	1.25	-	-	61	-	-	2.6	26	102	153	.1	34980	1	83	1	122
46857	69.00	72.00	3.00	-	-	93	-	-	1.8	39	207	194	.3	29120	1	228	7	177
46858	72.00	75.00	3.00	-	-	144	-	-	1.8	14	146	326	1.5	21980	1	55	1	25
46859	75.00	76.58	1.58	-	-	206	-	-	2.7	40	260	182	3.2	38210	1	203	3	423
46860	76.58	77.58	1.00	-	-	117	-	-	1.1	13	116	217	.7	14170	1	49	1	39

Hole No.: 90-41

Sample	From	To	Length	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	Cu ppm	As ppm	Ba ppm	Cd ppm	Fe ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm
46861	77.58	78.58	1.00	-	-	109	-	-	1.5	15	69	188	1.3	18590	2	57	1	25
46862	78.58	80.14	1.56	-	-	57	-	-	1.0	14	60	167	1.2	16620	1	46	1	4
46863	80.14	80.40	.26	-	-	59	-	-	1.9	18	64	180	.4	21670	3	81	3	2
46864	80.40	83.50	3.10	-	-	105	-	-	3.5	22	81	189	.8	28760	3	81	4	1
46865	83.50	84.05	.55	-	-	255	-	-	9.5	45	255	83	1.6	48520	6	129	11	10
46866	84.05	85.66	1.61	-	-	284	-	-	7.0	34	154	172	.1	37720	1	99	5	7
46867	85.66	86.08	.42	-	-	314	-	-	11.2	52	112	105	.1	53440	5	135	11	16
46868	86.08	86.98	.90	-	-	317	-	-	9.7	51	128	129	.1	51600	5	152	9	12
46869	86.98	88.07	1.09	-	-	264	-	-	11.0	63	145	134	2.6	44090	3	355	12	351
46870	88.07	89.07	1.00	-	-	300	-	-	9.1	41	246	164	.1	42560	2	150	15	18
46871	89.07	92.30	3.23	-	-	262	-	-	8.0	35	132	158	.1	40350	3	99	11	34
46872	92.30	92.69	.39	-	-	128	-	-	9.0	829	147	133	33.1	24950	4	6792	12	5944
46873	92.69	95.00	2.31	-	-	226	-	-	1.7	31	248	133	2.4	31030	1	139	2	92
46874	95.00	98.00	3.00	-	-	351	-	-	1.7	29	173	207	2.7	22970	1	324	1	147
46875	98.00	99.00	1.00	-	-	358	-	-	2.2	18	234	178	2.3	19530	1	71	4	20
46876	99.00	100.00	1.00	-	-	455	-	-	4.2	100	228	112	2.8	19940	4	1273	7	95
46877	100.00	102.00	2.00	-	-	449	-	-	3.5	11	261	129	5.3	26200	2	747	8	46
46878	102.00	104.70	2.70	-	-	218	-	-	2.4	10	163	132	2.1	21570	3	88	8	22
46879	104.70	106.62	1.92	-	-	155	-	-	4.4	19	120	157	.5	30510	1	96	10	8
46880	106.62	107.53	.91	-	-	287	-	-	5.8	26	288	127	2.7	59280	1	107	9	7
46881	107.53	109.00	1.47	-	-	244	-	-	5.9	23	123	156	.1	38530	2	90	7	7
46882	109.00	111.00	2.00	-	-	290	-	-	6.7	33	146	175	.1	45660	2	107	10	8
46883	111.00	113.00	2.00	-	-	226	-	-	4.4	16	146	129	.4	35770	5	82	10	7
46884	113.00	115.21	2.21	-	-	423	-	-	1.8	11	228	126	1.1	30420	2	46	3	8
46885	115.21	118.21	3.00	-	-	297	-	-	7.5	26	218	131	.1	42530	4	93	14	1
46886	118.21	119.82	1.61	-	-	171	-	-	3.9	17	162	165	.1	35600	1	79	9	4
46887	119.82	120.94	1.12	-	-	250	-	-	3.7	52	170	177	1.5	39060	1	76	6	4
46888	120.94	121.94	1.00	-	-	62	-	-	1.6	86	55	202	.1	15500	2	36	1	10
46889	121.94	124.00	2.06	-	-	67	-	-	.8	55	50	195	.1	22040	1	28	1	29
46890	124.00	126.00	2.00	-	-	97	-	-	.7	36	30	163	.1	31380	1	11	1	33
46891	126.00	129.00	3.00	-	-	59	-	-	.7	51	13	190	.1	38580	1	15	1	39
46892	129.00	129.68	.68	-	-	174	-	-	1.3	41	101	199	.1	46380	1	28	1	42
46893	129.68	130.80	1.12	-	-	144	-	-	1.2	55	157	203	.1	41090	1	40	1	22
46894	130.80	133.00	2.20	-	-	78	-	-	.8	51	60	148	.1	27290	2	24	1	22
46895	133.00	135.00	2.00	-	-	47	-	-	.5	73	31	141	.1	18830	1	62	1	16
46896	135.00	137.13	2.13	-	-	76	-	-	2.6	343	33	108	.1	28000	1	44	3	54
46897	137.13	137.50	.37	-	-	158	-	-	8.6	1297	257	107	2.8	41820	1	276	14	113
46898	137.50	139.29	1.79	-	-	182	-	-	1.6	100	93	159	1.0	38660	1	31	1	27

COMP: COASTAL MTN.ENGRG.
PROJ: SIC
ATTN: M.REBAGLIATI/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-41

FILE NO: OS-0727-RJ1+2
DATE: 90/10/30
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
46812	1.0	13670	6	16	345	.7	1	12290	.1	9	6	26870	2500	15	5130	409	1	150	1	610	33	1	8	1	1	26.0	84	2	1	1	16	11
46813	2.2	23300	1	17	241	.1	6	14400	.1	28	18	88240	2180	11	6650	685	1	130	1	930	28	1	40	1	1	323.6	155	3	1	3	1	10
46814	1.0	14090	4	8	244	.2	2	15930	.1	10	7	24710	2810	10	5410	600	1	170	1	660	33	1	12	1	1	28.3	86	2	1	1	7	2
46815	1.9	24370	1	9	279	.1	6	15070	.1	21	6	61880	2950	13	8250	888	1	150	1	1020	14	1	25	1	1	139.5	143	3	1	1	1	3
46816	3.1	30110	1	14	504	.1	10	21110	.1	40	26	148820	1690	9	9890	1389	1	100	1	1170	16	1	79	1	1	546.3	276	2	1	4	1	3
46817	.6	19410	1	6	202	.7	3	4490	.1	11	8	37850	3620	10	5880	346	1	100	1	380	22	1	6	1	1	39.4	94	2	1	1	1	16
46818	.8	16590	40	5	200	.5	3	10570	.1	11	7	35620	3390	7	4430	550	2	110	1	680	26	1	9	1	1	43.0	79	1	1	1	1	16
46819	.9	21160	1	5	170	.6	2	4870	.1	14	15	43640	3670	10	6000	406	1	130	1	440	23	1	5	1	1	30.7	109	2	2	1	1	29
46820	.8	20290	1	4	253	.5	2	7090	.1	13	34	42960	3760	10	5710	445	1	120	1	640	25	1	8	1	1	34.0	103	1	1	1	1	7
46821	.8	19040	1	5	185	.7	3	8000	.1	12	5	40830	3590	7	4420	418	1	150	1	850	24	1	6	1	1	33.1	95	2	1	1	1	13
46822	.5	21640	1	4	192	.6	2	7170	.1	13	9	44950	3580	10	5890	461	1	120	1	620	30	1	3	1	1	34.1	163	2	1	1	1	12
46823	1.0	21060	1	4	172	.5	2	13100	.1	14	40	43670	3480	10	6620	728	1	150	1	1080	17	1	8	1	1	43.3	88	1	1	1	1	1
46824	1.1	25710	1	5	265	.6	1	11280	.1	12	30	45730	3930	19	9160	778	1	160	1	1370	21	1	8	1	1	67.3	111	4	1	1	1	4
46825	1.2	23640	1	5	189	.6	1	9700	.1	15	48	44870	4160	16	9540	543	1	1010	1	970	36	2	8	1	1	40.3	91	3	2	1	1	38
46826	2.1	23920	35	4	235	.6	1	29530	.1	14	105	45890	5110	12	9100	1310	1	940	4	1130	49	1	18	1	1	38.9	94	2	1	1	1	39
46827	1.4	18950	22	3	151	.8	2	19920	.1	13	50	38910	3220	12	9130	913	1	1160	2	950	31	2	12	1	1	27.8	90	3	1	1	1	25
46828	1.8	19230	47	2	125	.2	2	27680	.1	11	38	35730	2960	12	10140	1412	1	1130	4	800	22	1	16	1	1	28.2	87	3	1	1	1	13
46829	2.0	21680	1	3	172	.4	3	31690	.1	12	43	36550	4270	13	10600	1615	1	1170	3	780	16	1	16	1	1	31.0	73	2	1	1	2	16
46830	2.1	22090	1	16	145	.4	1	25840	.1	14	56	45300	3330	15	11610	1351	1	930	5	830	35	1	16	1	1	30.3	80	2	1	1	1	33
46836	8.7	6150	185	2	120	.3	1	10660	.1	11	205	45140	2870	1	2060	462	4	980	1	690	203	18	8	1	1	12.5	26	1	2	1	2	412
46837	10.8	5480	245	3	106	.1	1	19470	6.5	11	146	45560	3200	1	2740	1098	4	1070	1	700	458	26	11	1	1	11.7	802	1	1	1	3	552
46838	18.2	5260	630	7	104	.1	1	10790	196.1	11	2566	48200	3100	1	1060	547	13	840	1	570	1123	30	11	1	1	11.1	35943	1	3	1	5	880
46839	17.9	2980	255	6	83	.1	1	10700	271.0	9	1778	33420	1900	1	720	610	12	70	1	460	1421	25	13	1	1	6.3	52835	1	2	1	24	672
46840	11.3	4720	551	2	118	.1	2	8020	23.6	11	238	43070	2960	1	520	286	7	180	1	760	318	42	10	1	1	9.6	3421	1	1	1	15	631
46841	9.4	4780	350	3	128	.2	1	6350	44.1	9	524	39160	2920	1	550	247	8	140	1	620	196	27	10	1	1	9.8	7807	1	1	1	25	620
46842	7.8	5070	246	1	136	.1	1	5110	3.9	9	60	40330	3110	1	500	205	6	1130	1	530	139	22	8	1	1	11.8	283	1	1	1	17	585
46843	5.2	3500	236	1	105	.1	2	13630	7.1	7	99	23140	2390	1	400	594	6	890	1	500	167	17	13	1	1	6.9	797	1	1	1	40	376
46844	16.1	4030	228	2	117	.1	1	14130	33.9	8	304	41250	2660	1	460	711	6	950	1	530	10723	28	7	1	1	9.1	6075	1	1	1	21	389
46845	8.0	4450	282	2	131	.3	2	5680	2.5	11	62	41560	2810	3	500	222	5	1200	1	730	512	22	8	1	1	10.0	217	1	1	1	7	516
46846	7.2	5330	199	1	141	.2	1	3700	1.6	11	47	34700	2940	1	760	162	1	970	1	770	367	18	6	1	1	10.5	180	1	1	1	6	417
46847	5.9	5490	547	21	144	.2	1	14530	6.8	9	34	29990	3160	9	840	705	6	140	3	820	1454	15	10	1	1	10.5	125	1	1	1	26	292
46848	3.8	8710	231	12	144	.1	1	9090	2.2	10	60	36830	2890	6	2760	484	4	120	1	930	129	7	10	1	1	13.4	92	1	1	1	18	126
46849	3.4	9850	83	7	134	.1	1	64460	.1	8	19	23730	2520	6	4710	3177	1	70	3	790	65	1	58	1	1	16.3	46	4	1	1	9	37
46850	12.7	5900	322	9	155	.2	1	11670	73.8	10	781	36570	3380	2	950	448	7	1170	1	800	5552	26	11	1	1	12.0	13860	1	1	1	22	465
46851	5.0	12750	22	7	161	.1	1	20130	.1	12	49	48220	3460	7	4880	1234	3	1080	1	500	239	2	10	1	1	24.6	277	1	1	1	1	114
46852	5.3	10800	60	6	147	.1	1	20810	5.2	12	148	41780	3270	5	4070	1357	4	1160	1	560	768	4	15	1	1	16.3	1467	1	1	1	2	84
46853	2.9	8890	45	3	147	.1	1	26820	1.5	14	36	28900	3150	4	3580	2134	3	130	3	650	255	1	16	1	1	17.2	294	1	1	1	7	47
46854	1.3	6290	84	3	358	.1	1	8860	.9	10	31	19310	3460	1	1090	363	1	180	1	790	110	1	9	1	1	15.0	278	1	1	1	20	38
46855	10.7	6220	438	7	110	.1	2	9760	35.9	17	429	56630	3440	2	1160	392	2	1100	1	550	4405	16	12	1	1	11.7	5923	1	1	1	11	319
46856	2.6	10590	102	3	153	.1	2	32430	.1	10	26	34980	3010	5	3960	1126	1	110	1	810	83	1	31	1	1	17.7	122	2	1	1	5	61
46857	1.8	5040	207	3	194	.1	1	6550	.3	10	39	29120	3460	1	420	189	1	180	1	580	228	7	9	1	1	9.7	177	1	1	1	12	93
46858	1.8	6110	146	2	326	.1	1	8710	1.5	8	14	21980	3590	1	720	326	1	170	1	630	55	1	13	1	1	10.7	25	1	1	1	17	144
46859	2.7	5850	260	3	182	.1	1	5270	3.2	10	40	38210	3940	1	390	137	1	190	1	600	203	3	11	1	1	11.2	423	1	1	1	19	206
46860	1.1	6020	116	1	217	.1	1	4960	.7	6	13	14170	3900	1	410	137	1	210	1	570	49	1	11	1	1	10.8	39	1	1	1	23	117
46861	1.5	6370	69	1	188	.1	1	4380	1.3	7	15	18590	4230	1	440	104	2	930	1	520	57	1	13	1	1	11.4	25	1	1	1	14	109
46862	1.0	5080	60	1	167	.1	1	5640	1.2	7	14	16620	3500	1	380	172	1	1290	1	800	46	1	10	1	1	8.2	4	1	1	1	27	57
46863	1.9	6120	64	1	180	.1	1	7320	.4	6	18	21670	4110	1	450	270	3	1210	1	560	81	3	10	1	1	9.7	2	1	1	1	21	59
46864	3.5	6400	81	2	189	.1	1	10560	.8	8	22	28760	4130	1	540	397	3	1210	1	770	81	4	10	1	1	12.2	1	1	1	1	16	105
46865	9.5	6610	255	3	83	.1	1	16180	1.6	13	45	48520	4410	1	620	742	6	1070	1	850	129	11	9	1	1	12.4	10	1	1	1	1	255
46866	7.0	5630	154	1	172	.1	1	8330	.1	9	34	37720	3640	1	590	365	1	1340	1	830	99	5	9	1	1	10.9	7	1	1	1	12	284
46867	11.2	5760	112	2	105	.1	1	4480	.1	12	52	53440	4030	1	440	226	5	1030	1	830	135	11	6	1	1	10.4	16	1	1	1	1	314
46868	9.7	6270	128	2	129	.1	1	4600	.1	12	51	51600	4280	1	460	197	5	1010	1	900	152	9	7	1	1	11.8	12	1	1	1	1	317
46869	11.0	5650	145	2	134	.2	1	4030	2.6	11	63	44090	3700	1	420	133	3	840	1	860	355	12	8	1	1	11.6	351	1	2	1	1	264
46870	9.1	6060	246	2	164	.1	1	5440	.1	10	41	42560	4170	1	440	215	2	1060	1	690	150	15	8	1	1	10.8	18	1	1	1	5	300
46871	8.0	6000	132	2	158	.1	1	3030	.1	11	35	40350	3770	1	620	149	3	940	1	950	99	11	5	1	1	10.6	34	1	1	1	1	262
46872	9.0	4720	147	1	133	.1	1	13540	33.1	6	829	24950	3510	1	480	612	4	900	1	500	6792	12	36	1	1	8.3	5944	1	2	1	67	128
46873	1.7	4050	248	1	133	.1	1	10690	2.4	11	31	31030	3010	1	420	480	1	1500	1	540	139	2	17	1	1	9.3	92	1	1	1	38	226
46874	1.7	3640	173	1	207	.1	1	10750	2.7	8	29	22970	2770	1	330	437	1	1180	1	560	324	1	14	1	1	8.4	147	1	1	1	32	351
46875	2.2	4930	234	1	178	.1	1	12890	2.3	7	18	19530	3790	1	580	633	1	270	1	650	71	4	12	1	1	9.3	20	1	1	1	36	358
46876	4.2	2660	228	1	112	.1	1	37000	2.8	6	100	19940	2050	1	770	3250	4	840	5	450	1273	7	23	1	1	5.8	95	1	1	1	36	455

COMP: COASTAL MTN.ENGRG.
PROJ: SIG
ATTN: M.REBAGLIATI/R.HASLINGER

MIN-EN LABS — ICP REPORT

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

90-41

FILE NO: 0S-0727-RJ3
DATE: 90/10/30
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPB
46877	3.5	3220	261	23	129	.1	2	21530	5.3	7	11	26200	2440	6	460	1312	2	230	1	580	747	8	18	1	1	6.9	46	1	1	1	19	449
46878	2.4	3600	163	16	132	.1	2	7950	2.1	7	10	21570	2470	3	280	234	3	300	1	580	88	8	14	1	1	7.1	22	1	1	2	26	218
46879	4.4	5360	120	13	157	.4	2	7260	.5	10	19	30510	3640	3	420	209	1	1210	1	1000	96	10	9	1	1	11.2	8	1	1	1	10	155
46880	5.8	4670	288	13	127	.2	1	7290	2.7	11	26	59280	3260	2	420	205	1	1060	1	850	107	9	12	1	1	12.4	7	1	1	1	2	287
46881	5.9	5620	123	11	156	.1	3	8920	.1	10	23	38530	3830	1	430	357	2	1060	1	880	90	7	14	1	1	12.1	7	1	1	1	4	244
46882	6.7	7370	146	11	175	.3	2	3810	.1	12	33	45660	4820	1	570	143	2	1130	1	1060	107	10	7	1	1	15.8	8	1	1	1	1	290
46883	4.4	4480	146	8	129	.1	1	12070	.4	9	16	35770	3030	1	510	592	5	990	1	710	82	10	15	1	1	9.2	7	1	1	1	8	226
46884	1.8	5590	228	8	126	.2	1	9040	1.1	8	11	30420	3720	1	1270	404	2	1180	1	1260	46	3	12	1	1	11.3	8	1	1	1	13	423
46885	7.5	4750	218	7	131	.2	2	4090	.1	11	26	42530	3220	1	420	148	4	950	1	880	93	14	7	1	1	9.2	1	1	1	1	1	297
46886	3.9	4120	162	6	165	.1	1	12030	.1	8	17	35600	2840	1	330	484	1	1120	1	740	79	9	17	1	1	7.0	4	1	1	1	10	171
46887	3.7	6330	170	7	177	.3	2	7510	1.5	17	52	39060	4080	1	960	285	1	1270	1	660	76	6	10	1	1	13.5	4	1	1	1	1	250
46888	1.6	7420	55	4	202	.6	2	3000	.1	10	86	15500	4540	1	1220	169	2	1030	1	220	36	1	8	1	2	16.1	10	1	1	1	2	62
46889	.8	10630	50	5	195	.8	2	4780	.1	10	55	22040	4580	3	3210	486	1	90	1	210	28	1	6	1	1	17.2	29	1	1	1	1	67
46890	.7	14240	30	6	163	.8	1	6790	.1	8	36	31380	3590	6	5150	852	1	60	1	210	11	1	6	1	1	17.7	33	2	1	1	1	97
46891	.7	16970	13	7	190	1.0	3	8360	.1	10	51	38580	4280	7	5800	1055	1	90	1	370	15	1	6	1	1	24.4	39	2	2	1	1	59
46892	1.3	16300	101	6	199	.7	2	8880	.1	13	41	46380	4990	5	5000	928	1	70	1	540	28	1	6	1	1	21.1	42	2	1	1	1	174
46893	1.2	12340	157	6	203	.7	3	6940	.1	13	55	41090	4930	3	3460	582	1	120	1	1270	40	1	9	1	1	16.8	22	1	1	1	1	144
46894	.8	10270	60	4	148	.8	1	4550	.1	10	51	27290	3670	3	2860	456	2	100	1	480	24	1	7	1	1	16.1	22	1	1	1	1	78
46895	.5	7980	31	4	141	.6	2	3600	.1	7	73	18830	3910	2	1640	292	1	100	1	220	62	1	9	1	2	14.4	16	1	1	1	1	47
46896B	2.6	7170	33	31	108	.9	1	4780	.1	11	343	28000	2930	20	2400	464	1	90	1	280	44	3	7	1	1	14.5	54	2	2	1	9	76
46897B	8.6	4420	257	21	107	.2	1	16420	2.8	18	1297	41820	2880	9	1380	1174	1	110	1	410	276	14	7	1	1	14.7	113	1	1	1	22	158
46898B	1.6	7570	93	14	159	.1	1	11420	1.0	11	100	38660	4180	3	2080	796	1	200	1	1220	31	1	14	1	1	21.3	27	1	1	1	4	182

SIB 21
SIB 2
SIB 20
SIB 1
SIB 23
SIB 4
SIB 22
SIB 3
SIB 25
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SIB 13
SIB 36
SIB 39
SIB 38
SIB 16
SIB 15

POLO 9
REC. No 7810

POLO 10
REC. No 7811

POLO 2
REC. No 7803

POLO 5
REC. No 7806

(OLD)
POLO 2
REC. NO 6685

(OLD)
POLO 5
REC. NO 6688

OLD POLO
CLAIM OUTLINE

GLOBAL 16000 N
GLOBAL 17500 E
GLOBAL 20000 E
Global 14000 N
Global 17500 E
Global 20000 E

GAP
LAKE
CREEK
COULTER
LCP

SCALE
0 100 200 300 400 500
metres

AMERICAN FIBRE CORPORATION
SILVER BUTTE RESOURCES LTD.

C.E.C. ENGINEERING LTD.
REBAGLIATI GEOLOGICAL CONSULTING LTD

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SKEENA M.D., B.C.

CLAIM MAP AND DRILL HOLE PLAN

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,334

SCALE: 1:5000	DRAWN BY: ProComp GeoDraft Ltd.	FILE: ddhtopo.dwg
DATE: Feb.,15, 91	N.T.S. 104B/9W,10E	FIGURE: 4