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DEPT. OF THE ENVIRONMENT

Nova Scotia Department of Environment & Labour, 15 2002
13, First Street,
Yarmouth,
BSA 1S9

Oct. 8th 2002

**YARMOUTH DISTRICT
OFFICE
YARMOUTH, N.S.**

Attention: Mr. Bob Petrie: Regional Manager.

Dear Mr. Petrie,

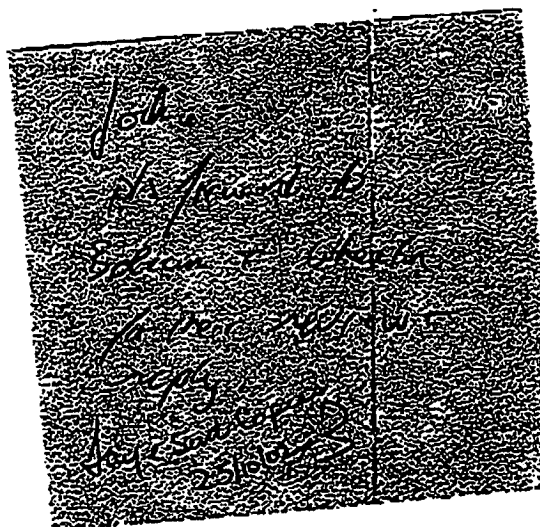
re: Whites Cove Quarry

Please find attached for your records the blast design for the initial blast scheduled for late October or November.

Yours Truly,



Paul G. Buxton P.Eng.



CONSULT

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A0034703_4

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DEPT. OF THE ENVIRONMENT

OCT 15 2002

YARMOUTH DISTRICT
OFFICE
YARMOUTH, N.S.

BLAST DESIGN

LOCATION:	White Point Quarry
BLAST #:	Two
NUMBER OF HOLES	50
HOLE DIAMETER	4"
HOLE DEPTH	16' to 26'
SUB DRILL:	3'
BURDEN:	8'
SPACING:	8'
MAX LBS/DELAY	85.5 lb
COLLAR:	6'
TYPE OF EXPLOSIVES:	Amex Super 4000, 75mm x 400mm toe load, 9 lbs/holet. Amex 11 Column load
PRIMERS:	90 gram
DETONATORS:	Handdet 25/500ms
TOTAL WT OF EXPLOSIVES:	3015 lbs
TOTAL TONNES BLASTED:	4,123.9 tonnes

NOTE: Collar of holes to be stemmed with crushed stone.

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13: A0034703_5

10/30/02 WED 12:38 FAX 902 742 7788
118/84/280Z RS:26 1-982-568-2055

DEPT ENVR YARMOUTH
ARCHIBALD DRILLING

DEPT OF THE ENVIRONMENT

OCT 15 2002
YARMOUTH DISTRICT
OFFICE
YARMOUTH, N.S.

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ARCHIBALD DRILLING & BLASTING

WHITES POINT QUARRY

Pattern 8 x 8 ft = 4.74 tonne per ft of bore hole 4 in
Subdrill 3 ft included = 150 ft
4.74 x 870 = 4,123.8 Tonne
Total ft loaded = 720 ft
Total wt of explosives = 3015 lb

Hole Depth

	FACE										
18	18	18	18	18	18	18	18	18	18	18	18 - 130 ft
18	18	18	18	18	18	18	18	18	18	18	18 - 150 ft
19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5 - 165 ft
22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5 - 195 ft
26	26	26	26	26	26	26	26	26	26	26	26 - 230 ft

PROJECT: BlastDU
DESCRIPTION: 10022002
ISSUE DATE: 10/03/2002
LOCATION: 10022002
SCALE: Not to scale
ICI EXPLOSIVES
REVISED v1.04

A0034703_6

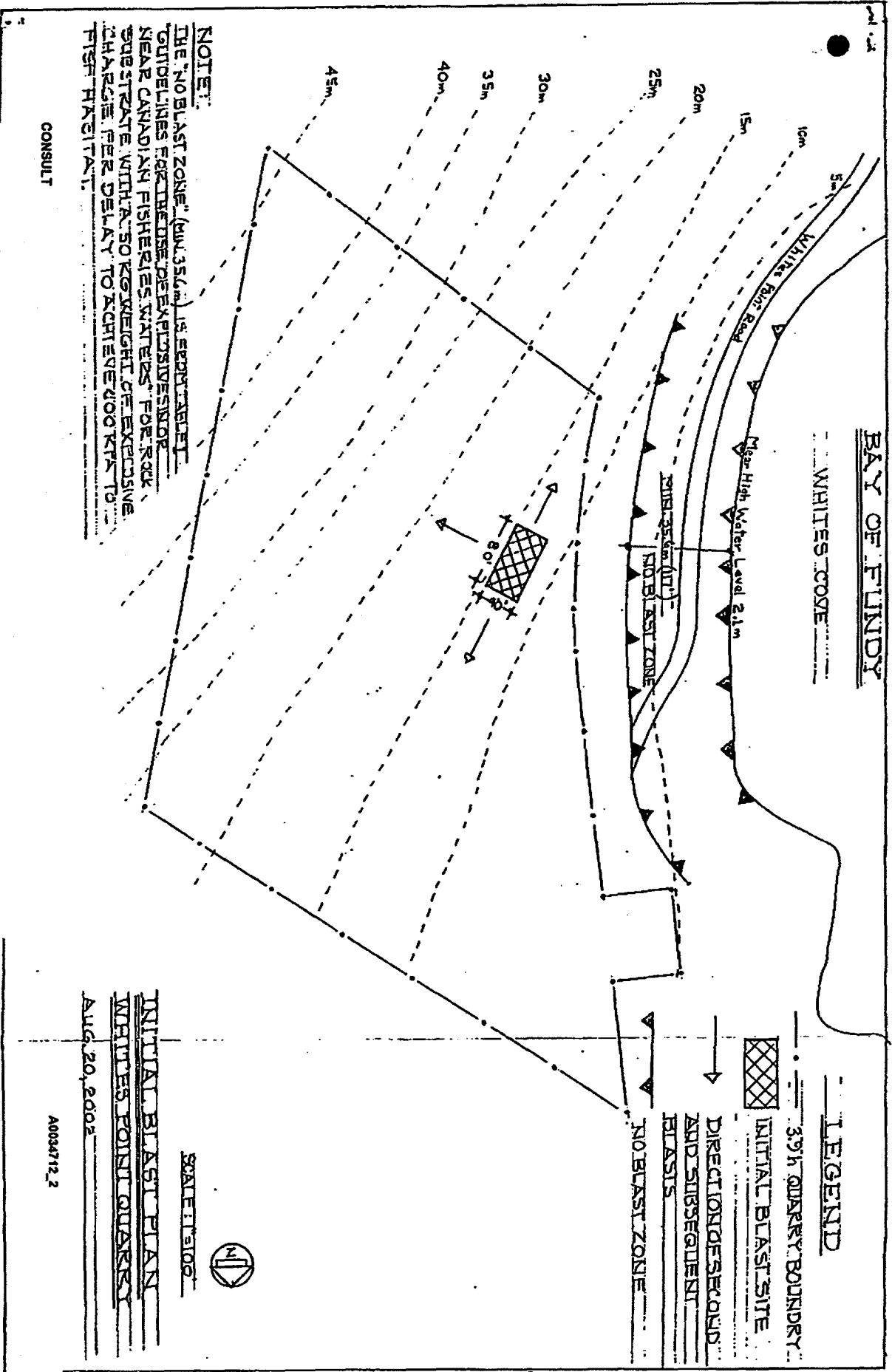
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10/30/02 WED 13:31 (TX/RX NO 8238)

BAY OF FUNDY

WHITES COVE



NOTE:
 THE "NO BLAST ZONE" (RADIUS 30m) IS ESTABLISHED
 OUTLINES FOR THE USE OF EXPLOSIVES IN
 NEAR CANADIAN FISHERIES WATERS FOR ROCK
 SUBSTRATE WITH A 50 KG WEIGHT OF EXPLOSIVE
 CHARGE PER DELAY TO ACHIEVE GOOD ROCK TO
 FISH HARVEST.

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LEGEND

- 39h QUARRY BOUNDARY
- INITIAL BLAST SITE
- DIRECTION OF SECOND AND SUBSEQUENT BLASTS
- NO BLAST ZONE

SCALE 1:100



INITIAL BLAST PLAN
 WHITES POINT QUARRY
 AUG. 20, 2002

A0034712.2