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PITT ISLAND MASSIVE SULPHIDE PROPERTY

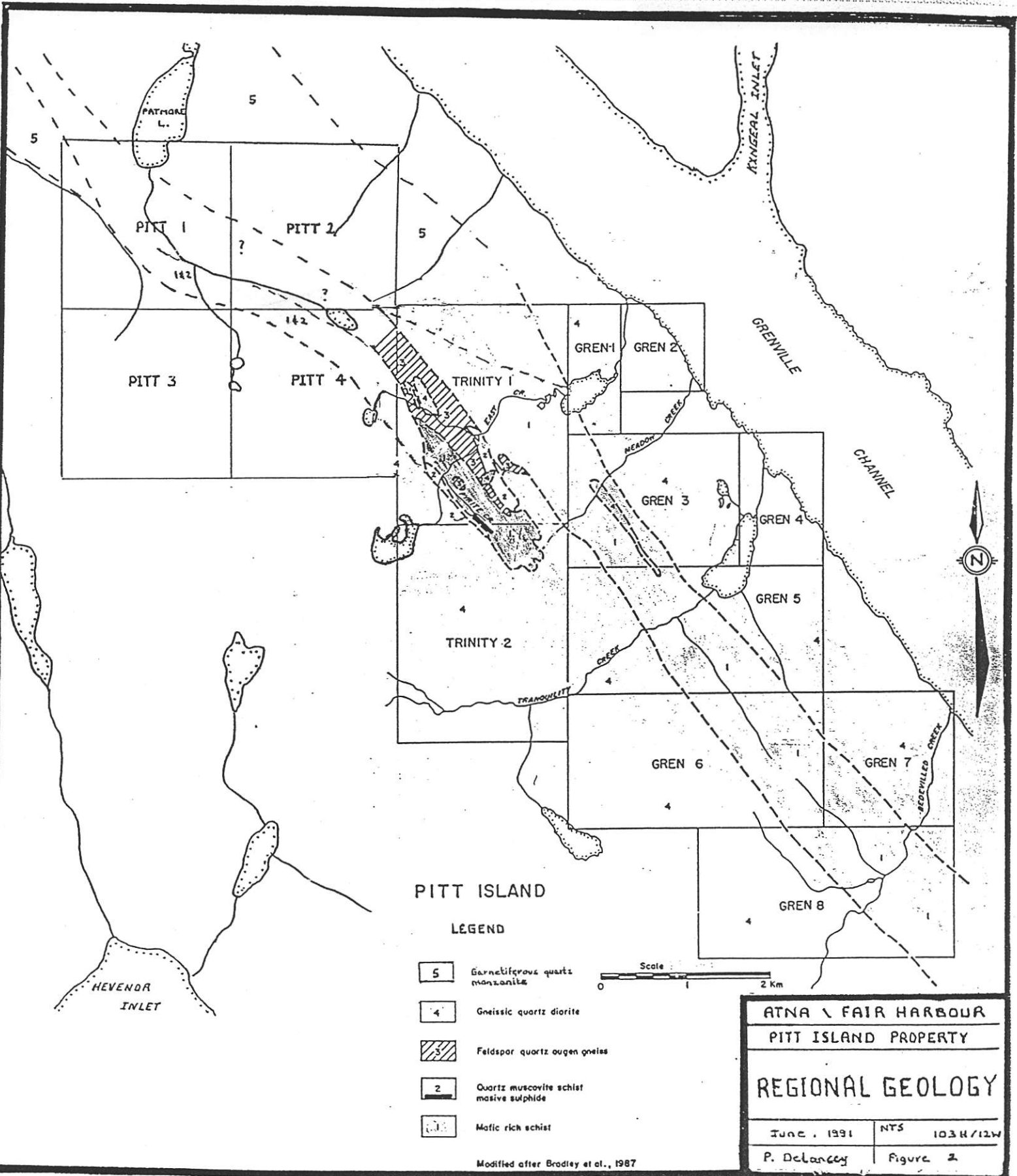
Atna Resources Ltd. has packaged its recently staked claims on Pitt Island with contiguous claims to the south, under option to Fair Harbour Resources. The resulting 195 claim units cover a newly recognized belt of meta-volcanic/sedimentary rock, 15 km long by 3 km wide, hosting polymetallic massive sulphide mineralization.

The focus of attention has been on a + 400 m long massive sulphide unit exposed in Pyrite Creek. The sulphide unit is conformable between steeply dipping pyritic sericite schists and biotite-chlorite schists. Chip sampling across the massive sulphide unit has produced consistent base and precious metal values up to 5.5% Cu, 1.0% Pb, 5.0% Zn, 87.4 g/ton Ag and 2.38 g/ton Au over 1.4 meters. In 1989 Fair Harbour completed 6 holes totalling 494 m. Massive sulphides with significant base and precious metal values were intersected in all holes. Hole 6 intersected 1.12 m of 3.9% Cu, 8.3% Zn, 1.8% Pb, 73.4 g/ton Ag and 0.54 g/ton Au. Drilling results suggest the massive sulphide unit may widen with depth. Base metal-rich massive sulphide boulders 3 m in diameter were discovered 150 m along strike from DDH# 4. Results of recent sampling of sulphide-rich schist adjacent the massive sulphide showed values in the order of 6 g/ton Au.

Little exploration has been carried out elsewhere along the belt, particularly on the recently staked ground northwest of Pyrite Creek. Preliminary prospecting indicated disseminated to massive pyrite in biotite schists and felsic gneisses. Several grab samples contain values in the order 1% Cu, 0.5% Pb, 2% Zn with anomalous gold, silver, cadmium and barium values.

A 1000 m drilling program is recommended to test the massive sulphide unit exposed in Pyrite Creek. Concurrently, a systematic property-wide program including geological mapping, silt and soil geochemistry and an airborne EM survey, is recommended to explore for additional centres of mineralization.

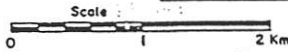

Peter R. DeLancey P. Eng.



PITT ISLAND

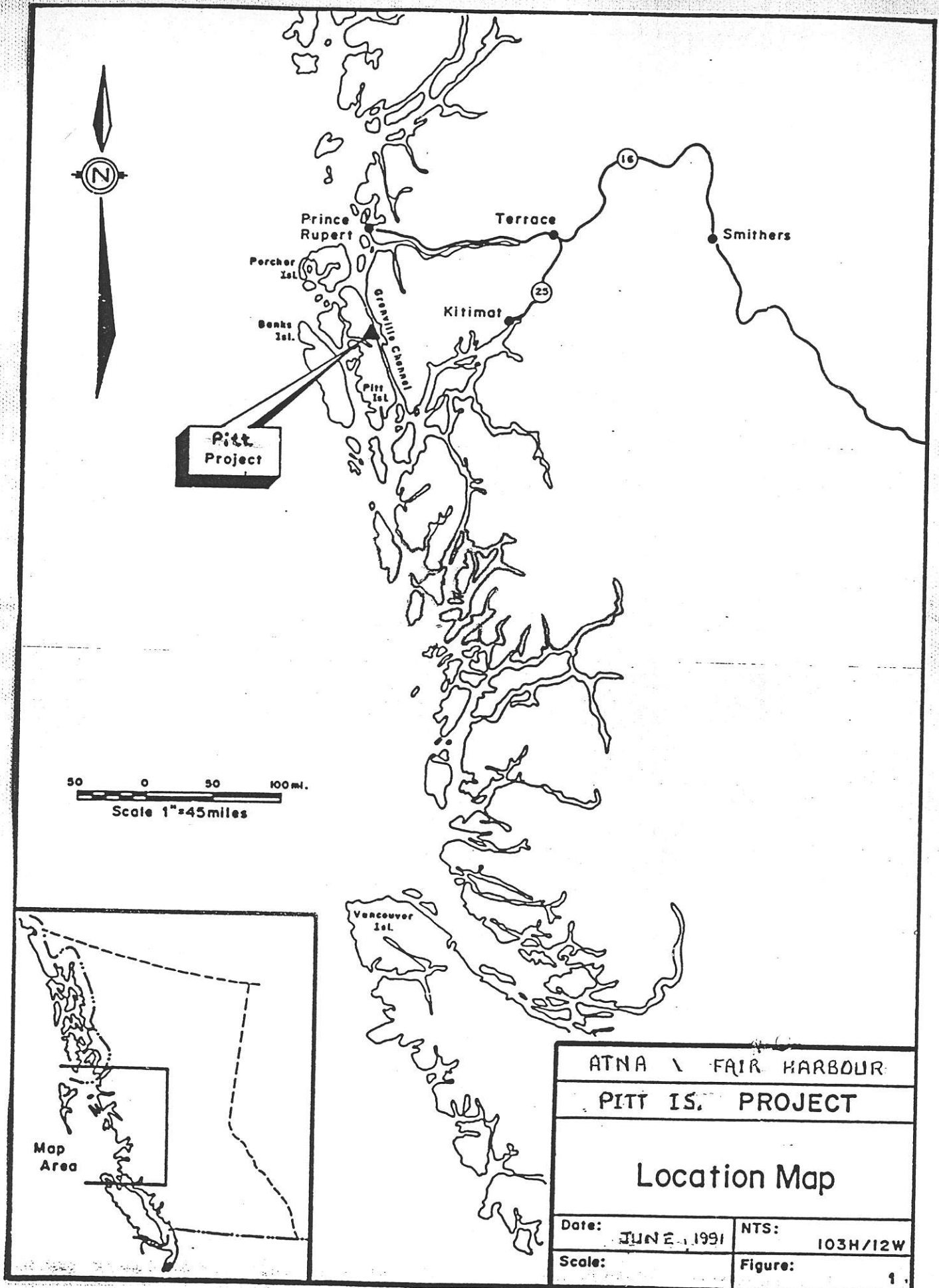
LEGEND

- 5 Garnetiferous quartz monzonite
- 4 Gneissic quartz diorite
- / / / / / Feldspar quartz ougen gneiss
- 2 Quartz muscovite schist
massive sulphide
- [stippled] Mafic rich schist



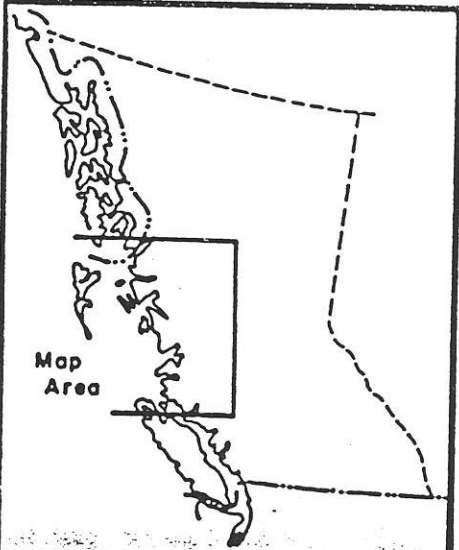
ATNA \ FAIR HARBOUR	
PITT ISLAND PROPERTY	
REGIONAL GEOLOGY	
June, 1991	NTS 103H/12W
P. DeLancey	Figure 2

Modified after Brodley et al., 1987



Pitt Project

50 0 50 100 mi.
Scale 1"=45miles



ATNA \ FAIR HARBOUR	
PITT IS. PROJECT	
Location Map	
Date: JUNE, 1991	NTS: 103H/12W
Scale:	Figure: 1

GEOCHEMICAL ANALYSIS CERTIFICATE

2690 - 6661 Burrard St., Vancouver, BC V6C 2K8 Submitted by: CAMERON BCEL

P. 002/003

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Mn	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Nb	K	U	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	
XXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
RX 49839 Grab	61	8051	4180	21415	13.7	20	28	611	14.13	6	5	ND	1	8	152.5	4	19	61	.20	.054	2	11	1.20	95	.30	2	1.74	.05	1.67	1	33
RX 49840 Grab	2	112	1166	1707	21.2	3	5	62	2.83	221	5	ND	3	154	7.0	25	2	1	.35	.055	3	1	.03	54	.01	2	.74	.03	.12	7	190
RX 49841/mchip	5	10154	5253	3097	59.4	18	16	357	7.11	15	5	ND	1	6	24.9	6	75	32	.22	.046	2	22	3.05	72	.13	2	2.87	.08	1.98	2	6880
RX 49842 Grab	1	123	23	288	4	22	28	568	5.03	2	5	ND	1	16	1.4	2	2	111	.52	.064	2	21	2.92	51	.20	2	2.75	.09	1.20	1	220
RX 49843 75mchip	15	15462	3478	37773	31.1	28	16	626	15.05	2	5	ND	1	4	205.7	3	35	67	.20	.046	2	11	2.04	59	.27	2	2.53	.09	1.92	1	52
RX 49844 Grab	31	55914	5627	27989	90.4	19	7	576	11.73	5	5	ND	1	14	156.8	11	73	75	.24	.039	2	18	1.69	60	.28	2	2.13	.10	1.72	1	63
RX 49845/mchip	12	18434	11403	72679	66.1	32	16	477	17.29	15	5	ND	1	10	401.3	32	58	41	.35	.050	2	1	.52	21	.14	3	1.30	.07	.72	1	120
STANDARD C/AU-R	17	58	35	131	6.9	67	30	1020	3.92	38	16	6	37	52	18.1	15	20	56	.45	.081	36	57	.87	175	.09	34	1.87	.06	.15	11	480

P. Cr.

SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Mn2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Sr	Lu	Zr	Y	Nb	LOI	SUM
	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%
XXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
RX 49839	48.67	11.56	16.79	2.12	3.55	2.32	1.65	.66	.30	.11	.004	9466	503	11	93	16	20	7.1	96.52
RX 49840	70.76	13.63	3.98	.42	.56	.23	4.33	.49	.22	.02	.002	3810	181	22	180	23	20	4.4	99.74
RX 49841	53.56	14.95	9.90	5.90	2.43	1.83	2.29	.62	.31	.06	.006	3294	207	25	196	30	20	6.2	98.67
RX 49842	52.16	14.80	11.23	7.43	5.15	2.44	1.56	1.17	.36	.30	.006	443	231	23	89	27	20	3.1	99.83
RX 49843	40.08	10.46	19.61	3.65	1.82	1.53	2.18	.47	.31	.09	.002	16579	245	5	90	18	20	11.1	94.16
RX 49844	44.78	11.64	15.52	3.01	2.80	1.91	1.91	.56	.40	.08	.002	7463	286	8	91	19	20	7.5	91.43
RX 49845	22.49	5.58	27.51	1.55	2.02	.40	1.19	.29	.35	.11	.002	52750	581	2	39	12	20	17.8	88.33
STANDARD SO-4	68.74	9.69	3.48	.88	1.51	1.25	1.94	.52	.34	.08	.007	730	188	24	297	22	20	11.3	99.93

SSAYERS

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Mn	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Nb	K	U	Au*	Ba*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	
J-PITT-91-20 - Py. Cr. 1	105	85700	9840	81079	110.3	43	26	550	27.22	30	5	ND	3	8	498.7	65	144	32	.22	.030	2	10	.34	14	.11	21	.76	.03	.37	1	69	50294
J-PITT-91-21 - " "	39	58227	9785	73122	90.2	50	28	540	26.15	27	8	ND	3	7	443.0	59	96	35	.38	.050	2	10	.50	7	.13	21	1.54	.08	.76	1	600	42997
J-PITT-91-23 - " "	4	9199	320	1725	30.9	16	18	169	7.07	7	5	ND	1	2	14.1	2	28	11	.09	.022	2	12	1.01	7	.05	5	1.17	.04	.69	1	1000	1581
J-PITT-91-22 - " "	3	11140	428	2781	16.8	24	10	372	7.67	6	5	ND	1	13	19.5	2	24	33	.35	.041	2	44	1.58	13	.13	4	2.24	.14	1.36	1	220	2406
J-PITT-91-23 - " "	4	9545	318	1790	32.2	17	18	175	7.21	0	5	ND	1	3	14.5	2	23	11	.09	.025	3	12	1.04	7	.06	2	1.21	.04	.72	1	1020	1272
J-PITT-91-24 - " "	6	10576	1038	1678	25.1	24	36	207	9.09	6	5	ND	1	29	12.7	2	36	28	.84	.033	2	13	1.39	11	.08	4	2.64	.21	.96	1	480	1978
J-PITT-91-25 PATMORE	66	4260	3422	16203	9.0	24	20	608	11.73	2	5	ND	1	8	119.0	2	26	55	.19	.044	2	15	1.23	13	.31	3	1.61	.05	1.63	1	34	17573
STANDARD C/AU-R/CB-1200	18	55	37	133	6.7	71	33	1049	3.98	39	17	7	36	53	18.8	14	18	54	.50	.090	36	59	.87	177	.09	34	1.90	.06	.15	11	540	2105

JUL-15-19

DIME ANALYTICAL

TO

PIT ISLAND PROPERTY

1/2

ROCK SAMPLE DESCRIPTION AND ASSAY RESULTS

SAMPLE #	DESCRIPTION	CuI	PbI	ZnI	Ag g/t	Au g/t	Ba ppm	Hg ppb
50093	f.g. massive white siliceous quartz sericite schist (siliceous cap?); float	0.01	0.01	0.01	1.6	0.02	440	120
50094 (Picture 1)	massive sulphide exposure in Pyrite Creek - 0.75 m width - abundant lithic fragments - rounded and angular - dominantly py with lesser cp, sp, gn- sulphide is texturally granular.	9.04	1.93	5.46	6.9	0.34	30300	49125
50095	massive sulphide exposure in Pyrite Creek - abundant py, cp, sp & gn- sample section is 0.50-0.75 m wide - compared to the 094 sample this sample appears to have more cp, sp while 094 is more py-rich.	6.15	1.72	5.65	76.0	0.30	11900	39125
50096 (Picture 2)	massive sulphide exposure in Pyrite Creek - in contact with hanging wall sericite schist and footwall chlorite schist - massive sulphide section is 0.80-1.0 m wide - contains abundant py with lesser cp, sp, gn.	1.85	2.07	3.60	63.7	0.30	27100	38500
50097	sample is of the hanging wall sericite schist (with minor interlayered chlorite schist) - there is some granodiorite dyking present - moderate disseminated py - taken above 096 sample.	0.16	0.10	0.21	6.5	0.036	3450	2760
50098	massive sulphide exposure in Pyrite Creek - section sampled is 0.30 m - dominate sulphide is py with lesser cp.	6.89	1.29	4.38	59.7	1.14	8210	18875
50099 (Picture 3)	there are several <10 to 20 cm quartz veins paralleling the schistosity or bedding - veins do contain minor to moderate cp-veins occur across an exposure of 1 m.	0.19	0.02	0.09	5.4	0.16	2600	1035
(Picture 4)	picture showing the variety and angularity of lithic fragments in massive sulphide horizon - some mafic fragments appear to have a banded sulphide texture - fragment size varies from < 1 cm to over 20 cm.							
(Picture 5)	picture is of 1.5 m boulder in Pyrite Creek with abundant large to small rounded to angular fragments - some fragments look like the Footwell biotite schist while others look like the hanging wall sericite schist while some others look like the Coast Range intrusions.							
(Pictures 6 & 7)	picture looking south at part of Main Showing where the sulphide horizon splits - 1.0 m wide massive sulphide to east with semi-massive to disseminated sulphide to west.							
50100	sample taken where Peter was standing in picture 6 & 7 - this is where INCO got their 6-7 gm Au sample - biotite-chlorite schist with minor quartz veining and minor of abundant disseminated to semi-massive sulphide (py, cp, sp, gn) - sample taken across 1.5 m	1.70	0.82	0.45	66.4	1.85	3520	350
50518 (Picture 8)	picture is of a 2 x 3 x 2 m boulder of massive sulphide - there is excellent py, cp, sp in the boulder - there are abundant variably sized fragments.	10.20	0.59	3.94	3.94	2.29 1.70	11700	25750
50519 (Picture 9)	picture is of the float boulder Mark found - there are 3-4 boulders 30-50 cm in size of biotite schist with abundant disseminated py, cp, sp & gn - 5-10 vol% sulphide - grab from boulder.	1.20	0.52	1.77	21.1	0.14	6020	10375
50520	possible outcrop of biotite-rich schist which is 20-25 m north of the 519 sample - minor disseminated py, cp, sp - possible outcrop exposure is across 4 m - sample taken across 2 m width.	0.29	0.16	0.57	6.3	nil	3450	200
50521	Large rusty outcroppings several kilometers south of Pyrite Creek - outcrops consist of biotite schists and Coast Range intrusive dykes - minor disseminated pyrite.	0.03	0.02	0.02	3.4	nil	1750	170
50522	same as 521 except further north along ridge-biotite schist - minor disseminated pyrite.	0.01	0.01	0.01	3.1	nil	2690	110



50512

10.2%, 0.59%, 3.94%, 96.8

Exposed massive sulphides

50100

1.70%, 0.82%, 0.43%, 88.4

50099

2310, 478, 1026, 5.4

50098

6.89%, 1.29%, 4.38%, 57.7

50097

0.155%, 0.10%, 0.21%, 6.5

50096

1.85%, 2.07%, 3.61%, 69.7

50094

9.04%, 1.93%, 5.46%, 89.0

50095

6.15%, 1.72%, 5.65%, 78.0

50093

130, 17, 101, 11.6

Trace of massive sulphide horizon

Core Storage

89-1 (-43°)
89-2 (-65°)

TRINITY 1
TRINITY 2

0 50 100 metres

50093

Rock SAMPLE Cu, Pb, Zn, Ag

(% or ppm)

Fair Harbour Mining Corporation	
TRINITY PROJECT	
DRILL HOLE PLAN	
Date: Aug, 1989	N.T.S.: 103H/12W
Scale: 1:500	Figure: 7