

ENVIRONMENT CANADA
MONITORING PROGRAM DATA
NOVA SCOTIA
FISCAL YEAR 1987/88

VOLUME - I

Dartmouth Env. Can. Lib./Bib.



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SUMMARY OF NOVA SCOTIA MONITORING DATA

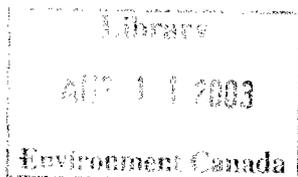
These documents (Volume I, Volume II) are a collection of the analytical data for surveys conducted as it relates to the E.P. work plans and to the joint monitoring program of the Federal Department of Environment and the Nova Scotia Department of Environment for the fiscal year 1987/88.

Data collected is applied as an indication of whether companies under regulations or guidelines are in compliance, new or expanded companies are meeting the pollution clauses set down as a condition of monies recieved from DRIE/ACOA and to identify situations that may require legal action be taken if the responsible companies (persons) are unwilling to take corrective measures.

Topographical maps and sketches of the effluent treatment systems accompany most of the analytical results. This will ensure that the consistency of monitoring will be maintained when and if the surveys are repeated.

A break down of industries monitored are as follows:

Type of Industry	Completed Surveys	Legal Surveys	Unscheduled Surveys
Textile	2	6	4
Mining	27		
Chlor alkali	1		
Metal finishers	5		
Refineries	2	4	1
Wood preservers	2		
Pulp and Paper	3	1	
Federal Facilities	5		
Food processing	1		5
Power Corporation	1		
Fish			2
Landfill sites	1		
Receiving water			3
Municipal			3



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INDEX

- (A) Aerovox
 - Amherst Dump Site
 - Atlantic Hardchrome (2 surveys)
- (B)
- (C) Canexel Hardboard Inc.
 - Canso Chemicals
 - Crossley Karastan Carpet Mills Ltd.
- (D) DEVCO Kilkenny Lake (2 surveys)
 - Victoria Junction Coalwash
 - Domtar Chemicals - Sifto Salt
 - Wood Preserving Division (2 surveys)
 - Salmon River (2 surveys)
- (E) Enheat Ltd.
- (F)
- (G)
- (H) Halifax International Airport - Airport Runoff (6 surveys)
 - Bennery Brook
 - Black Brook
 - Fish Hawk Nest River
 - Holland Brook
 - McDowell Brook
 - Johnson River
 - Salmon River
 - South End of Runway
 - Sandy Cole Brook
- Hermes Woodside
- (I) Imperial Oil Refinery
- (J)
- (K)
- (L)
- (M) Michelin Tire (Granton)
- (N) Northumberland Mines (Cochrane Hill)
- (O)
- (P) Pioneer Coal, Sydney

(Q)

(R) Rio Algom Tin Mine, East Tuskent River (3 surveys)

(S) Seabright Resources - Beaver Dam (5 surveys)
- Caribou Mine (2 surveys)
- Copper Lake, Coxheath, Tangier (4 surveys)
- Forest Hills
- Gays River Mine

Scott Maritimes Ltd. (3 surveys)

Stora Forest Products

Surette Battery (6 surveys)

Sydney Steel Corporation

(T) Texaco Oil Refinery (4 surveys)

(U)

(V)

(W) Windsor Salt, Pugwash

(X)

(Y)

(Z) Zenith Electroplating

1	472423	654923	BRUNSWICK MINING & SMELTING	6 BATHURST	NB	BASE METAL
1	450045	632500	NATIONAL GYPSUM	MILFORD STATION	NS	BASE METAL
1	460000	605600	LITTLE NARROWS	LITTLE NARROWS	NS	BASE METAL
1	454800	611300	GEORGIA PACIFIC RIVER DENYS	RIVER DENYS	NS	BASE METAL
1	454130	611900	GEORGIA PACIFIC SUGAR CAMP L.	RIVER DENYS	NS	BASE METAL
1	454345	602600	STIRLING	STIRLING	NS	BASE METAL
1	451140	655445	GORDEX	CAPE SPENCER	NB	BASE METAL
1	454820	603230	KAISER MILL	LAKE ENON	NS	BASE METAL
1	451620	631430	NYSTONE MINE	UPPER BROOKFIELD	NS	BASE METAL
1	448630	654200	RIO ALGOM TIN MINE	EAST-KEMPTVILLE	NS	BASE METAL
1	454730	603730	NOVEX MINE	LAKE ENON	NS	BASE METAL
1	445900	640500	FUNDY GYPSUM	WINDSOR	NS	BASE METAL
1	472837	655248	BRUNSWICK MINING & SMELTING	12 BATHURST	NB	BASE METAL
1	452528	664914	MOUNT PLEASANT	ST GEORGE	NB	BASE METAL
1	455058	670209	LAKE GEORGE ANTIMONY	FREDERICTON	NB	BASE METAL
1	473344	661717	ANACONDA CARIBOU MINE	BATHURST	NB	BASE METAL
1	495500	561000	ADVOCATE MINES LTD.	BAIE VERTE	NB	BASE METAL
1	480330	662246	BM&S ORE LOADING FACILITY	DALHOUSIE	NB	BASE METAL
1	471729	660413	HEATH STEELE	NEWCASTLE	NB	BASE METAL
1	474412	654812	NIGADOO RIVER MINE	NIGADOO	NB	BASE METAL
0	445230	633108	HALIFAX INTERNATIONAL AIRPORT	HALIFAX COUNTY	NS	BASE METAL
1	455134	602438	YAVA MINES—MINE	CAPE BRETON	NS	BASE METAL
99	450010	632033	GAYS RIVER MILL	GAYS RIVER	NS	BASE METAL
99	445507	632943	OLDHAM	OLDHAM	NS	BASE METAL
99	444250	633111	MONTAGUE	MONTAGUE	NS	BASE METAL
99	450404	624334	BEAVER DAM	BEAVER DAM	NS	BASE METAL
99	451845	614520	FOREST HILLS	FOREST HILLS	NS	BASE METAL
99	450330	625630	CARIBOU	CARIBOU MINES	NS	BASE METAL
99	451500	620030	COCHRANE HILL	SHERBROOKE	NS	BASE METAL
99	450720	620110	GOLDENVILLE	SHERBROOKE	NS	BASE METAL
1	490900	552100	ORE LOADING, BOTWOOD, ASARCO	UNKNOWN	NFLD	BASE METAL
1	500700	573700	NEWFOUNDLAND ZINC MINES LTD	DANIELS HARBOUR	NFLD	BASE METAL
0	443827	633231	DARTMOUTH ORE LOADING—GAYSMN	DARTMOUTH	NS	BASE METAL
1	485000	565200	AMERICAN SMELTING AND REFINING	BUCHANAN	NFLD	BASE METAL
2	4516	6603	MOOSEHEAD BREWERIES LIMITED	SAINT JOHN	NB	BREWERIES
2	4516	6603	LABATT'S NEW BRUNSWICK BREWERY	SAINT JOHN	NB	BREWERIES
2	455845	633642	OLAND BREWERIES LIMITED	HALIFAX	NS	BREWERIES
2	44200	633621	MOOSEHEAD BREWERIES LIMITED	DARTMOUTH	NS	BREWERIES
28	452054	631736	CROSSLEY KARASTAN CARPET MILLS	TRURO	NS	CARPET
3	4516	6603	T. DONOVAN & SON LIMITED	SAINT JOHN	NB	CHEMICAL
3	4522	6316	MUSKOL LIMITED	TRURO	NS	CHEMICAL
3	4440	6334	HOWARD INDUSTRIES LIMITED	DARTMOUTH	NS	CHEMICAL
4	480400	662412	CANADIAN INDUSTRIES LTD.	DALHOUSIE	NB	CHLORALKALI
4	451530	660530	IRVING OIL LTD. (REFINING DIVI	SAINT JOHN	NB	CHLORALKALI
4	453924	6243006	CANSO CHEMICALS LTD.	NEW GLASSCO	NS	CHLORALKALI
4	443812	603212	IMPERIAL OIL ENTERPRISES LTD.	EASTERN PASSAGE	NS	CHLORALKALI
4	453435	612030	GULF CANADA LTD.	PORT HAWKESBURY	NS	CHLORALKALI
4	4440	6334	TEXACO CANADA	DARTMOUTH	NS	CHLORALKALI
5	4703	6744	J.M.L. SHIRT LIMITED	GRAND FALLS	NB	CLOTHING
5	4544	6352	STANFIELD'S LIMITED	TRURO	NS	CLOTHING
5	4350	6607	BONDA TEXTILES LIMITED	YARMOUTH	NS	CLOTHING
5	443754	633406	DOVER MILLS LIMITED	HALIFAX	NS	CLOTHING
5	4440	6334	HELLY-HANSEN (CANADA) LIMITED	DARTMOUTH	NS	CLOTHING
5	452203	631642	STANFIELD'S LIMITED	TRURO	NS	CLOTHING
5	445847	652403	NOVA SCOTIA TEXTILES LIMITED	WINDSOR	NS	CLOTHING
6	461046	655600	N.B. COAL WASH PLANT	MINTO	NB	COAL MINE
6	460522	645047	COMBUSTION ENGINEERING SUPERHE	MONCTON	NB	COAL MINE
6	460415	655200	RANGE (7200) MINE	MINTO	NB	COAL MINE
6	460624	660500	EIGHTEEN BROOK NORTH (7400/500	MINTO	NB	COAL MINE
6	461000	600100	DEVCO LINGAN PHALEN STRIP MINE	CAPE BRETON	NS	COAL MINE
1	475309	655016	BM&S LEAD SMELTER	BELLEDUNE	NB	BASE METAL
6	454152	642217	RIVER HERBERT COAL COMPANY	RIVER HERBERT	NS	COAL MINE
6	461154	595654	QUARRY POINT (FORMERLY #4 COLL	SYDNEY	NS	COAL MINE
6	461745	601606	BLIND POINT (FORMERLY #4 COLL	SYDNEY	NS	COAL MINE

6	461820	601830 NOVACO LTD.	CAPE BRETON	NS	COAL MINE
6	464500	601330 SELMINCO PRINCESS COAL RECLAMA	SYDNEY MINES	NS	COAL MINE
6	461436	600240 LINGAN COLLIERY	SYDNEY	NS	COAL MINE
6	461506	601324 VICTORIA JUNCTION COAL PREPARA	SYDNEY	NS	COAL MINE
6	461224	600230 GARDINER MINES (FORMERLY #25 C	SYDNEY	NS	COAL MINE
6	462018	611112 EVANS COAL.	INVERNESS COUNT	NS	COAL MINE
6	461254	600118 DEVCO A-1 MINE	SYDNEY	NS	COAL MINE
6	461500	601315 CAPE BRETON DEV CORP-PRINCESS	SYDNEY MINES	NS	COAL MINE
6	453418	623924 STELLARTON COAL WASH PLANT.	STELLARTON	NS	COAL MINE
6	461500	600600 SELMINCO NEW WATERFORD COAL RE	CAPE BRETON	NS	COAL MINE
6	461148	595648 #26 COLLIERY	SYDNEY	NS	COAL MINE
6	461910	601730 BROGAN BROTHERS EAST STRIP MIN	CAPE BRETON	NS	COAL MINE
6	461124	594921 DEVCO DONKIN MORIEN MINE	CAPE BRETON	NS	COAL MINE
7	4627	6738 CARLETON CO-OPERATIVE LIMITED	FLORENCEVILLE	NB	DAIRIES
7	4800	6640 INTER-CITY DAIRY COMPANY LIMIT	CAMPBELLTON	NB	DAIRIES
7	4731	6723 LAITERIE MARTEL	SAINT-GUENTIN	NB	DAIRIES
7	4516	6603 BRAXCO LIMITED	SAINT JOHN	NB	DAIRIES
7	4606	6447 MCKAY'S DAIRY LIMITED	MONCTON	NB	DAIRIES
7	4516	6603 BAXTER DAIRIES LIMITED	SAINT JOHN	NB	DAIRIES
7	4700	6534 NORTHUMBERLAND CO-OPERATIVE LI	NEWCASTLE	NB	DAIRIES
7	4736	6539 DOUG RONALDS	BATHURST	NB	DAIRIES
7	4609	6735 SUNSHINE DAIRY (1978) LIMITED	WOODSTOCK	NB	DAIRIES
7	4703	6744 BELZILE ENTERPRISES LIMITED	GRAND FALLS	NB	DAIRIES
7	4558	6639 CAPITAL DAIRY FOODS LIMITED	FREDERICTON	NB	DAIRIES
7	4722	6820 CREMERIE BELZILE LTEE.	EDMUNDSTON	NB	DAIRIES
7	4543	6531 BAXTER DAIRIES LIMITED	SUSSEX	NB	DAIRIES
7	4522	6316 BROOKFIELD FOODS LIMITED	TRURO	NS	DAIRIES
7	444401	634230 TWIN CITIES CO-OPERATIVE DAIRY	HAMMONDS PLAINS	NS	DAIRIES
7	4550	6412 SCOTSBURN CO-OPERATIVE SERVICE	AMHERSTD	NS	DAIRIES
7	4339	6340 NEW GLASGOW DAIRYING COMPANY (	HUNTER RIVER	NS	DAIRIES
7	4423	6419 PENINSULA FARM LIMITED	LUNENBURG	NS	DAIRIES
7	4440	6334 TWIN CITIES CO-OPERATIVE DAIRY	DARTMOUTH	NS	DAIRIES
7	452212	631316 PRODUCERS MILK PRODUCTS LIMITE	HALIFAX	NS	DAIRIES
7	4350	6604 COOK'S DAIRY FARM LIMITED	ARCADIA	NS	DAIRIES
7	4522	6316 SCOTSBURN CO-OPERATIVE SERVICE	TRAUOTED	NS	DAIRIES
7	4537	6200 EASTERN DAIRY FOODS CO-OPERATI	ANTIGONISH	NS	DAIRIES
7	453912	625118 SCOTSBURN CO-OPERATIVE SERVICE	SCOTSBURN	NS	DAIRIES
7	4339	6340 HEALTH PASTEURIZED MILK COMPAN	HUNTER RIVER	NS	DAIRIES
7	453912	625118 SCOTSBURN CO-OPERATIVE SERVICE	STELLARTON	NS	DAIRIES
7	452212	631316 TWIN CITIES CO-OPERATIVE DAIRY	MIDDLETON	NS	DAIRIES
7	452108	631624 BROOKFIELD FOODS LIMITED	AMHERST	NS	DAIRIES
7	4505	6430 CORNWALLIS DAIRY LIMITED	KENTVILLE	NS	DAIRIES
7	4543	6318 SCOTSBURN CO-OPERATIVE SERVICE	TATAMAGOUCHE	NS	DAIRIES
7	4609	6011 MODERN CITY DAIRY LIMITED	SYDNEY	NS	DAIRIES
7	4550	6412 FLETCHER COATES' DAIRY LIMITED	AMHERST	NS	DAIRIES
7	4609	6011 CAPE BRETON DAIRYMENS' CO-OP S	SYDNEY	NS	DAIRIES
7	4440	6334 BAXTER DAIRIES LIMITED	DARTMOUTH	NS	DAIRIES
7	4618	6320 THE WILTSHIRE DAIRYING COMPANY	NORTH WILTSHIRE	PEI	DAIRIES
7	4614	6330 CRAPAUD CREAMERY COMPANY	CRAPAUD	PEI	DAIRIES
7	4649	6404 WEST PRINCE DAIRY (1975) LIMIT	ALBERTON	PEI	DAIRIES
7	4621	6215 SOURIS BUTTERCUP DAIRY	SOURIS	PEI	DAIRIES
7	4624	6347 AMALGAMATED DAIRIES LIMITED	SUMMERSIDE	PEI	DAIRIES
7	4624	6347 IDEAL DAIRY LIMITED	SUMMERSIDE	PEI	DAIRIES
7	4614	6308 PERFECTION FOODS LIMITED	CHARLOTTETOWN	PEI	DAIRIES
7	4614	6308 THE PURE MILK COMPANY	CHARLOTTETOWN	PEI	DAIRIES
7	4624	6347 MAPLE LEAF DAIRY (1973) LIMITE	SUMMERSIDE	PEI	DAIRIES
7	4614	6308 PURITY DAIRY LIMITED	CHARLOTTETOWN	PEI	DAIRIES
7	4605	6253 FEDERAL DAIRYING COMPANY	BELFAST	PEI	DAIRIES
7	4610	6239 MONTAGUE DAIRY LIMITED	MONTAGUE	PEI	DAIRIES
8	464142	645142 ATLANTIC DISTILLERS LTD	RICHEBUCTO	NB	DISTILLERS
8	445039	651743 ACADIAN DISTILLERS LTD.	BRIDGETOWN	NS	DISTILLERS
9	474729	645516 CHANNEL FABRICS LTD.	CARAQUET	NB	FABRIC
9	444421	631401 CANFLOCK INDUSTRIES INC.	CHEZZETCOOK	NS	FABRIC
10	4754	6552 BELLEFUNE SCOTT 1700	PEI	NS	FABRIC

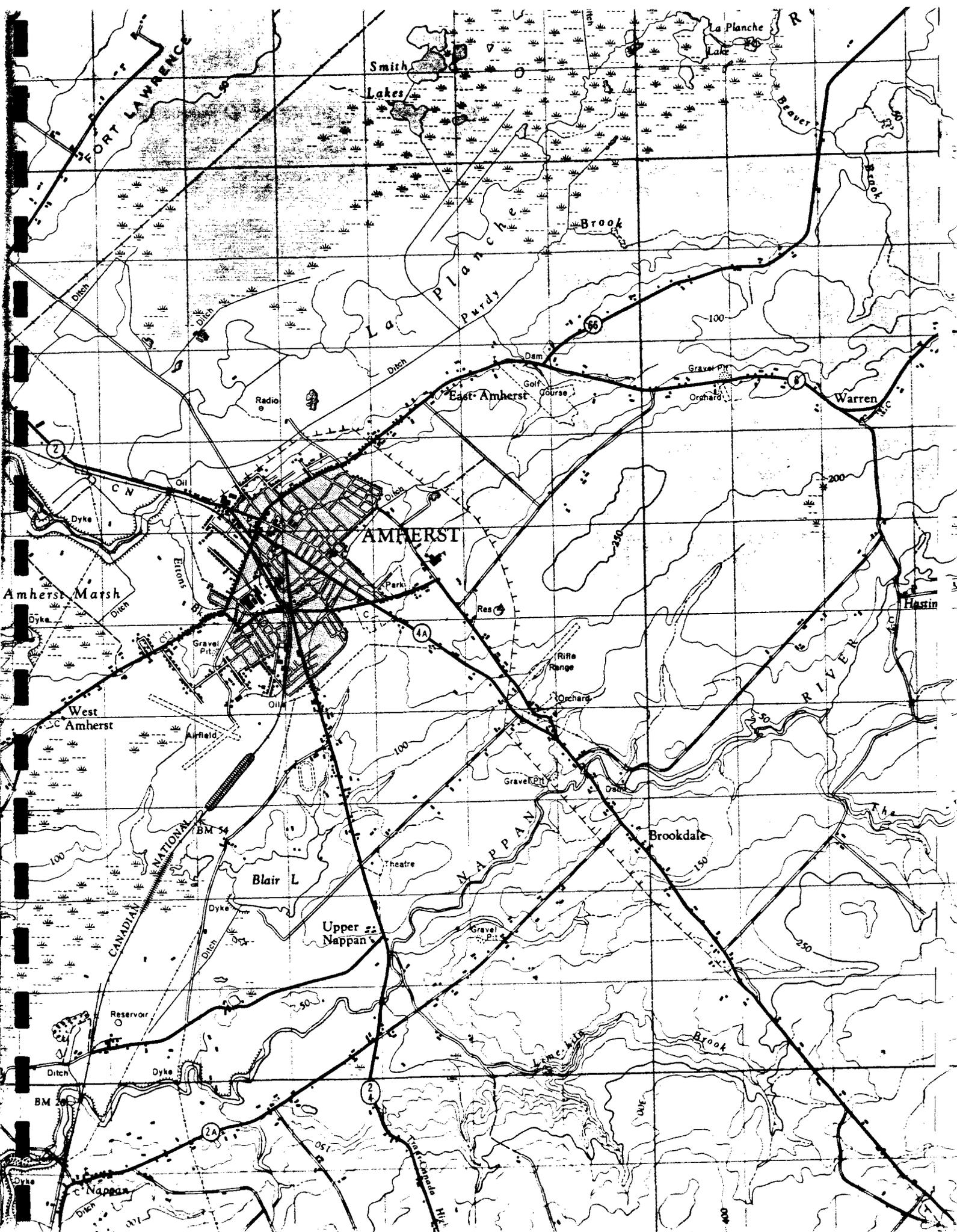
11	4330	6541 R. & D. NICKERSON FISH PRODUCTS	LOWER SHAG HARB	NS	FISH WASTE
11	4638	6101 CHETICAMP FISHERMENS' CO-OP	SO CHETICAMP	NS	FISH WASTE
11	435619	660906 C. & A. BAIN FISHERIES LIMITED	YARMOUTH	NS	FISH WASTE
11	4439	6336 SEAGLOBE INC.	HALIFAX	NS	FISH WASTE
11	4348	6553 RALPH CROWELL EEL PROCESSOR	GLENWOOD	NS	FISH WASTE
11	4637	6355 BURLEIGH BROTHERS	EAST BIDEFORD	PEI	FISH WASTE
11	4621	6215 SOURIS SEAFOODS LIMITED	SOURIS	PEI	FISH WASTE
11	4632	6341 MALPEQUE FISHERMENS' CO-OP ASS	MALPEQUE	PEI	FISH WASTE
11	4615	6342 ISLAND SEAFOODS LIMITED	BORDEN	PEI	FISH WASTE
11	4636	6357 FREELAND OYSTER CO-OP ASSOCIAT	ELLERSLIE	PEI	FISH WASTE
11	4636	6357 SMITH BROTHERS	ELLERSLIE	PEI	FISH WASTE
11	4614	6308 NATIONAL SEA PRODUCTS LIMITED	CHARLOTTETOWN	PEI	FISH WASTE
11	4649	6404 ALBERTON FISHERIES LIMITED	ALBERTON	PEI	FISH WASTE
11	4624	6347 NATIONAL SEA PRODUCTS LIMITED	SUMMERSIDE	PEI	FISH WASTE
11	4636	6357 INVERNESS OYSTER CO-OP	ELLERSLIE	PEI	FISH WASTE
11	4614	6308 BOATES (P.E.I.) LIMITED	CHARLOTTETOWN	PEI	FISH WASTE
11	4610	6239 MACDONALD & GRAHAM INC.	MONTAGUE	PEI	FISH WASTE
11	4622	6330 CARR'S LOBSTER POUND	BREADALBANE	PEI	FISH WASTE
11	4657	6402 TIGNISH FISHERIES CO-OP ASSOCI	TIGNISH	PEI	FISH WASTE
11	4653	6414 EDWARD J. BALLANT & SONS LIMITE	MININGASH	PEI	FISH WASTE
11	4600	6231 MURRAY HARBOUR SEAFOODS LIMITE	MURRAY HARBOUR	PEI	FISH WASTE
11	4611	6232 GEORGETOWN PACKERS LIMITED	GEORGETOWN	PEI	FISH WASTE
11	4621	6215 UNITED MARITIME FISHERMEN	SOURIS	PEI	FISH WASTE
11	4625	6242 INTERNATIONAL SEAFOODS LIMITED	MORELL	PEI	FISH WASTE
11	4625	6242 BABINEAU FISHERIES LIMITED	MORELL	PEI	FISH WASTE
11	4614	6308 MERMAID SEA PRODUCTS LIMITED	CHARLOTTETOWN	PEI	FISH WASTE
11	4621	6215 USEN FISHERIES LIMITED	SOURIS	PEI	FISH WASTE
11	4624	6347 NEW HORIZONS LIMITED	SUMMERSIDE	PEI	FISH WASTE
11	4614	6308 DEBLOIS LIKELY LIMITED	CHARLOTTETOWN	PEI	FISH WASTE
11	4632	6341 NORTH SHORE PACKING COMPANY LI	MALPEQUE	PEI	FISH WASTE
11	4614	6308 W.B. JOSEY	CHARLOTTETOWN	PEI	FISH WASTE
11	4610	6239 P.E.I. MUSSEL KING INC.	MONTAGUE	PEI	FISH WASTE
11	4611	6232 GEORGETOWN SEAFOODS LIMITED	GEORGETOWN	PEI	FISH WASTE
11	4614	6308 KENNIE MACWILLIAMS SEAFOODS	CHARLOTTETOWN	PEI	FISH WASTE
11	4610	6239 WENDELL GRAHAM LIMITED	MONTAGUE	PEI	FISH WASTE
11	4616	6310 NORTHUMBERLAND SEAFOODS LIMITE	WEST ROYALTY	PEI	FISH WASTE
11	4627	6319 NORTH RUSTICO FISHERMAN'S CO-O	NORTH RUSTICO	PEI	FISH WASTE
11	4624	6347 POLAR QUICK FREEZING COMPANY L	SUMMERSIDE	PEI	FISH WASTE
11	4600	6231 KEEPINS AND MACKAY LIMITED	MURRAY HARBOUR	PEI	FISH WASTE
12	4516	6603 BROOKE BOND INC.	SAINT JOHN	NB	FOOD PROC
12	450900	642415 G.E. BARBOUR COMPANY LIMITED	SUSSEX	NB	FOOD PROC
12	4516	6603 CROSBY MOLASSES COMPANY LIMITE	SAINT JOHN	NB	FOOD PROC
12	4516	6603 CHAN FOODS PRODUCTS LIMITED	SAINT JOHN	NB	FOOD PROC
12	470222	674439 PIRIE POTATO COMPANY LIMITED	GRAND FALLS	NB	FOOD PROC
12	450900	642415 MIC MAC EGG PROCESSORS LIMITED	PORT WILLIAMS	NS	FOOD PROC
12	443824	634122 W.H. SCHWARTZ AND SONS LIMITED	HALIFAX	NS	FOOD PROC
12	461746	673106 HUMPTY-DUMPTY FOODS LIMITED	HARTLAND	NS	FOOD PROC
12	450430	642524 HOSTESS FOOD PRODUCTS LIMITED	KENTVILLE	NS	FOOD PROC
13	462657	673648 MCCAIN FOODS LIMITED	FLORENCEVILLE	NB	FRUIT-VEG
13	4606	6447 CLOVER PRODUCE LIMITED	MONCTON	NB	FRUIT-VEG
13	478344	647635 MCCAIN FOODS LIMITED	GRAND FALLS	NB	FRUIT-VEG
13	450520	642242 CANVIN PRODUCTS LIMITED	KENT F	NS	FRUIT-VEG
13	450600	642418 AVON FOODS LIMITED	PORT WILLIAMS	NS	FRUIT-VEG
13	4506	6425 AVON FOODS LIMITED	PORT WILLIAMS	NS	FRUIT-VEG
13	454412	635212 OXFORD FROZEN FOODS LIMITED	OXFORD	NS	FRUIT-VEG
13	450841	642451 M.W. GRAVES & COMPANY	HILLATON	NS	FRUIT-VEG
13	4539	6403 CAVENDISH FARMS	SPRINGHILL	NS	FRUIT-VEG
13	450404	643448 SCOTIAN GOLD CO-OPERATIVE LIM	KENTVILLE	NS	FRUIT-VEG
13	450444	643019 M.W. GRAVES & COMPANY	KENTVILLE	NS	FRUIT-VEG
13	450239	644318 M.W. GRAVES & COMPANY	BERWICK	NS	FRUIT-VEG
13	4620	6342 CAMPBELL & BURNS LIMITED	CENTRAL BEDEQUE	PEI	FRUIT-VEG
13	462527	634059 CAVENDISH FARMS LIMITED	SUMMERSIDE	PEI	FRUIT-VEG
39	460948	595724 ATOMIC ENERGY OF CANADA LTD.	GLACE BAY	NS	HEAVY WATER
39	452106	612106 ATOMIC ENERGY OF CANADA LTD.	0007 TUNBR	NS	HEAVY WATER

14	444902	652004	BRITEK LIMITED	BRIDGETOWN	NS	INDUSTRIAL
15	450303	644504	LARSEN PACKERS LIMITED	BERWICK	NB	MEAT-POULTRY
15	474006	650650	SALAISSON GAUVIN 1976 LIMITEE	PAQUETVILLE	NB	MEAT-POULTRY
15	471431	624243	NADEAU POULTRY FARM LIMITED	SAINT-FRANCOIS-	NB	MEAT-POULTRY
15	4543	6531	SUSSEX POULTRY DIVISION OF CAN	SUSSEX	NB	MEAT-POULTRY
15	460423	645015	HJB MEAT PACKERS LIMITED	MONCTON	NB	MEAT-POULTRY
15	4543	6531	SUSSEX CONCENTRATE LIMITED	SUSSEX	NB	MEAT-POULTRY
15	455439	663648	CHIPPIN BROTHERS LIMITED	FREDERICTON	NB	MEAT-POULTRY
15	450754	642708	CANADA PACKERS LTD CANARD POUL	KENTVILLE	NS	MEAT-POULTRY
15	4522	6316	MARITIME PROCESSING COMPANY LI	TRURO	NS	MEAT-POULTRY
15	4609	6011	GAINERS INC.	SYDNEY	NS	MEAT-POULTRY
15	445928	643152	F.DANSART CONCENTRATES LIMITED	KENTVILLE	NS	MEAT-POULTRY
15	4505	6430	EASTERN PROTEIN FOODS LIMITED	KENTVILLE	NS	MEAT-POULTRY
15	450900	642415	O.H.ARMSTRONG LIMITED	KINGSTON	NS	MEAT-POULTRY
15	450454	642500	A.C.A.CO-OPERATIVE ASSOCIATION	NEW MINAS	NS	MEAT-POULTRY
15	4618	6311	ISLAND MEAT PACKERS LIMITED	WINSLOE	PEI	MEAT-POULTRY
15	461427	630700	CANADA PACKERS LIMITED	CHARLOTTETOWN	PEI	MEAT-POULTRY
16	472212	601927	SQUARE D COMPANY OF CANADA LIM	EDMUNSTON	NB	METAL FINISH
16	445248	633112	IMP AEROSPACE LIMITED	DARTMOUTH	NS	METAL FINISH
16	444200	633610	SIVACO MARITIMES LTD.	DARTMOUTH	NS	METAL FINISH
16	444036	633606	ZENITH PLATING MARITIME LTD.	DARTMOUTH	NS	METAL FINISH
16	454848	641306	AEROVOX CANADA LTD.	AMHERST	NS	METAL FINISH
16	444036	633606	ATL HARDCHROME & CRANKSHAFT RE	DARTMOUTH	NS	METAL FINISH
16	454935	641300	ENHEAT INC.	AMHERST	NS	METAL FINISH
16	460900	601406	INTERNAV LIMITED	SYDNEY	NS	METAL FINISH
16	443835	633235	HERMES ELECTRONICS LTD.	DARTMOUTH	NS	METAL FINISH
16	454950	641140	ATLANTIC GALVANIZERS LTD.	AMHERST	NS	METAL FINISH
43	4537	6238	TIBBETS PAINT LTD.	TRENTON	NS	PAINT
17	451630	600145	COURTENAY BAY GENERATING STATI	SAINT JOHN	NB	POWER GEN
17	450329	662742	POINT LEPREAU GENERATING STATI	ST JOHN	NB	POWER GEN
17	450920	661154	COLESON COVE GENERATING STATIO		NB	POWER GEN
17	470210	652757	CHATHAM GENERATING STATION		NB	POWER GEN
17	480310	662230	DALHOUSIE GENERATING STATION		NB	POWER GEN
17	461020	595710	GLACE BAY GENERATING STATION		NS	POWER GEN
17	454310	641600	MACAN GENERATING STATION		NS	POWER GEN
17	443828	633354	WATER STREET GENERATING STATIO	HALIFAX	NS	POWER GEN
17	453720	623900	TRENTON GENERATING STATION	TRENTON	NS	POWER GEN
17	460328	660010	GRAND LAKE GENERATING STATION		NS	POWER GEN
17	444050	633600	NSPC TUFT'S COVE	DARTMOUTH	NS	POWER GEN
17	461355	600230	LINGAN GENERATING STATION		NS	POWER GEN
17	453516	612109	POINT TUPPER GENERATING STATIO	PORT TUPPER	NS	POWER GEN
17	461427	630700	CH'TN GENERATING STATION		PEI	POWER GEN
18	465824	653312	ACADIA FOREST PRODUCTS LTD.	NELSON-MIRAMICH	NB	PULP MILL
18	460000	671300	ST-ANNE-NACKAWIC PULP AND PAPE	NACKAWIC	NB	PULP MILL
18	472218	682000	FRASER COMPANIES LTD.	ATHOLVILLE	NB	PULP MILL
18	480400	662230	NBIP FOREST PRODUCTS INC	DALHOUSIE.	NB	PULP MILL
18	473642	653830	CONSOLIDATED-BATHURST INC.	BATHURST	NB	PULP MILL
18	485735	575800	CORNERBROOK PULP/PAPR HOLD LTD	CORNERBROOK	NFLD	PULP MILL
18	451536	660548	IRVING PULP AND PAPER LTD.	ST. JOHN	NB	PULP MILL
18	483200	583100	ABITIBI PRICE INC. (STEPHENWILL	STEPHENVILLE	NFLD	PULP MILL
18	475930	664324	FRASER COMPANIES LTD.	EDMUNSTON	NB	PULP MILL
18	451536	660548	KIMBERLEY CLARK OF CANADA LTD	SAINT-JOHN	NB	PULP MILL
18	465812	653540	REPAP ENTERPRISES	NEWCASTLE	NB	PULP MILL
18	451630	660130	MACMILLAN ROTHESAY LTD	ST. JOHN	NB	PULP MILL
18	453542	612142	NOVA SCOTIA FOREST INDUSTRIES.	PORT HAWKESBURY	NS	PULP MILL
18	4504	6410	MINAS BASIN PULP AND POWER.	HANTSPORT	NS	PULP MILL
18	440305	644150	CANADIAN KEYES FIBER	HANTSPORT	NS	PULP MILL
18	443500	640948	CANEXEL INC	HUBBARDS	NS	PULP MILL
18	440300	644154	BOWATERS MERSEY PAPER COMPANY	LIVERPOOL	NS	PULP MILL
18	485600	563900	ABITIBI PRICE GRANFALLS DIV	GRANFALLS	NFLD	PULP MILL
18	453915	624200	SCOTT MARITIMES LTD.	NEW GLASGOW	NS	PULP MILL
18	450920	664506	LAKE UTOPIA PAPER LTD.	ST. GEORGE	PEI	PULP MILL
19	454540	652525	POTASH COMPANY OF AMERICA	SUSSEX	NB	SALT MINE
19	453338	653417	DENISON MINES LTD.	SUSSEX	NR	SALT MINE

47	453912	640400	SURRETTE BATTERY COMPANY LTD.	SPRINGHILL	NS	SMELTER
48	461013	612845	SYDNEY STEEL CORPORATION	SYDNEY	NS	STEEL
49	453635	623830	HAWKER SIDDELEY CANADA LTD.	MAIN ST. TRENTO	NS	STEEL MANUF
21	4512	6717	GANONG BROTHERS LIMITED	ST. STEPHEN	NB	SUGAR
21	451548	660329	ATLANTIC SUGAR LIMITED	SAINT JOHN	NB	SUGAR
21	4550	6412	LIFE SAVERS LIMITED	AMHERST	NS	SUGAR
21	443856	633241	MOIRS PLANT LOWNEY INC.	DARTMOUTH	NS	SUGAR
22	450900	642415	BRIGGS & LITTLE WOOLEN MILLS L	HARVEY STATION	NB	TEXTILES
22	4606	6447	SCOTIA TEXTILE LIMITED	MONCTON	NB	TEXTILES
22	4558	6639	LYON INDUSTRIES (1976) LIMITED	FREDERICTON	NB	TEXTILES
22	4505	6703	COTTAGE CRAFT LIMITED	SAINT ANDREWS	NB	TEXTILES
22	450419	643222	HUYCK CANADA LIMITED FORMEX FA	KENTVILLE	NS	TEXTILES
22	4432	6550	MACAUSLAND'S WOOLEN MILLS LIM	BLOOMFIELD	NS	TEXTILES
22	435052	660703	DOMINION TEXTILE INC.	YARMOUTH	NS	TEXTILES
52	442306	643230	MICHELIN TIRE.	BRIDGEWATER	NS	TIRE
52	453724	624412	MICHELIN TIRE	GRANTON	NS	TIRE
23	4710	6756	TISSERANDS MADAWASKA WEAVERS L	SAINT-LEONARD	NB	WEAVER
23	4722	6820	GANTERIE CANADIENNE LTEE.	EDMUNDSTON	NB	WEAVER
24	4608	6434	CHATEAU-GAI WINES	SCUDOUIC	NB	WINES
24	450900	642415	ANDRES WINES ATLANTIC LIMITED	TRURO	NS	WINES
24	4505	6430	CHIPMAN WINES LIMITED	KENTVILLE	NS	WINES
25	4810	5358	NEWFOUNDLAND HARDWOODS	CLARENCEVILLE	NFLD	WOOD PRES
25	4541	6641	ATLANTIC PRESSURE TREATING LTD	TRACY	NB	WOOD PRES
25	465925	653510	DOMTAR WOOD PRESERVING	NEWCASTLE	NB	WOOD PRES
25	452230	631630	DOMTAR WOOD PRESERVING.	TRURO	NS	WOOD PRES
25	4544	6107	NORTHWOOD PULP & TIMBER LTD (P	MORRISON'S COVE	NS	WOOD PRES
25	4513	6300	MARITIME WOOD PRESERVERS	UPPER STEWIAK	NS	WOOD PRES
50	46094	62390	STP (POP: 1823) MONTAGUE		PEI	MUNICIPAL
50	46105	62313	STP (POP: 790) GEORGETOWN		PEI	MUNICIPAL
50	46210	62144	STP (POP: 1468) SOURIS		PEI	MUNICIPAL
50	46245	62420	STP (POP: 387) MORELL		PEI	MUNICIPAL
50	46133	63052	STP (POP: 1768) BUNBURY-SOUTHPORT		PEI	MUNICIPAL
50	46144	63064	STP (POP: 2340) PARKDALE TOWN		PEI	MUNICIPAL
50	46140	63083	STP (POP: 28000) CHARLOTTETOWN		PEI	MUNICIPAL
50	46132	63125	STP (POP: 1248) CORNWALL		PEI	MUNICIPAL
50	46140	63294	STP (POP: 318) CRAPAUD		PEI	MUNICIPAL
50	46273	63184	STP (POP: 722) NORTH RUSTICO		PEI	MUNICIPAL
50	46215	62521	STP (POP: 365) MOUNT STEWART		PEI	MUNICIPAL
50	46150	63420	STP (POP: 575) BORDEN		PEI	MUNICIPAL
50	46192	63344	STP (POP: 277) KINKORA		PEI	MUNICIPAL
50	46254	63383	STP (POP: 1112) KENSINGTON		PEI	MUNICIPAL
50	46234	63473	STP (POP: 9439) SUMMERSIDE		PEI	MUNICIPAL
50	46254	63481	STP (POP: 2468) ST. ELENORS VILLAGE		PEI	MUNICIPAL
50	46262	63521	STP (POP: 729) MISCOUCHE		PEI	MUNICIPAL
50	46271	64045	STP (POP: 317) ABRAMS VILLAGE		PEI	MUNICIPAL
50	46270	64000	STP (POP: 355) WELLINGTON		PEI	MUNICIPAL
50	46344	63555	STP (POP: 164) TYNE VALLEY		PEI	MUNICIPAL
50	46422	64125	STP (POP: 802) O'LEARY		PEI	MUNICIPAL
50	46482	64034	STP (POP: 1058) ALBERTON		PEI	MUNICIPAL
50	46564	64014	STP (POP: 1062) TIGNISH		PEI	MUNICIPAL
50	47300	64542	STP (POP: 2452) TRACADIE		NB	MUNICIPAL
50	47304	67233	STP (POP: 2334) SAINT QUENTIN		NB	MUNICIPAL
50	47384	67205	STP (POP: 1222) KEDGWICK		NB	MUNICIPAL
50	48001	66413	STP (POP: 9818) CAMPBELLTON		NB	MUNICIPAL
50	47594	66434	STP (POP: 1694) ATHOLVILLE		NB	MUNICIPAL
50	48011	66250	STP (POP: 1431) EEL RIVER CROSSING		NB	MUNICIPAL
50	48040	66241	STP (POP: 5707) DALHOUSIE		NB	MUNICIPAL
50	47582	66265	STP (POP: 1823) BALMORAL		NB	MUNICIPAL
50	47594	66182	STP (POP: 1603) CHARLO		NB	MUNICIPAL
50	47590	66454	STP (POP: 952) TIDE HEAD		NB	MUNICIPAL
50	47143	68420	STP (POP: 753) ST. FRANCOIS DE MADAWASKA		NB	MUNICIPAL
50	47150	68361	STP (POP: 915) CLAIR		NB	MUNICIPAL
50	47180	68303	STP (POP: 527) BAKER BROOK		NB	MUNICIPAL
50	47171	68241	STP (POP: 244) SAINT JAMES		NB	MUNICIPAL

A

A E R O V O X



PORT LAWRENCE

Smith Lakes

La Planche Lake
Beaver Brook

La Planche Brook
Purdy Brook

East Amherst
Golf Course

Gravel Pit
Orchard

Warren

AMHERST

Amherst Marsh

West Amherst

Blair L.

Upper Nappan

NAPPAN RIVER

Brookdale

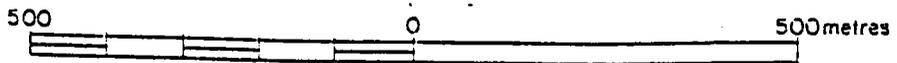
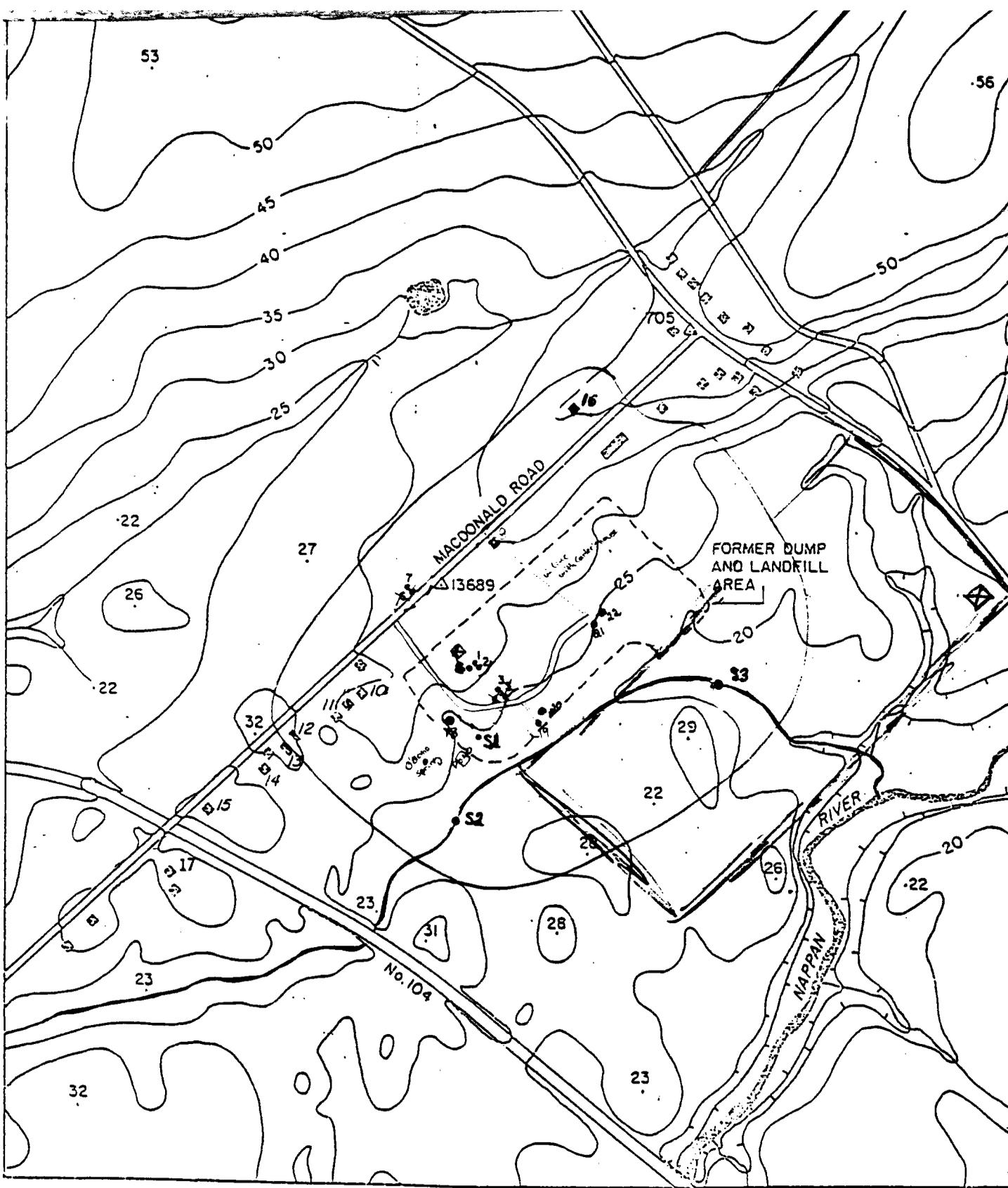
Reservoir

Nappan

Nappan

North Columbia Mill

Brook



SCALE 1:10000

MACDONALD ROAD LANDFILL, AMHERST, N.S.

- ☒ ---- PCB BURIAL SITE
- ---- LANDFILL MONITORING WELL
- ^g ---- DOMESTIC MONITORING WELL
- ---- SURFACE WATER MONITORING STATION

* 87NS023 - NOVA SCOTIA STATUS AS OF APR 7, 1988 *

REGISTERED ON: NOV 19, 1987; BY :NS

LOCATOR: AERVOX01/AEROVOX
FINAL EFFLUENT

PROV: NS

NORMAL ANALYSIS: 1,56

PROJECT CODE: 265/LAB SUPPORT - PREV & CONTR WATER POLL

SAMPLING BEGAN; DATE: 17/11/87 (NOV 17, 1987); TIME: 1100; FREQ: 3

SAMPLING ENDED; DATE: 17/11/87 (NOV 17, 1987); TIME: 1330

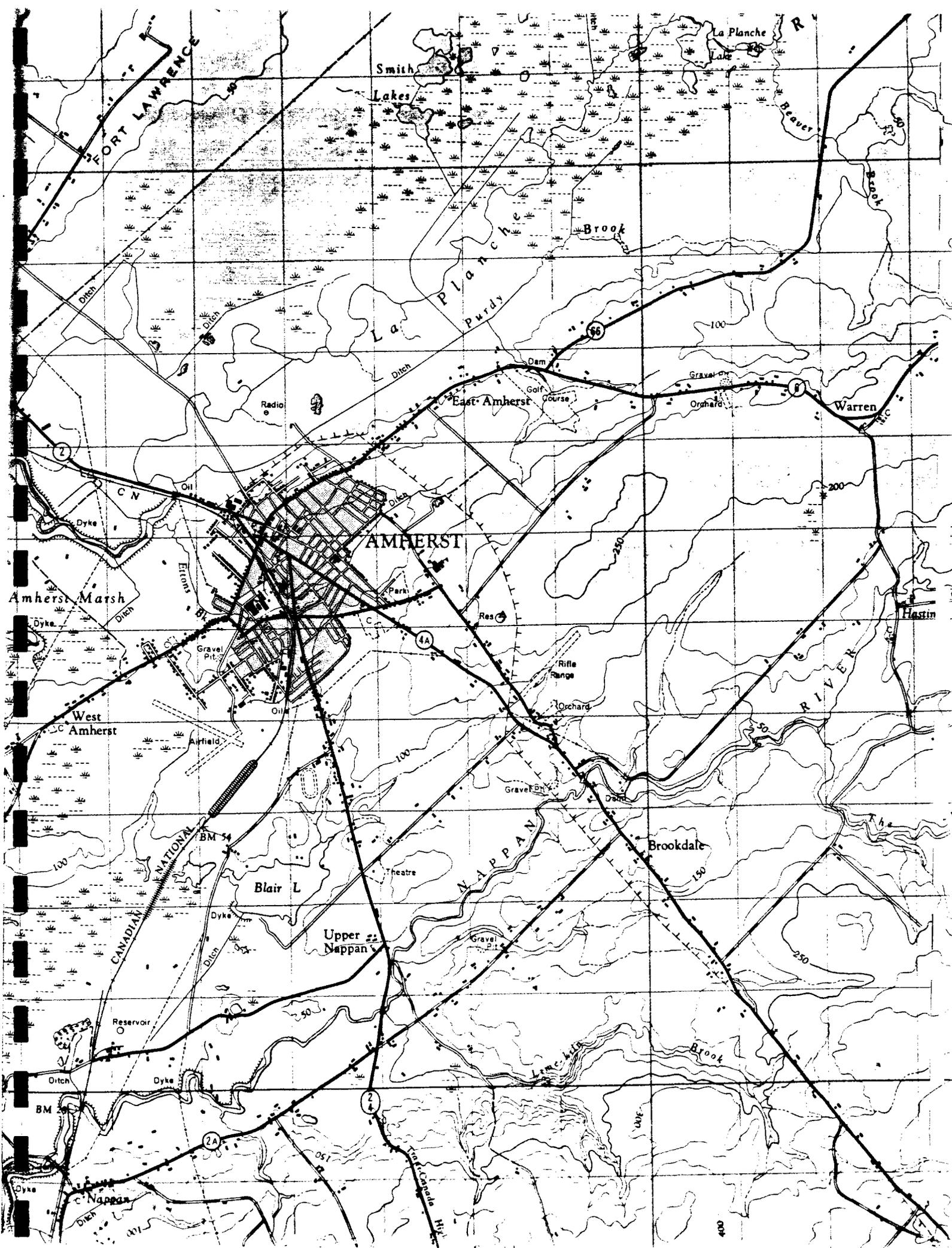
DEPTH: .00 METERS; TIDE:

NARRATIVE: SEND COPY TO PENNY MCLEOD

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	056 /POLYCHLORIN. BIPHENYLS (PCB)..	LO.0001		MG/L
2:	632 /DI-N-OCTYL PHTHALATE	LO.003		MG/L

AMHERST DUMP SITE



REGISTERED ON: AUG 28, 1987, BY :CHEMLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 267/TECH SERV TOXIC CHEM, CONT & PESTICIDES

SAMPLING BEGAN, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0, FREQ: 1

SAMPLING ENDED, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0

DEPTH: .00 METERS, TIDE:

NARRATIVE: WATER SAMPLE POND ANHERST
MACDONALD RD LFS

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE	UNITS
1: 056 /POLYCHLORIN. BIPHENYLS (PCB)..	0.0017	MG/L

* 87NS010 - NOVA SCOTIA

STATUS AS OF OCT 2, 1987 *

REGISTERED ON: AUG 28, 1987, BY :CHEKLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 267/TECH SERV TOXIC CHEM, CONT & PESTICIDES

SAMPLING BEGAN, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0, FREQ: 1

SAMPLING ENDED, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0

DEPTH: .00 METERS, TIDE:

NARRATIVE: WATER SAMPLE OBLENIS SPRING AMHERST
MACDONALD RD LFS

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE	UNITS
1: 056 /POLYCHLORIN. BIPHENYLS (PCB)..	LO.0001	MG/L

* 87NS011 - NOVA SCOTIA STATUS AS OF OCT 2, 1987 *

REGISTERED ON: AUG 28, 1987; BY :CHEMLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 267/TECH SERV TOXIC CHEM, CONT. & PESTICIDES

SAMPLING BEGAN, DATE: 28/ 8/87 (AUG 28, 1987), TIME: 0, FREQ: 1

SAMPLING ENDED, DATE: 28/ 8/87 (AUG 28, 1987), TIME: 0

DEPTH: .00 METERS, TIDE:

NARRATIVE: WATER SAMPLE #1 AMHERST
MACDONALD RD

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	056 /POLYCHLORIN. BIPHENYLS (PCB)..	0.0049		MG/L

* 87NS012 - NOVA SCOTIA STATUS AS OF OCT 2, 1987 *

REGISTERED ON: AUG 28, 1987; BY :CHEKLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 267/TECH SERV TOXIC CHEK, CONT & PESTICIDES

SAMPLING BEGAN, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0, FREQ: 1

SAMPLING ENDED, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0

DEPTH: .00 METERS, TIDE:

NARRATIVE: WATER SAMPLE #3 AMHERST
MACDONALD RD

----- SAMPLE ANALYSIS -----

.....	PARAMETER	.....	VALUE	.....	UNITS
1:	056 /POLYCHLORIN. BIPHENYLS (PCB)..	0.11			MG/L

* 87NS013 - NOVA SCOTIA STATUS AS OF OCT 2, 1987 *

REGISTERED ON: AUG 28, 1987, BY :CHENLAB

LOCATOR: SPECKS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 267/TECH SERV TOXIC CHEM; CONT & PESTICIDES

SAMPLING BEGAN, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0, FREQ: 1

SAMPLING ENDED, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0

DEPTH: .00 METERS, TIDE:

NARRATIVE: WATER SAMPLE #7 AMHERST
MACDONALD RD

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 056 /POLYCHLORIN. BIPHENYLS (PCB)..	0.0017	MG/L

* 87NS014 - NOVA SCOTIA STATUS AS OF OCT 2, 1987 *

REGISTERED ON: AUG 28, 1987, BY :CHEMLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROJECT CODE: 267/TECH SERV TOXIC CHEM, CONT & PESTICIDES PROV: NS

SAMPLING BEGAN, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0, FREQ: 1
SAMPLING ENDED, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0

DEPTH: .00 METERS, TIDE:
NARRATIVE: WATER SAMPLE #8 AMHERST
MACDONALD RD

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE	UNITS
1: 056 /POLYCHLORIN. BIPHENYLS (PCB)..	0.0026	MG/L

* 87NS015 - NOVA SCOTIA STATUS AS OF OCT 2, 1987 *

REGISTERED ON: AUG 28, 1987, BY :CHEMLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 267/TECH SERV TOXIC CHEM, CONT & PESTICIDES

SAMPLING BEGAN, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0, FREQ: 1

SAMPLING ENDED, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0

DEPTH: .00 METERS, TIDE:

NARRATIVE: WATER SAMPLE #16 AMHERST
MACDONALD RD

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE	UNITS
1: 056 /POLYCHLORIN. BIPHENYLS (PCB)..	LO.0001	MG/L

* 87NS016 - NOVA SCOTIA STATUS AS OF OCT 2, 1987 *

REGISTERED ON: AUG 28, 1987; BY :CHEMLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 267/TECH SERV TOXIC CHEM, CONT & PESTICIDES

SAMPLING BEGAN, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0, FREQ: 1
SAMPLING ENDED, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0

DEPTH: .00 METERS, TIDE:

NARRATIVE: WATER SAMPLE #18 ANHERST
MACDONALD RD

---- SAMPLE ANALYSIS ----

.....	PARAMETER	VALUE	UNITS
1:	056 /POLYCHLORIN. BIPHENYLS (PCB)..	0.0002	MG/L

* 87NS017 - NOVA SCOTIA STATUS AS OF OCT 2, 1987 *

REGISTERED ON: AUG 28, 1987, BY :CHEMLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 267/TECH SERV TOXIC CHEM, CONT & PESTICIDES

SAMPLING BEGAN, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0, FREQ: 1
SAMPLING ENDED, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0

DEPTH: .00 METERS, TIDE:

NARRATIVE: WATER SAMPLE #19
AMHERST MACDONALD RD

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE	UNITS
1: 056 /POLYCHLORIN. BIPHENYLS (PCB)..	0.0061	MG/L

* 87NS018 - NOVA SCOTIA STATUS AS OF OCT 2, 1987 *

REGISTERED ON: AUG 28, 1987, BY :CHEMLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 267/TECH SERV TOXIC CHEM, CONT & PESTICIDES

SAMPLING BEGAN, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0, FREQ: 1

SAMPLING ENDED, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0

DEPTH: .00 METERS, TIDE:

NARRATIVE: WATER SAMPLE #20 AMHERST
MACDONALD RD

----- SAMPLE ANALYSIS -----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	056 /POLYCHLORIN, BIPHENYLS (PCB)..	0.018		MG/L

* 87NS019 - NOVA SCOTIA STATUS AS OF OCT 2, 1987 *

REGISTERED ON: AUG 28, 1987, BY :CHEMLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 267/TECH SERV TOXIC CHEM, CONT & PESTICIDES

SAMPLING BEGAN, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0, FREQ: 1

SAMPLING ENDED, DATE: 26/ 8/87 (AUG 26, 1987), TIME: 0

DEPTH: .00 METERS, TIDE:

NARRATIVE: WATER SAMPLE #21 AMHERST
MACDONALD RD

---- SAMPLE ANALYSIS ----

.....	PARAMETER	.....	VALUE	.....	UNITS
1:	056 /POLYCHLORIN. BIPHENYLS (PCB)..		0.0003		MG/L

* 87NS020 - NOVA SCOTIA

STATUS AS OF OCT 2, 1987 *

REGISTERED ON: AUG 28, 1987; BY :CHEMLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES; N.S.

PROV: NS

PROJECT CODE: 267/TECH SERV TOXIC CHEM; CONT & PESTICIDES

SAMPLING BEGAN; DATE: 26/ 8/87 (AUG 26, 1987); TIME: 0; FREQ: 1

SAMPLING ENDED; DATE: 26/ 8/87 (AUG 26, 1987); TIME: 0

DEPTH: .00 METERS; TIDE:

NARRATIVE: WATER SAMPLE #22 AMHERST
MACDONALD RD

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE	UNITS
1: 056 /POLYCHLORIN. BIPHENYLS (PCB)..	0.0001	MG/L

ATLANTIC HARDCHROME



SIMMONDS DR.

TURNEH DR.

JOSEPH ZATZMAN DR.

JOSEPH ZATZMAN DR.

42
19

55

64
66

10

8

NOTTING CT.

ISNOR DR.

HELDING AVE.

46

MOORE RD.

44

TOBBLE DR.

GIBBOLD DR.

AKERLEY BLVD.

15
23

17

OTO DR.

DE TIDAS DR.

STEELE DR.

* 88RP004 - ROY PARKER STATUS AS OF FEB 12, 1988 *

REGISTERED ON: FEB 8, 1988, BY :ANDRE

LOCATOR: ATHARD03/ATLANTIC HARDCHROME

RINSE TANK NO 2

PROV: NS

NORMAL ANALYSIS: 1,20,29,47,48,54,51,159,46

PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN, DATE: 8/ 2/88 (FEB 8, 1988), TIME: 1330, FREQ: 1

SAMPLING ENDED, DATE: 8/ 2/88 (FEB 8, 1988), TIME: 1330

DEPTH: .00 METERS, TIDE:

NARRATIVE: SAMPLE FROM PARKING LOT (GRAVEL)

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 022S/MAGNESIUM (SEDIMENT).....	12.2	UG/G
2: 044S/ARSENIC (TOTAL,SEDIMENT).....	0.23	UG/G
3: 046S/CADMIUM (TOTAL,SEDIMENT).....	L1.0	UG/G
4: 047S/CHROMIUM (SEDIMENT).....	33.2	UG/G
5: 048S/COPPER (TOTAL,SEDIMENT).....	1.00	UG/G
6: 049S/IRON (SEDIMENT).....	27.4	UG/G
7: 051S/LEAD (TOTAL,SEDIMENT).....	2.46	UG/G
8: 054S/ZINC (TOTAL,SEDIMENT).....	.31	UG/G
9: 159S/NICKEL (SEDIMENT).....	L1.0	UG/G
10: 160S/MANGANESE (SEDIMENT).....	7.20	UG/G
11: 162S/ALUMINUM (SEDIMENT).....	33.0	UG/G

* 88RF003 - ROY PARKER STATUS AS OF FEB 15, 1988 *

REGISTERED ON: FEB 8, 1988, BY :ANDRE

LOCATOR: ATHARD03/ATLANTIC HARDCHROME
RINSE TANK NO 2

PROV: NS

NORMAL ANALYSIS: 1,20,29,47,48,54,51,159,46
PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN, DATE: 8/ 2/88 (FEB 8, 1988), TIME: 1330, FREQ: 1
SAMPLING ENDED, DATE: 8/ 2/88 (FEB 8, 1988), TIME: 1330

DEPTH: .00 METERS, TIDE:
NARRATIVE: OUTSIDE RINSE TANK

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001F/PH.....	2.4	
2: 022 /MAGNESIUM (TOTAL).....	2.10	MG/L
3: 044 /ARSENIC (TOTAL).....	1.86	MG/L
4: 046 /CADMIUM (TOTAL).....	.01	MG/L
5: 047 /CHROMIUM (TOTAL).....	838.	MG/L
6: 048 /COPPER (TOTAL).....	19.5	MG/L
7: 049 /IRON (TOTAL).....	70.2	MG/L
8: 051 /LEAD (TOTAL).....	1.02	MG/L
9: 054 /ZINC (TOTAL).....	3.14	MG/L
10: 159 /NICKEL (TOTAL).....	.42	MG/L
11: 160 /MANGANESE (TOTAL).....	1.32	MG/L
12: 162 /ALUMINUM (TOTAL).....	5.18	MG/L

* 88PH002 - PHIL HENNEBURY STATUS AS OF MAR 23, 1988 *

REGISTERED ON: FEB 16, 1988, BY :BOB G

LOCATOR: ATHARD05/ATLANTIC HARDCHROME

#2 HOLDING TANK-IN PARKING LOT

PROV: NS

PROJECT CODE: 233/COAL & PEAT MINING METALLURGICAL

SAMPLING BEGAN, DATE: 16/ 2/88 (FEB 16, 1988), TIME: 1045, FREQ: 1

SAMPLING ENDED, DATE: 16/ 2/88 (FEB 16, 1988), TIME: 1045

DEPTH: .00 METERS, TIDE:

NARRATIVE: #2 HOLDING TANK IN PARKING LOT.

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	3.0	
2: 001F/PH.....	2.5	
3: 020 /SUSPENDED SOLIDS (SS).....	22.	MG/L
4: 029 /CYANIDE (CN).....	LO.02	MG/L
5: 029H/CYANIDE(OXIDIZABLE)	LO.02	MG/L
6: 046 /CADMIUM (TOTAL).....	LO.01	MG/L
7: 047 /CHROMIUM (TOTAL).....	344.	MG/L
8: 048 /COPPER (TOTAL).....	6.26	MG/L
9: 049 /IRON (TOTAL).....	22.8	MG/L
10: 051 /LEAD (TOTAL).....	LO.02	MG/L
11: 054 /ZINC (TOTAL).....	1.02	MG/L
12: 159 /NICKEL (TOTAL).....	0.14	MG/L
13: 162 /ALUMINUM (TOTAL).....	2.07	MG/L

* 88PH005 - PHIL HENNEBURY

STATUS AS OF MAR 23, 1988 *

REGISTERED ON: FEB 16, 1988, BY :BOB G

LOCATOR: ATHARD00/ATLANTIC HARDCHROME
GENERAL

PROV: NS

PROJECT CODE: 233/COAL & PEAT MINING METALLURGICAL

SAMPLING BEGAN, DATE: 16/ 2/88 (FEB 16, 1988), TIME: 1045, FREQ: 1
SAMPLING ENDED, DATE: 16/ 2/88 (FEB 16, 1988), TIME: 1045

DEPTH: .00 METERS, TIDE:

NARRATIVE: ICE FROM SPILL AREA NEAR MANHOLE
OF #2 HOLDING TANK.

---- SAMPLE ANALYSIS ----

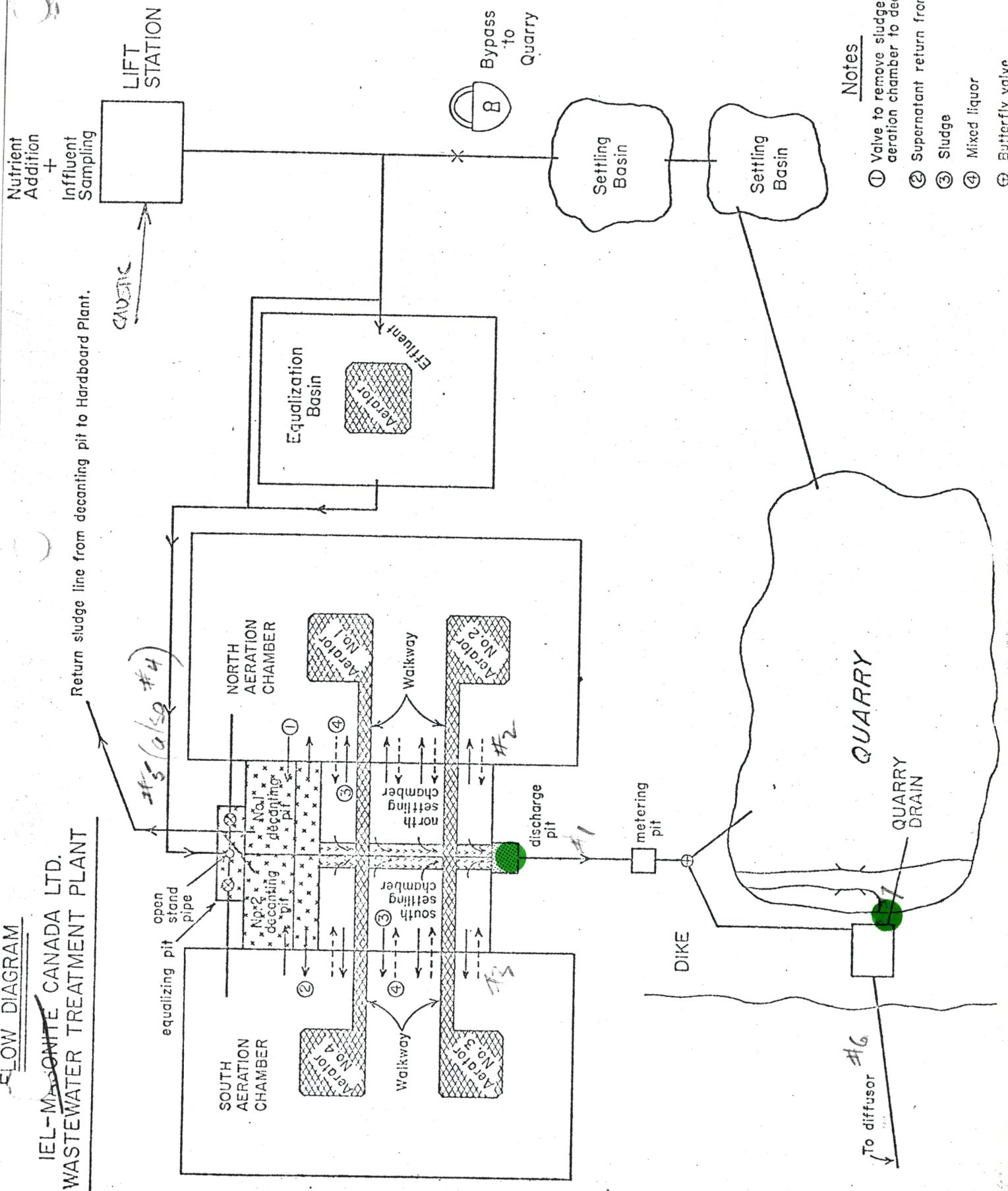
.....PARAMETER .....	..... VALUE	UNITS
1: 046 /CADMIUM (TOTAL).....	LO.01	MG/L
2: 047 /CHROMIUM (TOTAL).....	124.	MG/L
3: 048 /COPPER (TOTAL).....	2.22	MG/L
4: 049 /IRON (TOTAL).....	127.	MG/L
5: 051 /LEAD (TOTAL).....	LO.02	MG/L
6: 054 /ZINC (TOTAL).....	0.37	MG/L
7: 159 /NICKEL (TOTAL).....	0.07	MG/L
8: 162 /ALUMINUM (TOTAL).....	4.11	MG/L

C

CANEXEL HARDBOARD INC.

FLOW DIAGRAM

**IEL-MONTTE CANADA LTD.
WASTEWATER TREATMENT PLANT**



Notes

- ① Valve to remove sludge from aeration chamber to decanting pit.
- ② Supernatant return from decanting p
- ③ Sludge
- ④ Mixed liquor
- ⑤ Butterfly valve

* 87GT001 - GARTH TRIDER STATUS AS OF FEB 16, 1987 *

REGISTERED ON: JAN 19, 1987, BY :IAN M

LOCATOR: MASCANO1/CANEXEL HARDBOARD INC., EAST RIVER
TREATED EFFLUENT

PROV: NS

PROJECT CODE: 237/ENV. CONTROL WOOD PRESERVING P&P

SAMPLING BEGAN, DATE: 14/ 1/87 (JAN 14, 1987), TIME: 1200, FREQ: 1
SAMPLING ENDED, DATE: 14/ 1/87 (JAN 14, 1987), TIME: 1200

DEPTH: .00 METERS, TIDE:

NARRATIVE: SOUTH CELL OPERATING, NORTH CELL CLOSED
FOR CLEANING

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	5.8	
2: 001F/PH.....	5.6	
3: 015 /BIOCHEM. OXYGEN DEMAND (BOD)..	2300.	MG/L
4: 020 /SUSPENDED SOLIDS (SS).....	370.	MG/L
5: 158 /FLOW.....	620000.	IMP G/DAY
6: 421 /PRODUCTION	325.	TONNES/DAY

* 87GT002 - GARTH TRIDER STATUS AS OF FEB 16, 1987 *

REGISTERED ON: JAN 19, 1987, BY :IAN M

LOCATOR: MASCANO7/CANEXEL HARDBOARD INC., EAST RIVER
QUARRY EFFLUENT (SLUDGE POND OVERFLOW PROV: NS
PROJECT CODE: 237/ENV. CONTROL WOOD PRESERVING P&P

SAMPLING BEGAN, DATE: 14/ 1/87 (JAN 14, 1987), TIME: 1200, FREQ: 1
SAMPLING ENDED, DATE: 14/ 1/87 (JAN 14, 1987), TIME: 1200

DEPTH: .00 METERS, TIDE:

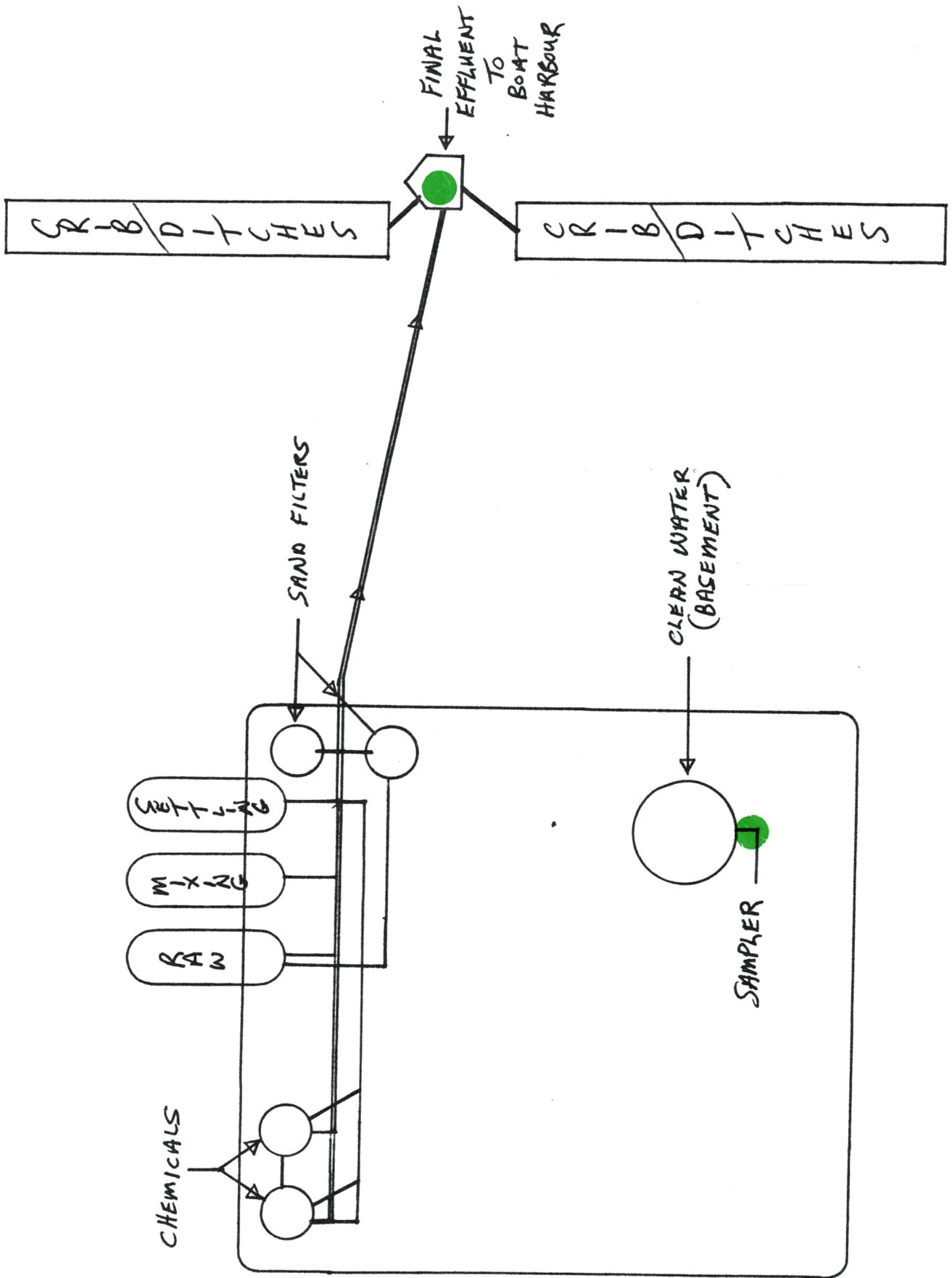
NARRATIVE: AERATOR HAVE NOT BEEN OPERATING SINCE SE
PTEMBER 1986

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....		6.4	
2:	001F/PH.....		5.8	
3:	015 /BIOCHEM. OXYGEN DEMAND (BOD)..		14.	MG/L
4:	020 /SUSPENDED SOLIDS (SS).....		95.	MG/L
5:	158 /FLOW.....		159700.	IMP G/DAY
6:	421 /PRODUCTION		325.	TONNES/DAY

CANSO CHEMICALS

CANSO CHEMICALS



(N.T.S)

* 87JK010 - J.K. (SUE) DAY STATUS AS OF MAY 25, 1987 *

REGISTERED ON: MAR 25, 1987, BY : IAN M

LOCATOR: CANSOC01/CANSO CHEMICALS
TREATED EFFLUENT

PROV: NS

NORMAL ANALYSIS: 50,166,1

PROJECT CODE: 234/ENV. CONTROL CHEMICAL INDUSTRIES

SAMPLING BEGAN, DATE: 23/ 3/87 (MAR 23, 1987), TIME: 1110, FREQ: 24

SAMPLING ENDED, DATE: 24/ 3/87 (MAR 24, 1987), TIME: 1105

DEPTH: .00 METERS, TIDE:

NARRATIVE: START 125559 CU.M.(TOTALISER)
FINISH 125751 CU.M.

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 050 /MERCURY (TOTAL).....	0.0267	MG/L
2: 649 /FLOW	192.	M3/DAY

* 87JK011 - J.K. (SUE) DAY STATUS AS OF MAY 25, 1987 *

REGISTERED ON: MAR 25, 1987, BY :IAN M

LOCATOR: CANSOC02/CANSO CHEMICALS
CLEAN WATER

PROV: NS

NORMAL ANALYSIS: 50,166,1

PROJECT CODE: 234/ENV. CONTROL CHEMICAL INDUSTRIES

SAMPLING BEGAN, DATE: 23/ 3/87 (MAR 23, 1987), TIME: 1125, FREQ: 24

SAMPLING ENDED, DATE: 24/ 3/87 (MAR 24, 1987), TIME: 1120

DEPTH: .00 METERS, TIDE:

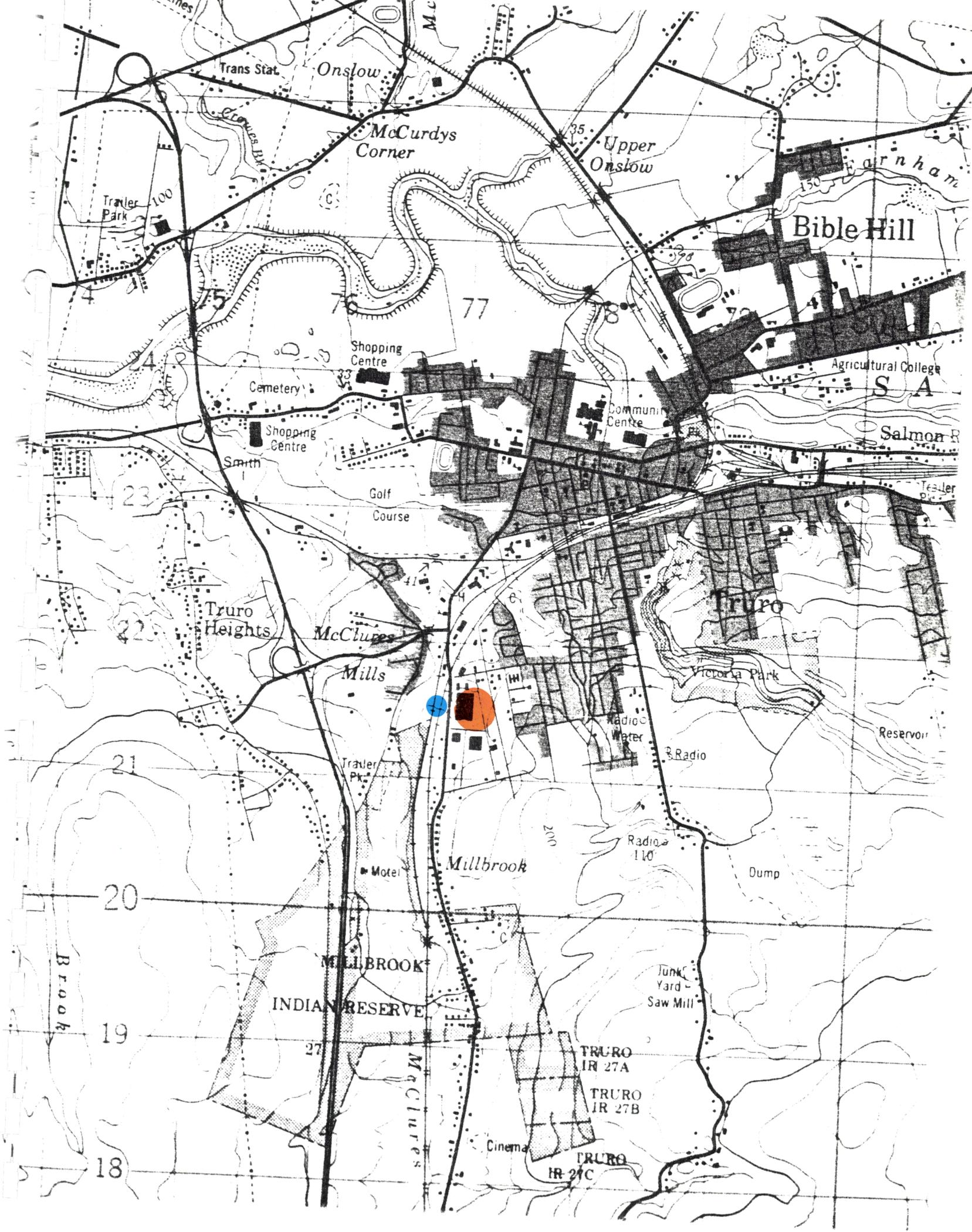
NARRATIVE: START 80769 CU.M.

FINISH 81067 CU.M.

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 050 /MERCURY (TOTAL).....	0.01007	MG/L
2: 649 /FLOW	298.	M3/DAY

CROSSLEY KARASTAN CARPET MILLS LTD.



CROSSLEY KARASTAN
(MAIN PLANT)

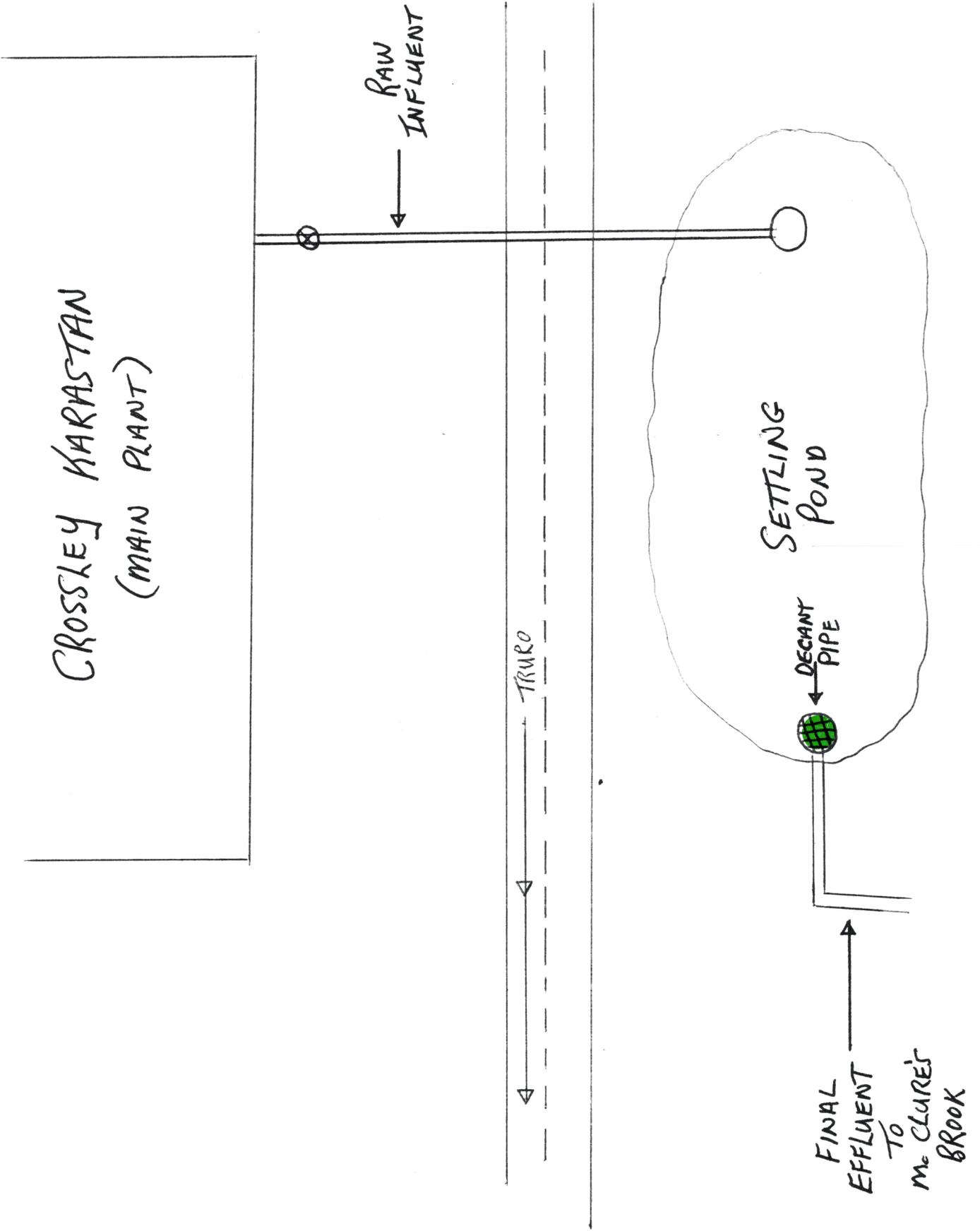
RAW
INFLUENT

TRURO

SETTLING
POND

DECANT
PIPE

FINAL
EFFLUENT
TO
Mc CLURES
BROOK



* 87N8995 - NOVA SCOTIA

STATUS AS OF JAN 11, 1988 *

REGISTERED ON: JUL 29, 1987, BY :NS

LOCATOR: CROSLY01/CROSSLEY KARASTAN CARPET MILLS LTD. TRURO
FINAL EFFLUENT

PROV: NS

NORMAL ANALYSIS: 1, 16, 20, 28, 54, 165, 51, 48

PROJECT CODE: 265/LAB SUPPORT - PREV & CONTR WATER POLL

SAMPLING BEGAN, DATE: 28/ 7/87 (JUL 28, 1987), TIME: 1015, FREQ: 5

SAMPLING ENDED, DATE: 28/ 7/87 (JUL 28, 1987), TIME: 1415

DEPTH: .00 METERS, TIDE:

NARRATIVE: SEND COPY TO PENNY

----- SAMPLE ANALYSIS -----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001F/PH.....		6.8	
2:	005 /HARDNESS.....		35.	MG/L
3:	015 /BIOCHEM. OXYGEN DEMAND (BOD)..		120.	MG/L
4:	016 /CHEMICAL OXYGEN DEMAND (COD)..		400.	MG/L
5:	018 /SOLIDS, TOTAL (TS).....		360.	MG/L
6:	020 /SUSPENDED SOLIDS (SS).....	LS.		MG/L
7:	022 /MAGNESIUM (TOTAL).....		1.59	MG/L
8:	036 /CALCIUM (TOTAL).....		11.5	MG/L
9:	048 /COPPER (TOTAL).....		0.02	MG/L
10:	049 /IRON (TOTAL).....		0.32	MG/L
11:	051 /LEAD (TOTAL).....		0.04	MG/L
12:	054 /ZINC (TOTAL).....		0.03	MG/L
13:	158 /FLOW.....		"NO RESULTS"	MG/L
14:	421 /PRODUCTION		"NO RESULTS"	MG/L
15:	500 /BIASSAY		"DONE"	MG/L

Garth L. Trider, Head
Food Processing, Steel & Textile Industries
Air & Water Branch

J. David A. Vaughan
Aquatic Toxicology Section
Laboratory Division
Air & Water Branch

SECURITY - CLASSIFICATION - DE SÉCURITÉ

OUR FILE / NOTRE RÉFÉRENCE

4834-1

YOUR FILE / VOTRE RÉFÉRENCE

DATE

21 September 1987

SUBJECT
OBJET

BIOASSAY RESULTS -
CROSSLEY-KARASTAN

On July 28, 1987, Penny McLeod of NSDOE collected a 4-hour composite sample of final effluent from the Crossley-Karastan Carpet mill in Truro, Nova Scotia.

On July 30, 1987, a 96-hour acute lethal static bioassay was begun on this sample, using rainbow trout fingerling of mean weight 2.9 ± 1.3 g as the test organism.

The effluent was not acutely lethal to the test fish.

A copy of the Bioassay Report is attached which provides additional test details.

J. David A. Vaughan
J. David A. Vaughan

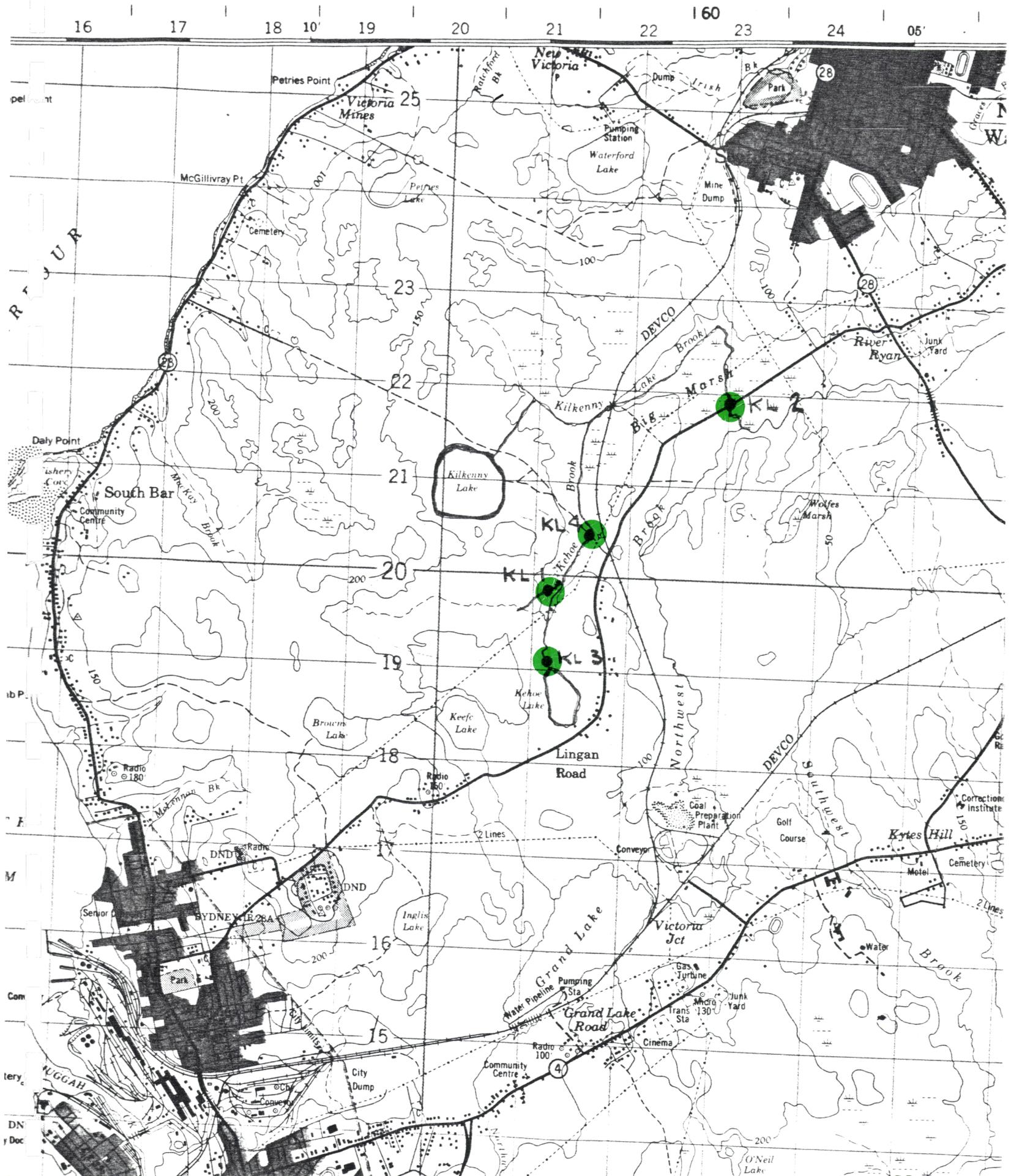
JDAV/1d1

Attachment (1)

cc: H. Samant
K. Doe
J. Turner, NSDOE
R. Parker
P. McLeod

D

DEVCO KILKENNY LAKE

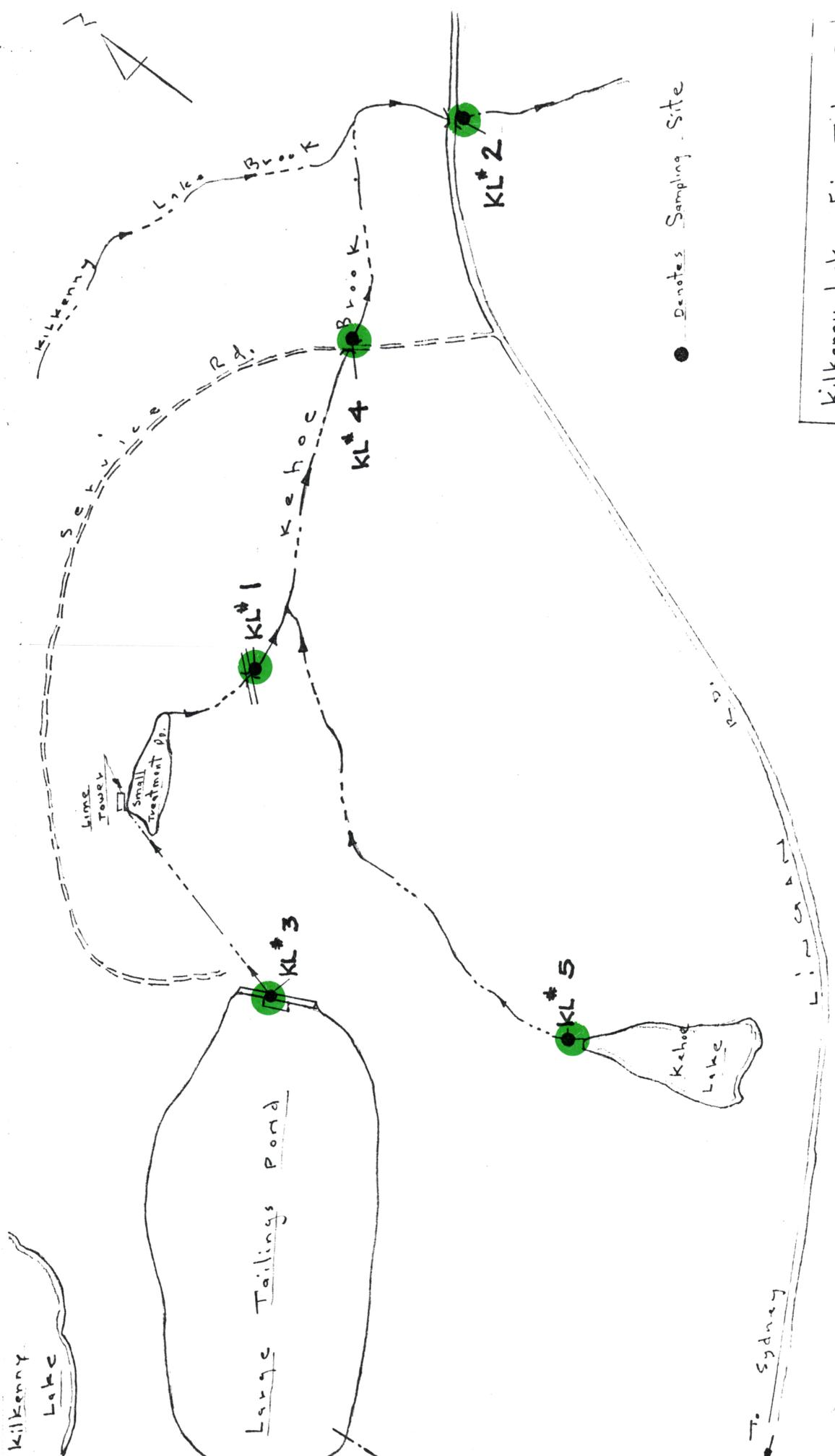


KL 2

KL 4

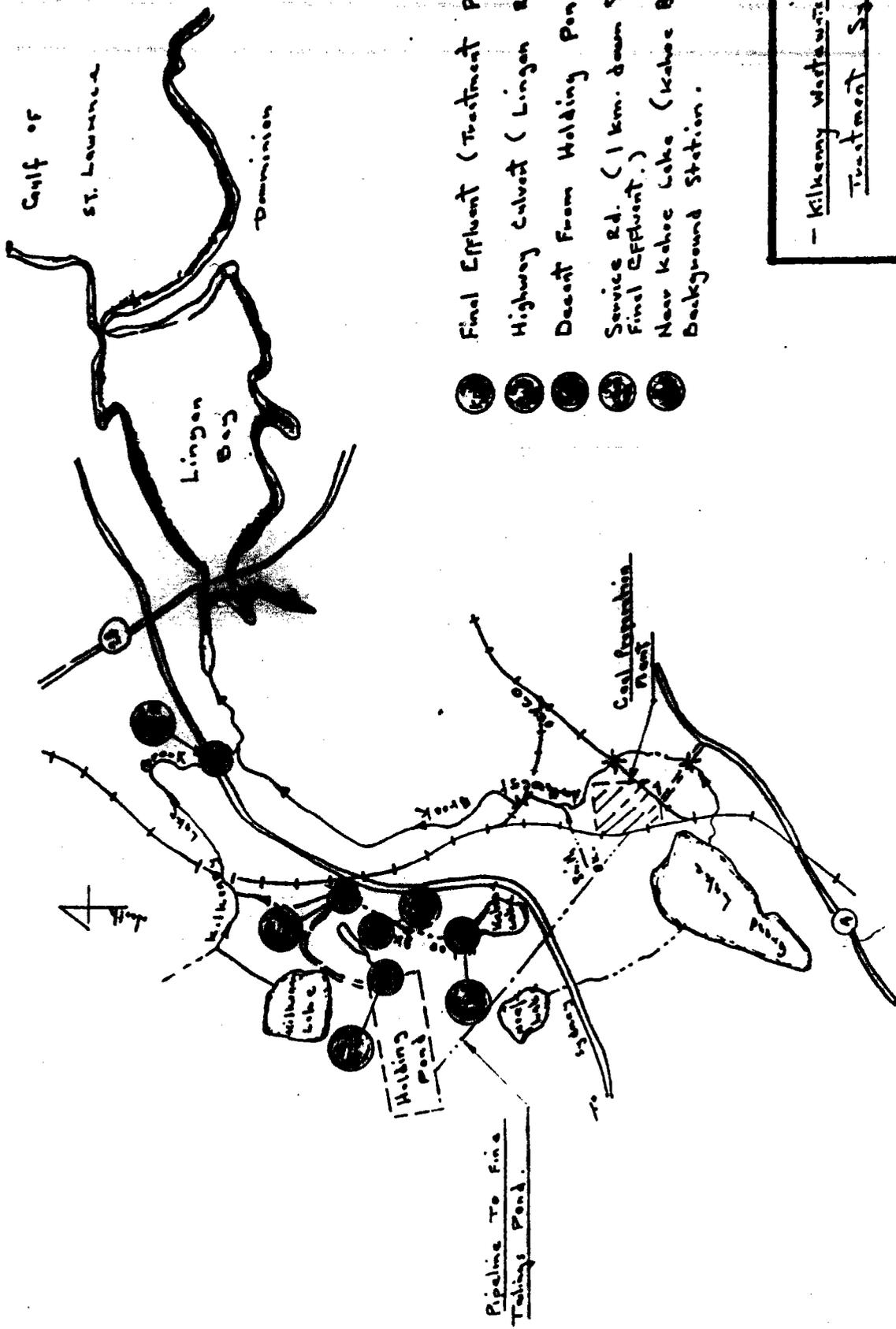
KL 1

KL 3



● Denotes Sampling Site

Kilkeny Lake - Fine Tailing Pond
Sampling Stations



- Final Effluent (Treatment Pond)
- Highway Culvert (Lingon Rd.)
- Decent From Holding Pond.
- Service Rd. (1 km. down Stream From Final Effluent.)
- Near Keho Lake (Keho Brook) Background Station.

— Kilkenny Wastewater Treatment System —

* 37RP016 - ROY PARKER STATUS AS OF JUL 21, 1987 *

REGISTERED ON: MAY 14, 1987, BY :MAUREEN

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 265/LAB SUPPORT - PREV & CONTR WATER POLL

SAMPLING BEGAN, DATE: 6/ 5/87 (MAY 6, 1987), TIME: 1455, FREQ: 1
SAMPLING ENDED, DATE: 6/ 5/87 (MAY 6, 1987), TIME: 1455

DEPTH: .00 METERS, TIDE:

NARRATIVE: KILKENNY LAKE SAMPLE 1
OUTLET OF KILKENNY LAKE

----- SAMPLE ANALYSIS -----

.....	PARAMETER	VALUE	UNITS
1:	001 /PH.....	6.1	
2:	022 /MAGNESIUM (TOTAL).....	1.05	MG/L
3:	030 /SULPHATE (SO4).....	5.9	MG/L
4:	036 /CALCIUM (TOTAL).....	2.04	MG/L
5:	044 /ARSENIC (TOTAL).....	LO.05	MG/L
6:	046 /CADMIUM (TOTAL).....	LO.01	MG/L
7:	047 /CHROMIUM (TOTAL).....	LO.01	MG/L
8:	048 /COPPER (TOTAL).....	LO.01	MG/L
9:	049 /IRON (TOTAL).....	0.06	MG/L
10:	051 /LEAD (TOTAL).....	LO.02	MG/L
11:	054 /ZINC (TOTAL).....	LO.01	MG/L
12:	159 /NICKEL (TOTAL).....	LO.01	MG/L
13:	160 /MANGANESE (TOTAL).....	0.11	MG/L
14:	161 /CHLORIDE.....	B.1	PPM
15:	162 /ALUMINUM (TOTAL).....	0.04	MG/L
16:	237 /COBALT (CO)	LO.01	MG/L

* 87RP017 - ROY PARKER

STATUS AS OF JUL 21, 1987 *

REGISTERED ON: MAY 14, 1987; BY :NAUREEN

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 265/LAB SUPPORT - PREV & CONTR WATER POLL

SAMPLING BEGAN, DATE: 6/ 5/87 (MAY 6, 1987), TIME: 1520, FREQ: 1

SAMPLING ENDED, DATE: 6/ 5/87 (MAY 6, 1987), TIME: 1520

DEPTH: .00 METERS, TIDE:

NARRATIVE: KILKENNY LAKE -SAMPLE 2

OPPOSITE SHORE FROM OUTLET

----- SAMPLE ANALYSIS -----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	6.1		
2:	022 /MAGNESIUM (TOTAL).....	1.04		MG/L
3:	030 /SULPHATE (SO4).....	6.2		MG/L
4:	036 /CALCIUM (TOTAL).....	2.02		MG/L
5:	044 /ARSENIC (TOTAL).....	LO.05		MG/L
6:	046 /CADMIUM (TOTAL).....	LO.01		MG/L
7:	047 /CHROMIUM (TOTAL).....	LO.01		MG/L
8:	048 /COFFER (TOTAL).....	LO.01		MG/L
9:	049 /IRON (TOTAL).....	0.08		MG/L
10:	051 /LEAD (TOTAL).....	LO.02		MG/L
11:	054 /ZINC (TOTAL).....	LO.01		MG/L
12:	159 /NICKEL (TOTAL).....	LO.01		MG/L
13:	160 /MANGANESE (TOTAL).....	0.11		MG/L
14:	161 /CHLORIDE.....	8.1		PPM
15:	162 /ALUMINUM (TOTAL).....	0.04		MG/L
16:	237 /COBALT (CO)	LO.01		MG/L

* 87RP018 - ROY PARKER STATUS AS OF JUL 21, 1987 *

REGISTERED ON: MAY 14, 1987; BY :MAUREEN

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 265/LAB SUPPORT - PREV & CONTR WATER POLL

SAMPLING BEGAN, DATE: 6/ 5/87 (MAY 6, 1987), TIME: 1545, FREQ: 1

SAMPLING ENDED, DATE: 6/ 5/87 (MAY 6, 1987), TIME: 1545

DEPTH: .00 METERS, TIDE:

NARRATIVE: KILKENNY LAKE-SAMPLE 3

SMALL OUTLET OF TREATMENT POND

---- SAMPLE ANALYSIS -----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	6.6		
2:	022 /MAGNESIUM (TOTAL).....	12.1		MG/L
3:	030 /SULPHATE (SO4).....	155.		MG/L
4:	036 /CALCIUM (TOTAL).....	40.6		MG/L
5:	044 /ARSENIC (TOTAL).....	LO.05		MG/L
6:	046 /CADMIUM (TOTAL).....	LO.01		MG/L
7:	047 /CHROMIUM (TOTAL).....	LO.01		MG/L
8:	048 /COPPER (TOTAL).....	LO.01		MG/L
9:	049 /IRON (TOTAL).....	0.21		MG/L
10:	051 /LEAD (TOTAL).....	LO.02		MG/L
11:	054 /ZINC (TOTAL).....	LO.01		MG/L
12:	159 /NICKEL (TOTAL).....	0.01		MG/L
13:	160 /MANGANESE (TOTAL).....	2.59		MG/L
14:	161 /CHLORIDE.....	150.		PPM
15:	162 /ALUMINUM (TOTAL).....	LO.025		MG/L
16:	237 /COBALT (CO)	LO.01		MG/L

* 87RPO19 - ROY PARKER STATUS AS OF JUL 21, 1987 *

REGISTERED ON: MAY 14, 1987, BY :MAUREEN

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROJ: NS

PROJECT CODE: 265/LAB SUPPORT - PREV & CONTR WATER POLL

SAMPLING BEGAN, DATE: 6/ 5/87 (MAY 6, 1987); TIME: 1600; FREQ: 1

SAMPLING ENDED, DATE: 6/ 5/87 (MAY 6, 1987); TIME: 1600

DEPTH: .00 METERS, TIDE:

NARRATIVE: KILKENNY LAKE-SAMPLE 4-10 FT.ABOVE JUNCT
ION OF KEHOE BK AND TREAT.POND

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE .....	.....	UNITS
1:	001 /PH.....	6.6			
2:	022 /MAGNESIUM (TOTAL).....	1.45			MG/L
3:	030 /SULPHATE (SO4).....	5.9			MG/L
4:	036 /CALCIUM (TOTAL).....	2.45			MG/L
5:	044 /ARSENIC (TOTAL).....	L0.05			MG/L
6:	046 /CADMIUM (TOTAL).....	L0.01			MG/L
7:	047 /CHROMIUM (TOTAL).....	L0.01			MG/L
8:	048 /COPPER (TOTAL).....	L0.01			MG/L
9:	049 /IRON (TOTAL).....	0.20			MG/L
10:	051 /LEAD (TOTAL).....	L0.02			MG/L
11:	054 /ZINC (TOTAL).....	L0.01			MG/L
12:	159 /NICKEL (TOTAL).....	L0.01			MG/L
13:	160 /MANGANESE (TOTAL).....	0.11			MG/L
14:	161 /CHLORIDE.....	12.			PPM
15:	162 /ALUMINUM (TOTAL).....	L0.025			MG/L
16:	237 /COBALT (CO)	L0.01			MG/L

* 870A069 - OUTSIDE AGENCIES STATUS AS OF JUL 28, 1987 *

REGISTERED ON: JUL 27, 1987, BY : MAUREEN

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 265/LAB SUPPORT - PREV & CONTR WATER POLL

SAMPLING BEGAN, DATE: 22/ 7/87 (JUL 22, 1987), TIME: 0, FREQ: 1

SAMPLING ENDED, DATE: 22/ 7/87 (JUL 22, 1987), TIME: 0

DEPTH: .00 METERS, TIDE:

NARRATIVE: GLACE BAY-FISH KILL -#20 DAM SITE

RESULTS TO D.C.RILEY

---- SAMPLE ANALYSIS ----

.....	PARAMETER	VALUE	UNITS
1:	022 /MAGNESIUM (TOTAL).....	3.69	MG/L
2:	036 /CALCIUM (TOTAL).....	13.5	MG/L
3:	044 /ARSENIC (TOTAL).....	LO.050	MG/L
4:	046 /CADMIUM (TOTAL).....	LO.01	MG/L
5:	047 /CHROMIUM (TOTAL).....	LO.01	MG/L
6:	048 /COPPER (TOTAL).....	LO.01	MG/L
7:	049 /IRON (TOTAL).....	0.06	MG/L
8:	051 /LEAD (TOTAL).....	LO.02	MG/L
9:	054 /ZINC (TOTAL).....	LO.01	MG/L
10:	159 /NICKEL (TOTAL).....	LO.01	MG/L
11:	160 /MANGANESE (TOTAL).....	0.18	MG/L
12:	162 /ALUMINUM (TOTAL).....	LO.025	MG/L
13:	203 /BARIUM (BA)	0.02	MG/L
14:	237 /COBALT (CO)	LO.01	MG/L

DEVCO
VICTORIA JUNCTION

 * B7PH024 - PHIL HENNEBURY STATUS AS OF DEC 4, 1987 *

REGISTERED ON: JUN 18, 1987, BY :PHIL H

LOCATOR: VCTJCN16/DEVCO VICTORIA JUNC.COAL PREP., SYDNEY
 FIN EFF, FIN TAIL KL#1, MG213199(KAP11K/1) PROV: NS
 PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN, DATE: 16/ 6/87 (JUN 16, 1987); TIME: 1400, FREQ: 1
 SAMPLING ENDED, DATE: 16/ 6/87 (JUN 16, 1987); TIME: 1400

DEPTH: .00 METERS; TIDE:

NARRATIVE: STATION KL #1 EFFLUENT FROM SMALL
 TREATMENT POND ,FINAL EFFLUENT

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	7.0	
2: 001F/PH.....	7.1	
3: 008 /TURBIDITY.....	2.1	JTU
4: 009 /ALKALINITY.....	22.	MG/L
5: 018 /SOLIDS, TOTAL (TS).....	770.	MG/L
6: 020 /SUSPENDED SOLIDS (SS).....	L5.	MG/L
7: 022 /MAGNESIUM (TOTAL).....	14.1	MG/L
8: 030 /SULPHATE (SO4).....	180.	MG/L
9: 036 /CALCIUM (TOTAL).....	64.3	MG/L
10: 038 /STRONTIUM.....	1.40	MG/L
11: 043 /SILVER (TOTAL).....	L.02	MG/L
12: 044 /ARSENIC (TOTAL).....	L.05	MG/L
13: 046 /CADMIUM (TOTAL).....	L.01	MG/L
14: 047 /CHROMIUM (TOTAL).....	L.01	MG/L
15: 048 /COPPER (TOTAL).....	L.01	MG/L
16: 049 /IRON (TOTAL).....	.40	MG/L
17: 051 /LEAD (TOTAL).....	L.02	MG/L
18: 052 /ANTIMONY (TOTAL).....	L0.20	MG/L
19: 054 /ZINC (TOTAL).....	L.01	MG/L
20: 117 /FLOW.....	3.6	CU.FT./SEC
21: 128 /ACIDITY, TOTAL.....	L2.0	MG/L
22: 131 /TOTAL DISSOLVED SOLIDS (TDS).....	770.	MG/L
23: 159 /NICKEL (TOTAL).....	L.01	MG/L
24: 160 /MANGANESE (TOTAL).....	2.10	MG/L
25: 161 /CHLORIDE.....	210.	PPM
26: 162 /ALUMINUM (TOTAL).....	L.025	MG/L
27: 202 /VANADIUM	"NO RESULT"	MG/L
28: 203 /BARIUM (BA) .....	.05	MG/L

REGISTERED ON: JUN 18, 1987, BY :PHIL H

LOCATOR: VCTJCN15/DEVCO VICTORIA JUNC.COAL PREP.,SYDNEY
 KEHOE BR-CONTROL KL#5 HQ212191(NAP11K/1) PROV: NS
 PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN, DATE: 16/ 6/87 (JUN 16, 1987), TIME: 1500, FREQ: 1
 SAMPLING ENDED, DATE: 16/ 6/87 (JUN 16, 1987), TIME: 1500

DEPTH: .00 METERS, TIDE:
 NARRATIVE: KEHOE BROOK NEAR KEHOE LAKE
 STATION KL# 5

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	6.3	
2: 001F/PH.....	6.0	
3: 008 /TURBIDITY.....	0.78	JTU
4: 009 /ALKALINITY.....	3.	MG/L
5: 018 /SOLIDS, TOTAL (TS).....	65.	MG/L
6: 020 /SUSPENDED SOLIDS (SS).....	L5.	MG/L
7: 022 /MAGNESIUM (TOTAL).....	1.55	MG/L
8: 030 /SULPHATE (SO4).....	6.5	MG/L
9: 036 /CALCIUM (TOTAL).....	2.76	MG/L
10: 038 /STRONTIUM.....	.01	MG/L
11: 043 /SILVER (TOTAL).....	L.02	MG/L
12: 044 /ARSENIC (TOTAL).....	L.05	MG/L
13: 046 /CADMIUM (TOTAL).....	L.01	MG/L
14: 047 /CHROMIUM (TOTAL).....	L.01	MG/L
15: 048 /COPPER (TOTAL).....	L.01	MG/L
16: 049 /IRON (TOTAL).....	.41	MG/L
17: 051 /LEAD (TOTAL).....	L.02	MG/L
18: 052 /ANTIMONY (TOTAL).....	L0.20	MG/L
19: 054 /ZINC (TOTAL).....	L.01	MG/L
20: 117 /FLOW.....	0.85	CU.FT./SEC
21: 128 /ACIDITY, TOTAL.....	3.0	MG/L
22: 131 /TOTAL DISSOLVED SOLIDS (TDS)..	65.	MG/L
23: 159 /NICKEL (TOTAL).....	L.01	MG/L
24: 160 /MANGANESE (TOTAL).....	.13	MG/L
25: 161 /CHLORIDE.....	14.	PPM
26: 162 /ALUMINUM (TOTAL).....	L.025	MG/L
27: 202 /VANADIUM	"NO RESULT"	MG/L
28: 203 /BARIUM (BA) .....	.01	MG/L

* B7PH026 - PHIL HENNEBURY

STATUS AS OF DEC 4, 1987 *

REGISTERED ON: JUN 18, 1987; BY :PHIL H

LOCATOR: VCTJCN18/DEVCO VICTORIA JUNC.COAL PREP.,SYDNEY

KILKENNY BR-KL#2MG219230(MAP11K/1)

PROV: NS

PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN: DATE: 16/ 6/87 (JUN 16, 1987), TIME: 1700, FREQ: 1

SAMPLING ENDED: DATE: 16/ 6/87 (JUN 16, 1987), TIME: 1700

DEPTH: .00 METERS; TIDE:

NARRATIVE: STATION KL#2

AT LINGAN RD. BRIDGE

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	6.3	
2: 001F/PH.....	5.5	
3: 008 /TURBIDITY.....	2.0	JTU
4: 009 /ALKALINITY.....	5.	MG/L
5: 018 /SOLIDS, TOTAL (TS).....	310.	MG/L
6: 020 /SUSPENDED SOLIDS (SS).....	L5.	MG/L
7: 022 /MAGNESIUM (TOTAL).....	6.44	MG/L
8: 030 /SULPHATE (SO4).....	75.	MG/L
9: 036 /CALCIUM (TOTAL).....	27.2	MG/L
10: 038 /STRONTIUM.....	.45	MG/L
11: 043 /SILVER (TOTAL).....	L.02	MG/L
12: 044 /ARSENIC (TOTAL).....	L.05	MG/L
13: 046 /CADMIUM (TOTAL).....	L.01	MG/L
14: 047 /CHROMIUM (TOTAL).....	L.01	MG/L
15: 048 /COPPER (TOTAL).....	L.01	MG/L
16: 049 /IRON (TOTAL).....	.54	MG/L
17: 051 /LEAD (TOTAL).....	L.02	MG/L
18: 052 /ANTIMONY (TOTAL).....	L0.20	MG/L
19: 054 /ZINC (TOTAL).....	.01	MG/L
20: 117 /FLOW.....	8.10	CU.FT./SEC
21: 128 /ACIDITY, TOTAL.....	4.0	MG/L
22: 131 /TOTAL DISSOLVED SOLIDS (TDS)..	310.	MG/L
23: 159 /NICKEL (TOTAL).....	.02	MG/L
24: 160 /MANGANESE (TOTAL).....	.83	MG/L
25: 161 /CHLORIDE.....	70.	PPM
26: 162 /ALUMINUM (TOTAL).....	.37	MG/L
27: 202 /VANADIUM	"NO RESULT"	MG/L
28: 203 /BARIUM (BA) .....	.02	MG/L

 * 87PH027 - PHIL HENNEBURY STATUS AS OF DEC 4, 1987 *

REGISTERED ON: JUN 18, 1987, BY :PHIL H

LOCATOR: VCTJCN17/DEVCO VICTORIA JUNC.COAL PREP.,SYDNEY
 KEHOE BR-SERVICE RD KL#4MG216204(MAP11K/1 PROV: NS
 PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN, DATE: 16/ 6/87 (JUN 16, 1987), TIME: 1530, FREQ: 1
 SAMPLING ENDED, DATE: 16/ 6/87 (JUN 16, 1987), TIME: 1530

DEPTH: .00 METERS, TIDE:
 NARRATIVE: KEHOE BROOK AT SERVICE RD.
 KL #4

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	6.8	
2: 001F/PH.....	6.3	
3: 008 /TURBIDITY.....	1.3	JTU
4: 009 /ALKALINITY.....	16.	MG/L
5: 018 /SOLIDS, TOTAL (TS).....	620.	MG/L
6: 020 /SUSPENDED SOLIDS (SS).....	L5.	MG/L
7: 022 /MAGNESIUM (TOTAL).....	11.8	MG/L
8: 030 /SULPHATE (SO4).....	130.	MG/L
9: 036 /CALCIUM (TOTAL).....	52.2	MG/L
10: 038 /STRONTIUM.....	1.07	MG/L
11: 043 /SILVER (TOTAL).....	L.02	MG/L
12: 044 /ARSENIC (TOTAL).....	L.05	MG/L
13: 046 /CADMIUM (TOTAL).....	L.01	MG/L
14: 047 /CHROMIUM (TOTAL).....	L.01	MG/L
15: 048 /COPPER (TOTAL).....	L.01	MG/L
16: 049 /IRON (TOTAL).....	.44	MG/L
17: 051 /LEAD (TOTAL).....	L.02	MG/L
18: 052 /ANTIMONY (TOTAL).....	L0.20	MG/L
19: 054 /ZINC (TOTAL).....	L.01	MG/L
20: 117 /FLOW.....	4.2	CU.FT./SEC
21: 128 /ACIDITY, TOTAL.....	3.0	MG/L
22: 131 /TOTAL DISSOLVED SOLIDS (TDS).....	620.	MG/L
23: 159 /NICKEL (TOTAL).....	.01	MG/L
24: 160 /MANGANESE (TOTAL).....	1.30	MG/L
25: 161 /CHLORIDE.....	150.	PPM
26: 162 /ALUMINUM (TOTAL).....	L.025	MG/L
27: 202 /VANADIUM	"NO RESULT"	MG/L
28: 203 /BARIUM (BA) .....	.04	MG/L

REGISTERED ON: JUN 18, 1987, BY :PHIL H

LOCATOR: VCTJCN19/DEVCO VICTORIA JUNC. COAL PREP., SYDNEY
 LG TAIL PD DECANT KL#3, MG208197 MAP11K/1 PROV: NS
 PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN, DATE: 16/ 6/87 (JUN 16, 1987), TIME: 1400, FREQ: 1
 SAMPLING ENDED, DATE: 16/ 6/87 (JUN 16, 1987), TIME: 1400

DEPTH: .00 METERS, TIDE:
 NARRATIVE: DECANT FROM LARGE TAILINGS POND
 STATION KL #3

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	7.0	
2: 001F/PH.....	7.0	
3: 008 /TURBIDITY.....	2.3	JTU
4: 009 /ALKALINITY.....	24.	MG/L
5: 018 /SOLIDS, TOTAL (TS).....	870.	MG/L
6: 020 /SUSPENDED SOLIDS (SS).....	13.	MG/L
7: 022 /MAGNESIUM (TOTAL).....	16.0	MG/L
8: 030 /SULPHATE (SO4).....	165.	MG/L
9: 036 /CALCIUM (TOTAL).....	70.5	MG/L
10: 038 /STRONTIUM.....	1.60	MG/L
11: 043 /SILVER (TOTAL).....	L.02	MG/L
12: 044 /ARSENIC (TOTAL).....	.08	MG/L
13: 046 /CADMIUM (TOTAL).....	L.01	MG/L
14: 047 /CHROMIUM (TOTAL).....	L.01	MG/L
15: 048 /COPPER (TOTAL).....	L.01	MG/L
16: 049 /IRON (TOTAL).....	.23	MG/L
17: 051 /LEAD (TOTAL).....	L.02	MG/L
18: 052 /ANTIMONY (TOTAL).....	L0.20	MG/L
19: 054 /ZINC (TOTAL).....	L.01	MG/L
20: 128 /ACIDITY, TOTAL.....	2.0	MG/L
21: 131 /TOTAL DISSOLVED SOLIDS (TDS)..	860.	MG/L
22: 159 /NICKEL (TOTAL).....	L.01	MG/L
23: 160 /MANGANESE (TOTAL).....	2.59	MG/L
24: 161 /CHLORIDE.....	200.	PPM
25: 162 /ALUMINUM (TOTAL).....	L.025	MG/L
26: 202 /VANADIUM	"NO RESULT"	MG/L
27: 203 /BARIUM (BA) .....	.06	MG/L

REGISTERED ON: JUN 18, 1987, BY :PHIL H

LOCATOR: VCTJCN00/DEVCO VICTORIA JUNC. COAL PREP.,SYDNEY
 GENERAL

PROV: NS

PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN: DATE: 17/ 6/87 (JUN 17, 1987), TIME: 1000, FREQ: 1
 SAMPLING ENDED: DATE: 17/ 6/87 (JUN 17, 1987), TIME: 1000

DEPTH: .00 METERS; TIDE:

NARRATIVE: SMITH AT R/R CULVERT NEAR WASTE ROCK PILE

---- SAMPLE ANALYSIS ----

PARAMETER	VALUE	UNITS
1: 001 /PH.....	4.5	
2: 001F/PH.....	4.3	
3: 008 /TURBIDITY.....	0.53	JTU
4: 009 /ALKALINITY.....	L2.	MG/L
5: 018 /SOLIDS, TOTAL (TS).....	190.	MG/L
6: 020 /SUSPENDED SOLIDS (SS).....	L5.	MG/L
7: 022 /MAGNESIUM (TOTAL).....	5.10	MG/L
8: 030 /SULPHATE (SO4).....	62.	MG/L
9: 036 /CALCIUM (TOTAL).....	21.8	MG/L
10: 038 /STRONTIUM.....	.10	MG/L
11: 043 /SILVER (TOTAL).....	L.02	MG/L
12: 044 /ARSENIC (TOTAL).....	.06	MG/L
13: 046 /CADMIUM (TOTAL).....	L.01	MG/L
14: 047 /CHROMIUM (TOTAL).....	L.01	MG/L
15: 048 /COPPER (TOTAL).....	L.01	MG/L
16: 049 /IRON (TOTAL).....	.75	MG/L
17: 051 /LEAD (TOTAL).....	L.02	MG/L
18: 052 /ANTIMONY (TOTAL).....	LO.20	MG/L
19: 054 /ZINC (TOTAL).....	.03	MG/L
20: 128 /ACIDITY, TOTAL.....	8.0	MG/L
21: 131 /TOTAL DISSOLVED SOLIDS (TDS)..	190.	MG/L
22: 159 /NICKEL (TOTAL).....	L.01	MG/L
23: 160 /MANGANESE (TOTAL).....	.82	MG/L
24: 161 /CHLORIDE.....	35.	PPM
25: 162 /ALUMINUM (TOTAL).....	.40	MG/L
26: 202 /VANADIUM	"NO RESULT"	MG/L
27: 203 /BARIUM (BA) .....	.06	MG/L

* B7PH031 - PHIL HENNEBURY STATUS AS OF DEC 4, 1987 *

REGISTERED ON: JUN 18, 1987; BY :PHIL H

LOCATOR: VCTJCN00/DEVCO VICTORIA JUNC. COAL PREP., SYDNEY
GENERAL

PROV: NS

PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN, DATE: 17/ 6/87 (JUN 17, 1987), TIME: 1100, FREQ: 1
SAMPLING ENDED, DATE: 17/ 6/87 (JUN 17, 1987), TIME: 1100

DEPTH: .00 METERS, TIDE:

NARRATIVE: UP-STREAM SITE NORTHWEST BR.
AT SERVICE RD.

----- SAMPLE ANALYSIS -----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	6.2		
2:	001F/PH.....	5.7		
3:	008 /TURBIDITY.....	1.2		JTU
4:	009 /ALKALINITY.....	2.		MG/L
5:	018 /SOLIDS, TOTAL (TS).....	40.		MG/L
6:	020 /SUSPENDED SOLIDS (SS).....	L5.		MG/L
7:	022 /MAGNESIUM (TOTAL).....	1.01		MG/L
8:	030 /SULPHATE (SO4).....	6.4		MG/L
9:	036 /CALCIUM (TOTAL).....	3.52		MG/L
10:	038 /STRONTIUM.....	.01		MG/L
11:	043 /SILVER (TOTAL).....	L.02		MG/L
12:	044 /ARSENIC (TOTAL).....	L.05		MG/L
13:	046 /CADMIUM (TOTAL).....	L.01		MG/L
14:	047 /CHROMIUM (TOTAL).....	L.01		MG/L
15:	048 /COPPER (TOTAL).....	L.01		MG/L
16:	049 /IRON (TOTAL).....	.25		MG/L
17:	051 /LEAD (TOTAL).....	L.02		MG/L
18:	052 /ANTIMONY (TOTAL).....	L0.20		MG/L
19:	054 /ZINC (TOTAL).....	L.01		MG/L
20:	128 /ACIDITY, TOTAL.....	L2.0		MG/L
21:	131 /TOTAL DISSOLVED SOLIDS (TDS)..	40.		MG/L
22:	159 /NICKEL (TOTAL).....	L.01		MG/L
23:	160 /MANGANESE (TOTAL).....	.13		MG/L
24:	161 /CHLORIDE.....	9.6		PPM
25:	162 /ALUMINUM (TOTAL).....	.07		MG/L
26:	202 /VANADIUM	"NO RESULT"		MG/L
27:	203 /BARIUM (BA)	L.01		MG/L

* B7PH032 - PHIL HENNEBURY STATUS AS OF DEC 4, 1987 *

REGISTERED ON: JUN 18, 1987; BY :PHIL H

LOCATOR: VCTJCN00/DEVCO VICTORIA JUNC. COAL PREP., SYDNEY
GENERAL

PROV: NS

PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN, DATE: 17/ 6/87 (JUN 17, 1987); TIME: 1130, FREQ: 1
SAMPLING ENDED, DATE: 17/ 6/87 (JUN 17, 1987); TIME: 1130

DEPTH: .00 METERS; TIDE:

NARRATIVE: DOWN STREAM IN NORTHWEST BK.
R/R BRIDGE

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	4.5	
2: 001F/PH.....	4.5	
3: 008 /TURBIDITY.....	3.3	
4: 009 /ALKALINITY.....	L2.	JTU
5: 018 /SOLIDS, TOTAL (TS).....	150.	MG/L
6: 020 /SUSPENDED SOLIDS (SS).....	L5.	MG/L
7: 022 /MAGNESIUM (TOTAL).....	5.27	MG/L
8: 030 /SULPHATE (SO4).....	52.	MG/L
9: 036 /CALCIUM (TOTAL).....	11.1	MG/L
10: 038 /STRONTIUM.....	.11	MG/L
11: 043 /SILVER (TOTAL).....	L.02	MG/L
12: 044 /ARSENIC (TOTAL).....	.09	MG/L
13: 046 /CADMIUM (TOTAL).....	L.01	MG/L
14: 047 /CHROMIUM (TOTAL).....	L.01	MG/L
15: 048 /COPPER (TOTAL).....	L.01	MG/L
16: 049 /IRON (TOTAL).....	1.75	MG/L
17: 051 /LEAD (TOTAL).....	L.02	MG/L
18: 052 /ANTIMONY (TOTAL).....	L0.20	MG/L
19: 054 /ZINC (TOTAL).....	.02	MG/L
20: 128 /ACIDITY, TOTAL.....	6.0	MG/L
21: 131 /TOTAL DISSOLVED SOLIDS (TDS)..	150.	MG/L
22: 159 /NICKEL (TOTAL).....	L.01	MG/L
23: 160 /MANGANESE (TOTAL).....	1.93	MG/L
24: 161 /CHLORIDE.....	19.	PPM
25: 162 /ALUMINUM (TOTAL).....	.34	MG/L
26: 202 /VANADIUM	"NO RESULT"	MG/L
27: 203 /BARIUM (BA) .....	.03	MG/L

DOMTAR CHEMICALS - SIFTO SALT

- WOOD PRESERVING
DIVISION

- SALMON RIVER

SALMON RIVER

* 87GT012 - GARTH TRIDER STATUS AS OF NOV 25, 1987 *

REGISTERED ON: SEP 22, 1987; BY :BOB G

LOCATOR: SALMNS01/SALMON RIVER, COLCHESTER COUNTY, (NS#3)

TOPO MAP 11 E/6; MILITARY GRID-779246

PROV: NS

PROJECT CODE: 237/ENV. CONTROL WOOD PRESERVING P&P

SAMPLING BEGAN: DATE: 18/ 9/87 (SEP 18, 1987); TIME: 1100; FREQ: 1

SAMPLING ENDED: DATE: 18/ 9/87 (SEP 18, 1987); TIME: 1100

DEPTH: .00 METERS; TIDE:

NARRATIVE: STATION A. SEDIMENT SAMPLE.

STA. A-STA. D, SOUTH-NORTH TRANSECT OF RIV.

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	215S/HEXACHLOROBENZENE	L0.002		UG/G
2:	216S/PENTACHLOROBENZENE	L0.002		UG/G
3:	217S/1,2,4,5 - TETRACHLOROBENZENE..	L0.002		UG/G
4:	219S/1,2,3,4 - TETRACHLOROBENZENE..	L0.002		UG/G
5:	220S/1,3,5 - TRICHLOROBENZENE	L0.002		UG/G
6:	221S/1,2,4 - TRICHLOROBENZENE	L0.002		UG/G
7:	222S/1,2,3 - TRICHLOROBENZENE	L0.002		UG/G
8:	223S/ORTHO - DICHLOROBENZENE	L0.02		UG/G
9:	224S/META - DICHLOROBENZENE	L0.02		UG/G
10:	282S/FLUORENE (SEDIMENT).....	0.010		UG/G
11:	284S/PHENANTHRENE (SEDIMENT).....	0.007		UG/G
12:	285S/PYRENE (SEDIMENT).....	0.017		UG/G
13:	286S/NAPHTHALENE (SEDIMENT).....	L0.005		UG/G
14:	294S/TRIPHENYLENE (SEDIMENT).....	L0.01		UG/G
15:	295S/FLUORANTHENE (SEDIMENT).....	0.019		UG/G
16:	297S/ANTHRACENE (SEDIMENT).....	L0.02		UG/G
17:	298S/BENZO(GHI)PERYLENE (SEDIMENT)	0.004		UG/G
18:	299S/BENZO(A)PYRENE (SEDIMENT)....	0.009		UG/G
19:	300S/BENZO(E)PYRENE (SEDIMENT)....	0.011		UG/G
20:	301S/CHRYSENE (SEDIMENT).....	0.015		UG/G
21:	302S/BENZO(K)FLUORANTHENE (SEDIMENT)	0.0041		UG/G
22:	303S/BENZO(B)FLUORANTHENE (SED)...	0.017		UG/G
23:	304S/INDENO(1,2,3-CD)PYRENE (SED).	0.006		UG/G
24:	391S/BENZO(A)ANTHRACENE (SEDIMENT)	0.007		UG/G
25:	646S/ACENAPHTHENE (SEDIMENT)	L0.005		UG/G
26:	647S/ACENAPHTHYLENE (SEDIMENT)	L0.01		UG/G
27:	649S/DIBENZ(AH)ANTHRACENE (SED.)	L0.001		UG/G

* 87GT013 - GARTH TRIDER

STATUS AS OF NOV 25, 1987 *

REGISTERED ON: SEP 22, 1987, BY :BOB G

LOCATOR: SALMNS01/SALMON RIVER, COLCHESTER COUNTY, (NS#3)

TOPO MAP 11 E/6, MILITARY GRID-779246

PROV: NS

PROJECT CODE: 237/ENV. CONTROL WOOD PRESERVING P&P

SAMPLING BEGAN: DATE: 18/ 9/87 (SEP 18, 1987); TIME: 1100 - FREQ: 1

SAMPLING ENDED: DATE: 18/ 9/87 (SEP 18, 1987); TIME: 1100

DEPTH: .00 METERS; TIDE:

NARRATIVE: STATION B, SEDIMENT SAMPLE.

STA. A-STA. D, SOUTH-NORTH TRANSECT OF RIV.

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	215S/HEXACHLOROBENZENE	L0.002		UG/G
2:	216S/PENTACHLOROBENZENE	L0.002		UG/G
3:	217S/1,2,4,5 - TETRACHLOROBENZENE..	L0.002		UG/G
4:	219S/1,2,3,4 - TETRACHLOROBENZENE..	L0.002		UG/G
5:	220S/1,3,5 - TRICHLOROBENZENE	L0.002		UG/G
6:	221S/1,2,4 - TRICHLOROBENZENE	L0.002		UG/G
7:	222S/1,2,3 - TRICHLOROBENZENE	L0.002		UG/G
8:	223S/ORTHO - DICHLOROBENZENE	L0.02		UG/G
9:	224S/META - DICHLOROBENZENE	L0.02		UG/G
10:	282S/FLUORENE (SEDIMENT).....	0.009		UG/G
11:	284S/PHENANTHRENE (SEDIMENT).....	L0.004		UG/G
12:	285S/PYRENE (SEDIMENT).....	0.013		UG/G
13:	286S/NAPHTHALENE (SEDIMENT).....	L0.005		UG/G
14:	294S/TRIPHENYLENE (SEDIMENT).....	L0.01		UG/G
15:	295S/FLUORANTHENE (SEDIMENT).....	0.019		UG/G
16:	297S/ANTHRACENE (SEDIMENT).....	L0.02		UG/G
17:	298S/BENZO (GHI)PERYLENE (SEDIMENT)	L0.004		UG/G
18:	299S/BENZO (A)PYRENE (SEDIMENT)....	0.005		UG/G
19:	300S/BENZO (E)PYRENE (SEDIMENT)....	0.009		UG/G
20:	301S/CHRYSENE (SEDIMENT).....	0.011		UG/G
21:	302S/BENZO (K)FLUORANTHENE (SEDIMENT)	0.0033		UG/G
22:	303S/BENZO (B)FLUORANTHENE (SED)...	0.015		UG/G
23:	304S/INDENO (1,2,3-CD)PYRENE (SED)...	0.005		UG/G
24:	391S/BENZO (A)ANTHRACENE (SEDIMENT)	0.005		UG/G
25:	646S/ACENAPHTHENE (SEDIMENT)	L0.005		UG/G
26:	647S/ACENAPHTHYLENE (SEDIMENT)	L0.01		UG/G
27:	648S/DIBENZ (AH)ANTHRACENE (SED.)	L0.001		UG/G

* 27GT014 - GARTH TRIDER STATUS AS OF NOV 25, 1987 *

REGISTERED ON: SEP 22, 1987; BY :BOB G

LOCATOR: SALMNS01/SALMON RIVER, COLCHESTER COUNTY, (NS#3)

TOPO MAP 11 E/6, MILITARY GRID-779246

PROV: NS

PROJECT CODE: 237/ENV. CONTROL WOOD PRESERVING P&P

SAMPLING BEGAN: DATE: 18/ 9/87 (SEP 18, 1987); TIME: 1100; FREQ: 1

SAMPLING ENDED: DATE: 18/ 9/87 (SEP 18, 1987); TIME: 1100

DEPTH: .00 METERS; TIDE:

NARRATIVE: STATION C. SEDIMENT SAMPLE.

STA. A-STA. D, SOUTH-NORTH TRANSECT OF RIV.

----- SAMPLE ANALYSIS -----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	215S/HEXACHLORO BENZENE	L0.002		UG/G
2:	216S/PENTACHLORO BENZENE	L0.002		UG/G
3:	217S/1,2,4,5 - TETRACHLORO BENZENE..	L0.002		UG/G
4:	219S/1,2,3,4 - TETRACHLORO BENZENE..	L0.002		UG/G
5:	220S/1,3,5 - TRICHLORO BENZENE	L0.002		UG/G
6:	221S/1,2,4 - TRICHLORO BENZENE	L0.002		UG/G
7:	222S/1,2,3 - TRICHLORO BENZENE	L0.002		UG/G
8:	223S/ORTHO - DICHLORO BENZENE	L0.02		UG/G
9:	224S/META - DICHLORO BENZENE	L0.02		UG/G
10:	282S/FLUORENE (SEDIMENT).....	0.012		UG/G
11:	284S/PHENANTHRENE (SEDIMENT).....	0.007		UG/G
12:	285S/PYRENE (SEDIMENT).....	0.045		UG/G
13:	286S/NAPHTHALENE (SEDIMENT).....	0.033		UG/G
14:	294S/TRIPHENYLENE (SEDIMENT).....	0.01		UG/G
15:	295S/FLUORANTHENE (SEDIMENT).....	0.023		UG/G
16:	297S/ANTHRACENE (SEDIMENT).....	0.02		UG/G
17:	298S/BENZO (GHI)PERYLENE (SEDIMENT)	0.004		UG/G
18:	299S/BENZO (A)PYRENE (SEDIMENT)....	0.011		UG/G
19:	300S/BENZO (E)PYRENE (SEDIMENT)....	0.015		UG/G
20:	301S/CHRYSENE (SEDIMENT).....	0.019		UG/G
21:	302S/BENZO (K)FLUORANTHENE (SEDIMENT)	0.0057		UG/G
22:	303S/BENZO (B)FLUORANTHENE (SED)...	0.020		UG/G
23:	304S/INDENO (1,2,3-CD)PYRENE (SED)	0.010		UG/G
24:	391S/BENZO (A)ANTHRACENE (SEDIMENT)	0.008		UG/G
25:	646S/ACENAPHTHENE (SEDIMENT)	L0.005		UG/G
26:	647S/ACENAPHTHYLENE (SEDIMENT)	L0.01		UG/G
27:	648S/DIBENZ (AH)ANTHRACENE (SED.)	0.002		UG/G

* 87GT015 - GARTH TRIDER STATUS AS OF NOV 25, 1987 *

REGISTERED ON: SEP 22, 1987; BY :BOB G

LOCATOR: SALMNS01/SALMON RIVER, COLCHESTER COUNTY, (NS#3)

TOPO MAP 11 E/6, MILITARY GRID-779246

FROM: NS

PROJECT CODE: 237/ENV. CONTROL WOOD PRESERVING P&P

SAMPLING BEGAN: DATE: 18/ 9/87 (SEP 18, 1987); TIME: 1100; FREQ: 1

SAMPLING ENDED: DATE: 18/ 9/87 (SEP 18, 1987); TIME: 1100

DEPTH: .00 METERS; TIDE:

NARRATIVE: STATION D, SEDIMENT SAMPLE.

STA. A-STA. D, SOUTH-NORTH TRANSECT OF RIV.

----- SAMPLE ANALYSIS -----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	215S/HEXACHLOROBENZENE	LO.002		UG/G
2:	216S/PENTACHLOROBENZENE	LO.002		UG/G
3:	217S/1,2,4,5 - TETRACHLOROBENZENE..	LO.002		UG/G
4:	219S/1,2,3,4 - TETRACHLOROBENZENE..	LO.002		UG/G
5:	220S/1,3,5 - TRICHLOROBENZENE	LO.002		UG/G
6:	221S/1,2,4 - TRICHLOROBENZENE	LO.002		UG/G
7:	222S/1,2,3 - TRICHLOROBENZENE	LO.002		UG/G
8:	223S/ORTHO - DICHLOROBENZENE	LO.02		UG/G
9:	224S/META - DICHLOROBENZENE	LO.02		UG/G
10:	282S/FLUORENE (SEDIMENT).....	0.095		UG/G
11:	284S/PHENANTHRENE (SEDIMENT).....	0.13		UG/G
12:	285S/PYRENE (SEDIMENT).....	0.031		UG/G
13:	286S/NAPHTHALENE (SEDIMENT).....	0.26		UG/G
14:	294S/TRIPHENYLENE (SEDIMENT).....	LO.01		UG/G
15:	295S/FLUORANTHENE (SEDIMENT).....	0.041		UG/G
16:	297S/ANTHRACENE (SEDIMENT).....	0.03		UG/G
17:	298S/BENZO(GH)PERYLENE (SEDIMENT)	0.004		UG/G
18:	299S/BENZO(A)PYRENE (SEDIMENT)....	0.009		UG/G
19:	300S/BENZO(E)PYRENE (SEDIMENT)....	0.009		UG/G
20:	301S/CHRYSENE (SEDIMENT).....	0.018		UG/G
21:	302S/BENZO(K)FLUORANTHENE (SEDIMENT)	0.0044		UG/G
22:	303S/BENZO(B)FLUORANTHENE (SED.)...	0.013		UG/G
23:	304S/INDENO(1,2,3-CD)PYRENE (SED.)	0.009		UG/G
24:	391S/BENZO(A)ANTHRACENE (SEDIMENT)	0.009		UG/G
25:	646S/ACENAPHTHENE (SEDIMENT)	0.16		UG/G
26:	647S/ACENAPHTHYLENE (SEDIMENT)	LO.01		UG/G
27:	648S/DIBENZ(AH)ANTHRACENE (SED.)	LO.001		UG/G

 * 87GT016 - GARTH TRIDER STATUS AS OF NOV 25, 1987 *

REGISTERED ON: SEP 22, 1987, BY :BOB G

LOCATOR: SALMNS03/SALMON RIVER, COLCHESTER COUNTY

TOPO MAP 11 E/6, MILITARY GRID-781239

PROV: NS

PROJECT CODE: 237/ENV. CONTROL WOOD PRESERVING P&P

SAMPLING BEGAN: DATE: 18/ 9/87 (SEP 18, 1987), TIME: 1100, FREQ: 1

SAMPLING ENDED: DATE: 18/ 9/87 (SEP 18, 1987), TIME: 1100

DEPTH: .00 METERS, TIDE:

NARRATIVE: STATION A, SEDIMENT SAMPLE.

STA. A-STA. D, WEST-EAST TRANSECT OF RIVER.

---- SAMPLE ANALYSIS ----

PARAMETER	VALUE	UNITS
1: 215S/HEXACHLOROBENZENE	LO.002	UG/G
2: 216S/PENTACHLOROBENZENE	LO.002	UG/G
3: 217S/1,2,4,5 - TETRACHLOROBENZENE	LO.002	UG/G
4: 218S/1,2,3,5 - TETRACHLOROBENZENE	LO.002	UG/G
5: 219S/1,2,3,4 - TETRACHLOROBENZENE	LO.002	UG/G
6: 220S/1,3,5 - TRICHLOROBENZENE	LO.002	UG/G
7: 221S/1,2,4 - TRICHLOROBENZENE	LO.002	UG/G
8: 222S/1,2,3 - TRICHLOROBENZENE	LO.002	UG/G
9: 223S/ORTHO - DICHLOROBENZENE	LO.02	UG/G
10: 224S/META - DICHLOROBENZENE	LO.02	UG/G
11: 282S/FLUORENE (SEDIMENT)	LO.005	UG/G
12: 284S/PHENANTHRENE (SEDIMENT)	0.24	UG/G
13: 285S/PYRENE (SEDIMENT)	0.012	UG/G
14: 286S/NAPHTHALENE (SEDIMENT)	LO.005	UG/G
15: 294S/TRIPHENYLENE (SEDIMENT)	0.03	UG/G
16: 295S/FLUORANTHENE (SEDIMENT)	0.044	UG/G
17: 297S/ANTHRACENE (SEDIMENT)	LO.02	UG/G
18: 298S/BENZO(GHI)PERYLENE (SEDIMENT)	0.005	UG/G
19: 299S/BENZO(A)PYRENE (SEDIMENT)	0.011	UG/G
20: 300S/BENZO(E)PYRENE (SEDIMENT)	0.018	UG/G
21: 301S/CHRYSENE (SEDIMENT)	0.021	UG/G
22: 302S/BENZO(K)FLUORANTHENE (SEDIMENT)	0.0065	UG/G
23: 303S/BENZO(B)FLUORANTHENE (SED)	0.026	UG/G
24: 304S/INDENO(1,2,3-CD)PYRENE (SED)	0.013	UG/G
25: 391S/BENZO(A)ANTHRACENE (SEDIMENT)	0.010	UG/G
26: 646S/ACENAPHTHENE (SEDIMENT)	LO.005	UG/G
27: 647S/ACENAPHTHYLENE (SEDIMENT)	LO.01	UG/G
28: 648S/DIBENZ(AH)ANTHRACENE (SED.)	LO.001	UG/G

* 87GT017 - GARTH TRIDER STATUS AS OF NOV 25, 1987 *

REGISTERED ON: SEP 22, 1987; BY :BOB G

LOCATOR: SALMNS03/SALMON RIVER, COLCHESTER COUNTY

TOPO MAP 11 E/6, MILITARY GRID-Z81239

PROVINCE:

PROJECT CODE: 237/ENV. CONTROL WOOD PRESERVING P&P

SAMPLING BEGAN: DATE: 18/ 9/87 (SEP 18, 1987); TIME: 1100; FREQ: 1
SAMPLING ENDED: DATE: 18/ 9/87 (SEP 18, 1987); TIME: 1100

DEPTH: .00 METERS; TIDE:

NARRATIVE: SALMON RIVER SEDIMENT SAMPLE.
50 m SOUTH OF SALMNS03; STATION A.

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	215S/HEXACHLOROBENZENE		LO.002	UG/G
2:	216S/PENTACHLOROBENZENE		LO.002	UG/G
3:	217S/1,2,4,5 - TETRACHLOROBENZENE..		LO.002	UG/G
4:	218S/1,2,3,5 - TETRACHLOROBENZENE..		LO.002	UG/G
5:	219S/1,2,3,4 - TETRACHLOROBENZENE..		LO.002	UG/G
6:	220S/1,3,5 - TRICHLOROBENZENE		LO.002	UG/G
7:	221S/1,2,4 - TRICHLOROBENZENE		LO.002	UG/G
8:	222S/1,2,3 - TRICHLOROBENZENE		LO.002	UG/G
9:	223S/ORTHO - DICHLOROBENZENE		LO.02	UG/G
10:	224S/META - DICHLOROBENZENE		LO.02	UG/G
11:	282S/FLUORENE (SEDIMENT).....		0.007	UG/G
12:	284S/PHENANTHRENE (SEDIMENT).....		0.070	UG/G
13:	285S/PYRENE (SEDIMENT).....		0.011	UG/G
14:	286S/NAPHTHALENE (SEDIMENT).....		LO.005	UG/G
15:	294S/TRIPHENYLENE (SEDIMENT).....		0.01	UG/G
16:	295S/FLUORANTHRENE (SEDIMENT).....		0.027	UG/G
17:	297S/ANTHRACENE (SEDIMENT).....		LO.02	UG/G
18:	298S/BENZO(GHI)PERYLENE (SEDIMENT)		0.008	UG/G
19:	299S/BENZO(A)PYRENE (SEDIMENT)....		0.011	UG/G
20:	300S/BENZO(E)PYRENE (SEDIMENT)....		0.014	UG/G
21:	301S/CHRYSENE (SEDIMENT).....		0.020	UG/G
22:	302S/BENZO(K)FLUORANTHRENE (SEDIMENT)		0.0060	UG/G
23:	303S/BENZO(B)FLUORANTHRENE (SED)...		0.023	UG/G
24:	304S/INDENO(1,2,3-CD)PYRENE (SED)...		0.014	UG/G
25:	391S/BENZO(A)ANTHRACENE (SEDIMENT)		0.009	UG/G
26:	646S/ACENAPHTHENE (SEDIMENT)		LO.005	UG/G
27:	647S/ACENAPHTHYLENE (SEDIMENT)		LO.01	UG/G
28:	648S/DIBENZ(AH)ANTHRACENE (SED.)		0.001	UG/G

* 97GT018 - GARTH TRIDER STATUS AS OF NOV 25, 1987 *

REGISTERED ON: SEP 22, 1987, BY BOB G

LOCATOR: SALMNS03/SALMON RIVER, COLCHESTER COUNTY
TOPO MAP 11 E/6, MILITARY GRID-781239 PROV: NS
PROJECT CODE: 237/ENV. CONTROL WOOD PRESERVING P&P

SAMPLING BEGAN: DATE: 18/ 9/87 (SEP 18, 1987); TIME: 1100; FREQ: 1
SAMPLING ENDED: DATE: 18/ 9/87 (SEP 18, 1987); TIME: 1100

DEPTH: .00 METERS; TIDE:

NARRATIVE: STATION B. SEDIMENT SAMPLE.

STA. A-STA. D, WEST-EAST TRANSECT OF RIVER.

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	215S/HEXACHLOROBENZENE	L0.002		UG/G
2:	216S/PENTACHLOROBENZENE	L0.002		UG/G
3:	217S/1,2,4,5 - TETRACHLOROBENZENE..	L0.002		UG/G
4:	218S/1,2,3,5 - TETRACHLOROBENZENE..	L0.002		UG/G
5:	219S/1,2,3,4 - TETRACHLOROBENZENE..	L0.002		UG/G
6:	220S/1,3,5 - TRICHLOROBENZENE	L0.002		UG/G
7:	221S/1,2,4 - TRICHLOROBENZENE	L0.002		UG/G
8:	222S/1,2,3 - TRICHLOROBENZENE	L0.002		UG/G
9:	223S/ORTHO - DICHLOROBENZENE	L0.02		UG/G
10:	224S/META - DICHLOROBENZENE	L0.02		UG/G

* 87GT019 - GARTH TRIDER STATUS AS OF NOV 25, 1987 *

REGISTERED ON: SEP 22, 1987, BY (BOB G

LOCATOR: SALMNS03/SALMON RIVER, COLCHESTER COUNTY

TOPO MAP 11 E/6, MILITARY GRID-281239

PROV: NS

PROJECT CODE: 237/ENV. CONTROL WOOD PRESERVING P&P

SAMPLING BEGAN: DATE: 10/ 9/87 (SEP 18, 1987); TIME: 1100- FREQ: 1
SAMPLING ENDED: DATE: 10/ 9/87 (SEP 18, 1987); TIME: 1100

DEPTH: .00 METERS; TIDE:

NARRATIVE: STATION C. (SEDIMENT) SAMPLE.

STA. A-STA. D, WEST-EAST TRANSECT OF RIVER.

----- SAMPLE ANALYSIS -----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	215S/HEXACHLOROBENZENE	L0.002		UG/G
2:	216S/PENTACHLOROBENZENE	L0.002		UG/G
3:	217S/1,2,4,5 - TETRACHLOROBENZENE..	L0.002		UG/G
4:	218S/1,2,3,5 - TETRACHLOROBENZENE..	L0.002		UG/G
5:	219S/1,2,3,4 - TETRACHLOROBENZENE..	L0.002		UG/G
6:	220S/1,3,5 - TRICHLOROBENZENE	L0.002		UG/G
7:	221S/1,2,4 - TRICHLOROBENZENE	L0.002		UG/G
8:	222S/1,2,3 - TRICHLOROBENZENE	L0.002		UG/G
9:	223S/ORTHO - DICHLOROBENZENE	L0.02		UG/G
10:	224S/META - DICHLOROBENZENE	L0.02		UG/G
11:	282S/FLUORENE (SEDIMENT).....	L0.005		UG/G
12:	284S/PHENANTHRENE (SEDIMENT).....	0.019		UG/G
13:	285S/PYRENE (SEDIMENT).....	0.022		UG/G
14:	286S/NAPHTHALENE (SEDIMENT).....	L0.005		UG/G
15:	294S/TRIPHENYLENE (SEDIMENT).....	0.02		UG/G
16:	295S/FLUORANTHENE (SEDIMENT).....	0.033		UG/G
17:	297S/ANTHRACENE (SEDIMENT).....	L0.02		UG/G
18:	298S/BENZO(GHI)PERYLENE (SEDIMENT)	0.006		UG/G
19:	299S/BENZO(A)PYRENE (SEDIMENT)....	0.011		UG/G
20:	300S/BENZO(E)PYRENE (SEDIMENT)....	0.011		UG/G
21:	301S/CHRYSENE (SEDIMENT).....	0.011		UG/G
22:	302S/BENZO(K)FLUORANTHENE (SEDIMENT)	0.0053		UG/G
23:	303S/BENZO(B)FLUORANTHENE (SED)...	0.022		UG/G
24:	304S/INDENO(1,2,3-CD)PYRENE (SED)...	0.009		UG/G
25:	391S/BENZO(A)ANTHRACENE (SEDIMENT)	0.011		UG/G
26:	646S/ACENAPHTHENE (SEDIMENT)	L0.005		UG/G
27:	647S/ACENAPHTHYLENE (SEDIMENT)	L0.01		UG/G
28:	648S/DIBENZ(AH)ANTHRACENE (SED.)	0.004		UG/G

 * 87GT020 - GARTH TRIDER STATUS AS OF NOV 23, 1987 *

REGISTERED ON: SEP 22, 1987; BY :BOB G

LOCATOR: SALMNS03/SALMON RIVER; COLCHESTER COUNTY

TOPO MAP 11 E/6, MILITARY GRID-791239

PROV: NS

PROJECT CODE: 237/ENV. CONTROL WOOD PRESERVING P&P

SAMPLING BEGAN: DATE: 18/ 9/87 (SEP 18, 1987); TIME: 1100; FREQ: 1
 SAMPLING ENDED: DATE: 18/ 9/87 (SEP 18, 1987); TIME: 1100

DEPTH: .00 METERS; TIDE:

NARRATIVE: STATION D. SEDIMENT SAMPLE.

STA. A-STA. D; WEST-EAST TRANSECT OF RIVER.

---- SAMPLE ANALYSIS ----

PARAMETER	VALUE	UNITS
1: 215S/HEXACHLOROBENZENE	LO.002	UG/G
2: 216S/PENTACHLOROBENZENE	LO.002	UG/G
3: 217S/1,2,4,5 - TETRACHLOROBENZENE..	LO.002	UG/G
4: 218S/1,2,3,5 - TETRACHLOROBENZENE..	LO.002	UG/G
5: 219S/1,2,3,4 - TETRACHLOROBENZENE..	LO.002	UG/G
6: 220S/1,3,5 - TRICHLOROBENZENE	LO.002	UG/G
7: 221S/1,2,4 - TRICHLOROBENZENE	LO.002	UG/G
8: 222S/1,2,3 - TRICHLOROBENZENE	LO.002	UG/G
9: 223S/ORTHO - DICHLOROBENZENE	LO.02	UG/G
10: 224S/META - DICHLOROBENZENE	LO.02	UG/G
11: 282S/FLUORENE (SEDIMENT)	LO.008	UG/G
12: 284S/PHENANTHRENE (SEDIMENT)	0.017	UG/G
13: 285S/PYRENE (SEDIMENT)	0.015	UG/G
14: 286S/NAPHTHALENE (SEDIMENT)	LO.005	UG/G
15: 294S/TRIPHENYLENE (SEDIMENT)	LO.01	UG/G
16: 295S/FLUORANTHENE (SEDIMENT)	0.026	UG/G
17: 297S/ANTHRACENE (SEDIMENT)	LO.02	UG/G
18: 298S/BENZO (GHI) PERYLENE (SEDIMENT)	0.005	UG/G
19: 299S/BENZO (A) PYRENE (SEDIMENT)	0.010	UG/G
20: 300S/BENZO (E) PYRENE (SEDIMENT)	0.011	UG/G
21: 301S/CHRYSENE (SEDIMENT)	0.012	UG/G
22: 302S/BENZO (K) FLUORANTHENE (SEDIMENT)	0.005	UG/G
23: 303S/BENZO (B) FLUORANTHENE (SED)	0.022	UG/G
24: 304S/INDENO (1,2,3-CD) PYRENE (SED)	0.008	UG/G
25: 391S/BENZO (A) ANTHRACENE (SEDIMENT)	0.008	UG/G
26: 646S/ACENAPHTHENE (SEDIMENT)	LO.005	UG/G
27: 647S/ACENAPHTHYLENE (SEDIMENT)	LO.01	UG/G
28: 648S/DIBENZ (AH) ANTHRACENE (SED.)	LO.001	UG/G

 * 87GT021 - GARTH TRIDER STATUS AS OF NOV 25, 1987 *

REGISTERED ON: SEP 22, 1987; BY :BOB G

LOCATOR: DOMTRU01/DONTAR CHEMICALS WOOD PRESERVING DIV
 FINAL EFFLUENT TO RIVER

PROV: NS

PROJECT CODE: 23//ENV. CONTROL WOOD PRESERVING P&P

SAMPLING BEGAN: DATE: 18/ 9/87 (SEP 18, 1987); TIME: 1100- FREQ: 1
 SAMPLING ENDED: DATE: 18/ 9/87 (SEP 18, 1987); TIME: 1100

DEPTH: .00 METERS; TIDE:

NARRATIVE: SEDIMENT SAMPLE FROM DISCHARGE BROOK.
 JUST BELOW MOUTH OF CULVERT.

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE	UNITS
1: 215S/HEXACHLOROBENZENE	LO.002	UG/G
2: 216S/PENTACHLOROBENZENE	LO.002	UG/G
3: 217S/1,2,4,5 - TETRACHLOROBENZENE..	LO.002	UG/G
4: 218S/1,2,3,5 - TETRACHLOROBENZENE..	LO.002	UG/G
5: 219S/1,2,3,4 - TETRACHLOROBENZENE..	LO.002	UG/G
6: 220S/1,3,5 - TRICHLOROBENZENE	LO.002	UG/G
7: 221S/1,2,4 - TRICHLOROBENZENE	LO.002	UG/G
8: 222S/1,2,3 - TRICHLOROBENZENE	LO.002	UG/G
9: 223S/ORTHO - DICHLOROBENZENE	LO.02	UG/G
10: 224S/META - DICHLOROBENZENE	LO.02	UG/G
11: 282S/FLUORENE (SEDIMENT).....	LO.005	UG/G
12: 284S/PHENANTHRENE (SEDIMENT).....	0.28	UG/G
13: 285S/PYRENE (SEDIMENT).....	0.18	UG/G
14: 286S/NAPHTHALENE (SEDIMENT).....	0.72	UG/G
15: 294S/TRIPHENYLENE (SEDIMENT).....	0.06	UG/G
16: 295S/FLUORANTHENE (SEDIMENT).....	0.32	UG/G
17: 297S/ANTHRACENE (SEDIMENT).....	0.16	UG/G
18: 298S/BENZO (GHI)PERYLENE (SEDIMENT)	0.024	UG/G
19: 299S/BENZO (G)PYRENE (SEDIMENT)....	0.061	UG/G
20: 300S/BENZO (E)PYRENE (SEDIMENT)....	0.063	UG/G
21: 301S/CHRYSENE (SEDIMENT).....	0.12	UG/G
22: 302S/BENZO (K)FLUORANTHENE (SEDIMENT)	0.027	UG/G
23: 303S/BENZO (B)FLUORANTHENE (SED)...	0.071	UG/G
24: 304S/INDENO (1,2,3-CD)PYRENE (SED)...	0.041	UG/G
25: 391S/BENZO (A)ANTHRACENE (SEDIMENT)	0.058	UG/G
26: 646S/ACENAPHTHENE (SEDIMENT)	0.20	UG/G
27: 647S/ACENAPHTHYLENE (SEDIMENT)	LO.01	UG/G
28: 648S/DIBENZ (GH)ANTHRACENE (SED.)	0.007	UG/G

REGISTERED ON: SEP 22, 1987; BY :ROB G

LOCATOR: DONTRU01/DOKTOR CHEMICALS WOOD PRESERVING DIV
 FINAL EFFLUENT TO RIVER

PROV: NS

PROJECT CODE: 237/ENV. CONTROL WOOD PRESERVING P&P

SAMPLING BEGAN: DATE: 18/ 9/87 (SEP 18, 1987); TIME: 1100; FROM: 1

SAMPLING ENDED: DATE: 18/ 9/87 (SEP 18, 1987); TIME: 1100

DEPTH: .00 METERS; TIDE:

NARRATIVE: SEDIMENT SAMPLE FROM DISCHARGE BROOK.
 JUST ABOVE CONFLUENCE WITH RIVER.

---- SAMPLE ANALYSIS ----

PARAMETER	VALUE	UNITS
1: 215S/HEXACHLOROBENZENE	LO.002	UG/G
2: 216S/PENTACHLOROBENZENE	LO.002	UG/G
3: 217S/1,2,4,5 - TETRACHLOROBENZENE	LO.002	UG/G
4: 218S/1,2,3,5 - TETRACHLOROBENZENE	LO.002	UG/G
5: 219S/1,2,3,4 - TETRACHLOROBENZENE	LO.002	UG/G
6: 220S/1,3,5 - TRICHLOROBENZENE	LO.002	UG/G
7: 221S/1,2,4 - TRICHLOROBENZENE	LO.002	UG/G
8: 222S/1,2,3 - TRICHLOROBENZENE	LO.002	UG/G
9: 223S/ORTHO - DICHLOROBENZENE	LO.02	UG/G
10: 224S/META - DICHLOROBENZENE	LO.02	UG/G
11: 282S/FLUORENE (SEDIMENT)	0.083	UG/G
12: 284S/PHENANTHRENE (SEDIMENT)	0.24	UG/G
13: 285S/PYRENE (SEDIMENT)	0.13	UG/G
14: 286S/NAPHTHALENE (SEDIMENT)	0.86	UG/G
15: 294S/TRIPHENYLENE (SEDIMENT)	0.02	UG/G
16: 295S/FLUORANTHENE (SEDIMENT)	0.20	UG/G
17: 297S/ANTHRACENE (SEDIMENT)	0.14	UG/G
18: 298S/BENZO (GHI)PERYLENE (SEDIMENT)	0.014	UG/G
19: 299S/BENZO (A)PYRENE (SEDIMENT)	0.035	UG/G
20: 300S/BENZO (E)PYRENE (SEDIMENT)	0.029	UG/G
21: 301S/CHRYSENE (SEDIMENT)	0.032	UG/G
22: 302S/BENZO (K)FLUORANTHENE (SEDIMENT)	0.015	UG/G
23: 303S/BENZO (B)FLUORANTHENE (SED)	0.050	UG/G
24: 304S/INDENO (1,2,3-CD)PYRENE (SED)	0.021	UG/G
25: 391S/BENZO (A)ANTHRACENE (SEDIMENT)	0.030	UG/G
26: 646S/ACENAPHTHENE (SEDIMENT)	LO.005	UG/G
27: 647S/ACENAPHTHYLENE (SEDIMENT)	0.04	UG/G
28: 648S/DIBENZ (GH)ANTHRACENE (SED.)	0.003	UG/G

* B70A039 - OUTSIDE AGENCIES STATUS AS OF SEP 18, 1987 *

REGISTERED ON: JUL 2, 1987; BY :CHEMLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES; R.S.

PROV: NS

PROJECT CODE: 264/TECH SERV. - TOXIC CHEM; WATER POLLUTION

SAMPLING BEGAN; DATE: 29/ 6/87 (JUN 29, 1987); TIME: 800; FREQ: 1
SAMPLING ENDED; DATE: 29/ 6/87 (JUN 29, 1987); TIME: 800

DEPTH: .00 METERS; TIDE:

NARRATIVE: SALMON RIVER; 1/2 HIGH TIDE;
LOCATION # 4B

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	282 /FLUORENE.....		L0.0001	MG/L
2:	284 /PHENANTHRENE.....		L0.0001	MG/L
3:	285 /PYRENE.....		L0.00008	MG/L
4:	286 /NAPHTHALENE.....		L0.0002	MG/L
5:	294 /TRIPHENYLENE.....		L0.0001	MG/L
6:	295 /FLUORANTHENE.....		L0.00003	MG/L
7:	297 /ANTHRACENE.....		L0.0005	MG/L
8:	298 /BENZO(GHI)PERYLENE.....		L0.00005	MG/L
9:	299 /BENZO(A)PYRENE.....		L0.00001	MG/L
10:	300 /BENZO(E)PYRENE.....		L0.00006	MG/L
11:	301 /CHRYSENE.....		L0.00008	MG/L
12:	302 /BENZO(K)FLUORANTHENE.....		L0.000003	MG/L
13:	303 /BENZO(B)FLUORANTHENE.....		L0.00001	MG/L
14:	304 /INDENO(1,2,3-CD)PYRENE.....		L0.00003	MG/L
15:	391 /BENZO(A)ANTHRACENE.....		L0.00002	MG/L
16:	646 /ACENAPHTHENE		L0.0002	MG/L
17:	647 /ACENAPHTHYLENE		L0.0005	MG/L
18:	648 /DIBENZ(AH)ANTHRACENE		L0.00003	MG/L

* 870A041 - OUTSIDE AGENCIES

STATUS AS OF SEP 18, 1987 *

REGISTERED ON: JUL 2, 1987, BY :CHENLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 264/TECH SERV. - TOXIC CHEM, WATER POLLUTION

SAMPLING BEGAN, DATE: 29/ 6/87 (JUN 29, 1987), TIME: 800, FREQ: 1

SAMPLING ENDED, DATE: 29/ 6/87 (JUN 29, 1987), TIME: 800

DEPTH: .00 METERS, TIDE:

NARRATIVE: SALMON RIVER; LOW, LOW TIDE.

LOCATION #3.

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	282 /FLUORENE.....		LO.0001	MG/L
2:	284 /PHENANTHRENE.....		LO.0001	MG/L
3:	285 /PYRENE.....		LO.00008	MG/L
4:	286 /NAPHTHALENE.....		LO.0002	MG/L
5:	294 /TRIPHENYLENE.....		LO.0001	MG/L
6:	295 /FLUORANTHENE.....		LO.00003	MG/L
7:	297 /ANTHRACENE.....		LO.0005	MG/L
8:	298 /BENZO(GHI)PERYLENE.....		LO.00005	MG/L
9:	299 /BENZO(A)PYRENE.....		LO.00001	MG/L
10:	300 /BENZO(E)PYRENE.....		LO.00006	MG/L
11:	301 /CHRYSENE.....		LO.00008	MG/L
12:	302 /BENZO(K)FLUORANTHENE.....		LO.000003	MG/L
13:	303 /BENZO(B)FLUORANTHENE.....		LO.00001	MG/L
14:	304 /INDENO(1,2,3-CD)PYRENE.....		LO.00003	MG/L
15:	391 /BENZO(A)ANTHRACENE.....		LO.00002	MG/L
16:	646 /ACENAPHTHENE		LO.0002	MG/L
17:	647 /ACENAPHTHYLENE		LO.0005	MG/L
18:	648 /DIBENZ(AH)ANTHRACENE		LO.00003	MG/L

* B70A042 - OUTSIDE AGENCIES

STATUS AS OF SEP 18, 1987 *

REGISTERED ON: JUL 2, 1987, BY :CHEKLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 264/TECH SERV. - TOXIC CHEM; WATER POLLUTION

SAMPLING BEGAN; DATE: 29/ 6/87 (JUN 29, 1987), TIME: 800, FREQ: 1

SAMPLING ENDED; DATE: 29/ 6/87 (JUN 29, 1987), TIME: 800

DEPTH: .00 METERS; TIDE:

NARRATIVE: SALMON RIVER; HIGH TIDE

LOCATION #3

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	..... VALUE	UNITS
1:	282 /FLUORENE.....	LO.0001	MG/L
2:	284 /PHENANTHRENE.....	LO.0001	MG/L
3:	285 /PYRENE.....	LO.00008	MG/L
4:	286 /NAPHTHALENE.....	LO.0002	MG/L
5:	294 /TRIPHENYLENE.....	LO.0001	MG/L
6:	295 /FLUORANTHENE.....	LO.00003	MG/L
7:	297 /ANTHRACENE.....	LO.0005	MG/L
8:	298 /BENZO(GHI)PERYLENE.....	LO.00005	MG/L
9:	299 /BENZO(A)PYRENE.....	LO.00001	MG/L
10:	300 /BENZO(E)PYRENE.....	LO.00006	MG/L
11:	301 /CHRYSENE.....	LO.00008	MG/L
12:	302 /BENZO(K)FLUORANTHENE.....	LO.000003	MG/L
13:	303 /BENZO(B)FLUORANTHENE.....	LO.00001	MG/L
14:	304 /INDENO(1,2,3-CD)PYRENE.....	LO.00003	MG/L
15:	391 /BENZO(A)ANTHRACENE.....	LO.00002	MG/L
16:	646 /ACENAPHTHENE	LO.0002	MG/L
17:	647 /ACENAPHTHYLENE	LO.0005	MG/L
18:	648 /DIBENZ(AH)ANTHRACENE	LO.00003	MG/L

* B70A043 - OUTSIDE AGENCIES STATUS AS OF SEP 18, 1987 *

REGISTERED ON: JUL 2, 1987, BY :CHEMLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 264/TECH SERV. - TOXIC CHEM, WATER POLLUTION

SAMPLING BEGAN, DATE: 29/ 6/87 (JUN 29, 1987), TIME: 800, FREQ: 1

SAMPLING ENDED, DATE: 29/ 6/87 (JUN 29, 1987), TIME: 800

DEPTH: .00 METERS, TIDE:

NARRATIVE: SALMON RIVER; NO TIDE INDICATION GIVEN.
LOCATION # 2.

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	282 /FLUORENE.....		L0.0001	MG/L
2:	284 /PHENANTHRENE.....		L0.0001	MG/L
3:	285 /PYRENE.....		L0.00008	MG/L
4:	286 /NAPHTHALENE.....		L0.0002	MG/L
5:	294 /TRIPHENYLENE.....		L.0001	MG/L
6:	295 /FLUORANTHENE.....		L.00003	MG/L
7:	297 /ANTHRACENE.....		L0.0005	MG/L
8:	298 /BENZO(GHI)PERYLENE.....		L0.00005	MG/L
9:	299 /BENZO(A)PYRENE.....		L0.00001	MG/L
10:	300 /BENZO(E)PYRENE.....		L0.00006	MG/L
11:	301 /CHRYSENE.....		L0.00008	MG/L
12:	302 /BENZO(K)FLUORANTHENE.....		L0.000003	MG/L
13:	303 /BENZO(B)FLUORANTHENE.....		L0.00001	MG/L
14:	304 /INDENO(1,2,3-CD)PYRENE.....		L0.00003	MG/L
15:	391 /BENZO(A)ANTHRACENE.....		L0.00002	MG/L
16:	646 /ACENAPHTHENE		L0.0002	MG/L
17:	647 /ACENAPHTHYLENE		L0.0005	MG/L
18:	648 /DIBENZ(AH)ANTHRACENE		L0.00003	MG/L

* 870A044 - OUTSIDE AGENCIES STATUS AS OF SEP 18, 1987 *

REGISTERED ON: JUL 2, 1987, BY :CHEMLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 264/TECH SERV. - TOXIC CHEM, WATER POLLUTION

SAMPLING BEGAN, DATE: 29/ 6/87 (JUN 29, 1987), TIME: 800, FREQ: 1

SAMPLING ENDED, DATE: 29/ 6/87 (JUN 29, 1987), TIME: 800

DEPTH: .00 METERS, TIDE:

NARRATIVE: SALMON RIVER; 1/2 LOW TIDE
LOCATION #3.

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	282 /FLUORENE.....	LO.0001		MG/L
2:	284 /PHENANTHRENE.....	LO.0001		MG/L
3:	285 /PYRENE.....	LO.00008		MG/L
4:	286 /NAPHTHALENE.....	LO.0002		MG/L
5:	294 /TRIPHENYLENE.....	LO.0001		MG/L
6:	295 /FLUORANTHENE.....	LO.00003		MG/L
7:	297 /ANTHRACENE.....	LO.0005		MG/L
8:	298 /BENZO(GHI)PERYLENE.....	LO.00005		MG/L
9:	299 /BENZO(A)PYRENE.....	LO.00001		MG/L
10:	300 /BENZO(E)PYRENE.....	LO.00006		MG/L
11:	301 /CHRYSENE.....	LO.00008		MG/L
12:	302 /BENZO(K)FLUORANTHENE.....	LO.000003		MG/L
13:	303 /BENZO(B)FLUORANTHENE.....	LO.00001		MG/L
14:	304 /INDENO(1,2,3-CD)PYRENE.....	LO.00003		MG/L
15:	391 /BENZO(A)ANTHRACENE.....	LO.00002		MG/L
16:	646 /ACENAPHTHENE	LO.0002		MG/L
17:	647 /ACENAPHTHYLENE	LO.0005		MG/L
18:	648 /DIBENZ(AH)ANTHRACENE	LO.00003		MG/L

* 870A045 - OUTSIDE AGENCIES STATUS AS OF SEP 18, 1987 *

REGISTERED ON: JUL 2, 1987; BY :CHEMLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 264/TECH SERV. - TOXIC CHEM, WATER POLLUTION

SAMPLING BEGAN, DATE: 29/ 6/87 (JUN 29, 1987), TIME: 800, FREQ: 1

SAMPLING ENDED, DATE: 29/ 6/87 (JUN 29, 1987), TIME: 800

DEPTH: .00 METERS; TIDE:

NARRATIVE: SALMON RIVER; 1/2 HIGH TIDE

LOCATION # 3B.

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	282 /FLUORENE.....	LO.0001		MG/L
2:	284 /PHENANTHRENE.....	LO.0001		MG/L
3:	285 /PYRENE.....	LO.00008		MG/L
4:	286 /NAPHTHALENE.....	LO.0002		MG/L
5:	294 /TRIPHENYLENE.....	LO.0001		MG/L
6:	295 /FLUORANTHENE.....	LO.00003		MG/L
7:	297 /ANTHRACENE.....	LO.0005		MG/L
8:	298 /BENZO(GHI)PERYLENE.....	LO.00005		MG/L
9:	299 /BENZO(A)PYRENE.....	LO.00001		MG/L
10:	300 /BENZO(E)PYRENE.....	LO.00006		MG/L
11:	301 /CHRYSENE.....	LO.00008		MG/L
12:	302 /BENZO(K)FLUORANTHENE.....	LO.000003		MG/L
13:	303 /BENZO(B)FLUORANTHENE.....	LO.00001		MG/L
14:	304 /INDENO(1,2,3-CD)PYRENE.....	LO.00003		MG/L
15:	391 /BENZO(A)ANTHRACENE.....	LO.00002		MG/L
16:	646 /ACENAPHTHENE	LO.0002		MG/L
17:	647 /ACENAPHTHYLENE	LO.0005		MG/L
18:	648 /DIBENZ(AH)ANTHRACENE	LO.00003		MG/L

* 870A046 - OUTSIDE AGENCIES STATUS AS OF SEP 18, 1987 *

REGISTERED ON: JUL 2, 1987, BY :CHENLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 264/TECH SERV. - TOXIC CHEM, WATER POLLUTION

SAMPLING BEGAN, DATE: 29/ 6/87 (JUN 29, 1987), TIME: 800, FREQ: 1

SAMPLING ENDED, DATE: 29/ 6/87 (JUN 29, 1987), TIME: 800

DEPTH: .00 METERS, TIDE:

NARRATIVE: SALMON RIVER; NO TIDE INDICATION GIVEN.
LOCATION # 1.

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	282 /FLUORENE.....	L.0001		MG/L
2:	284 /PHENANTHRENE.....	LO.0001		MG/L
3:	285 /PYRENE.....	LO.00008		MG/L
4:	286 /NAPHTHALENE.....	LO.0002		MG/L
5:	294 /TRIPHENYLENE.....	LO.0001		MG/L
6:	295 /FLUORANTHENE.....	L.00003		MG/L
7:	297 /ANTHRACENE.....	LO.0005		MG/L
8:	298 /BENZO(GHI)PERYLENE.....	LO.00005		MG/L
9:	299 /BENZO(A)PYRENE.....	L.00001		MG/L
10:	300 /BENZO(E)PYRENE.....	LO.00006		MG/L
11:	301 /CHRYSENE.....	L.00008		MG/L
12:	302 /BENZO(K)FLUORANTHENE.....	LO.000003		MG/L
13:	303 /BENZO(B)FLUORANTHENE.....	LO.00001		MG/L
14:	304 /INDENO(1,2,3-CD)PYRENE.....	LD.00003		MG/L
15:	391 /BENZO(A)ANTHRACENE.....	LO.00002		MG/L
16:	646 /ACENAPHTHENE	LO.0002		MG/L
17:	647 /ACENAPHTHYLENE	LO.0005		MG/L
18:	648 /DIBENZ(AH)ANTHRACENE	LO.00003		MG/L

* 870A047 - OUTSIDE AGENCIES

STATUS AS OF SEP 18, 1987 *

REGISTERED ON: JUL 2, 1987, BY :CHEMLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 264/TECH SERV. - TOXIC CHEM,WATER POLLUTION

SAMPLING BEGAN, DATE: 29/ 6/87 (JUN 29, 1987), TIME: 800, FREQ: 1

SAMPLING ENDED, DATE: 29/ 6/87 (JUN 29, 1987), TIME: 800

DEPTH: .00 METERS, TIDE:

NARRATIVE: SALKON RIVER; LOW,LOW TIDE.

LOCATION # 4.

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	282 /FLUORENE.....		L0.0001	MG/L
2:	284 /PHENANTHRENE.....		L0.0001	MG/L
3:	285 /PYRENE.....		L0.00008	MG/L
4:	286 /NAPHTHALENE.....		L0.0002	MG/L
5:	294 /TRIPHENYLENE.....		L0.0001	MG/L
6:	295 /FLUORANTHENE.....		L0.00003	MG/L
7:	297 /ANTHRACENE.....		L0.0005	MG/L
8:	298 /BENZO(GHI)PERYLENE.....		L0.00005	MG/L
9:	299 /BENZO(A)PYRENE.....		L0.00001	MG/L
10:	300 /BENZO(E)PYRENE.....		L0.00006	MG/L
11:	301 /CHRYSENE.....		L0.00008	MG/L
12:	302 /BENZO(K)FLUORANTHENE.....		L0.000003	MG/L
13:	303 /BENZO(B)FLUORANTHENE.....		L0.00001	MG/L
14:	304 /INDENO(1,2,3-CD)PYRENE.....		L0.00003	MG/L
15:	391 /BENZO(A)ANTHRACENE.....		L0.00002	MG/L
16:	646 /ACENAPHTHENE		L0.0002	MG/L
17:	647 /ACENAPHTHYLENE		L0.0005	MG/L
18:	648 /DIBENZ(AH)ANTHRACENE		L0.00003	MG/L

* 870A048 - OUTSIDE AGENCIES STATUS AS OF SEP 18, 1987 *

REGISTERED ON: JUL 2, 1987, BY :CHEMLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 264/TECH SERV. - TOXIC CHEM, WATER POLLUTION

SAMPLING BEGAN, DATE: 29/ 6/87 (JUN 29, 1987), TIME: 800, FREQ: 1

SAMPLING ENDED, DATE: 29/ 6/87 (JUN 29, 1987), TIME: 800

DEPTH: .00 METERS, TIDE:

NARRATIVE: SALMON RIVER; HIGH TIDE.

LOCATION # 4C.

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	282 /FLUORENE.....	L0.0001		MG/L
2:	284 /PHENANTHRENE.....	L0.0001		MG/L
3:	285 /PYRENE.....	L0.00008		MG/L
4:	286 /NAPHTHALENE.....	L0.0002		MG/L
5:	294 /TRIPHENYLENE.....	L0.0001		MG/L
6:	295 /FLUORANTHENE.....	L0.00003		MG/L
7:	297 /ANTHRACENE.....	L0.0005		MG/L
8:	298 /BENZO(GHI)PERYLENE.....	L0.00005		MG/L
9:	299 /BENZO(A)PYRENE.....	L0.00001		MG/L
10:	300 /BENZO(E)PYRENE.....	L0.00006		MG/L
11:	301 /CHRYSENE.....	L0.00008		MG/L
12:	302 /BENZO(K)FLUORANTHENE.....	L0.000003		MG/L
13:	303 /BENZO(B)FLUORANTHENE.....	L0.00001		MG/L
14:	304 /INDENO(1,2,3-CD)PYRENE.....	L0.00003		MG/L
15:	391 /BENZO(A)ANTHRACENE.....	L0.00002		MG/L
16:	646 /ACENAPHTHENE	L0.0002		MG/L
17:	647 /ACENAPHTHYLENE	L0.0005		MG/L
18:	648 /DIBENZ(AH)ANTHRACENE	L0.00003		MG/L

* 870A049 - OUTSIDE AGENCIES STATUS AS OF SEP 18, 1987 *

REGISTERED ON: JUL 2, 1987, BY :CHEMLAB

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 264/TECH SEKV. - TOXIC CHEM, WATER POLLUTION

SAMPLING BEGAN, DATE: 29/ 6/87 (JUN 29, 1987), TIME: 800, FREQ: 1

SAMPLING ENDED, DATE: 29/ 6/87 (JUN 29, 1987), TIME: 800

DEPTH: .00 METERS, TIDE:

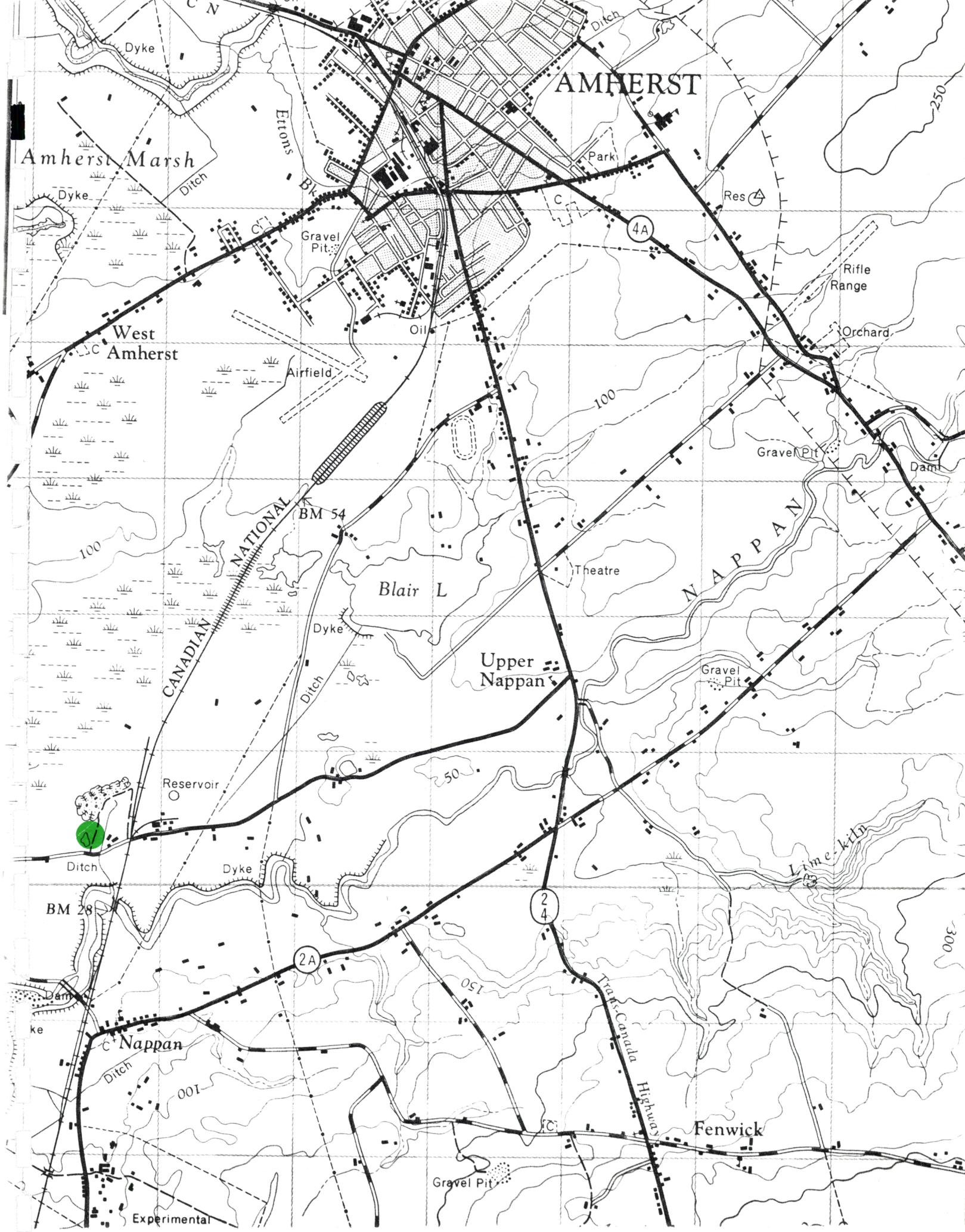
NARRATIVE: MINAS BASIN; NO TIDE INDICATION GIVEN.

LOCATION # 5.

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	282 /FLUORENE.....	LO.0001		MG/L
2:	284 /PHENANTHRENE.....	LO.0001		MG/L
3:	285 /PYRENE.....	LO.00008		MG/L
4:	286 /NAPHTHALENE.....	LO.0002		MG/L
5:	294 /TRIPHENYLENE.....	LO.0001		MG/L
6:	295 /FLUORANTHENE.....	LO.00003		MG/L
7:	297 /ANTHRACENE.....	LO.0005		MG/L
8:	298 /BENZO(GHI)PERYLENE.....	LO.00005		MG/L
9:	299 /BENZO(A)PYRENE.....	LO.00001		MG/L
10:	300 /BENZO(E)PYRENE.....	LO.00006		MG/L
11:	301 /CHRYSENE.....	LO.00008		MG/L
12:	302 /BENZO(K)FLUORANTHENE.....	LO.000003		MG/L
13:	303 /BENZO(B)FLUORANTHENE.....	LO.00001		MG/L
14:	304 /INDENO(1,2,3-CD)PYRENE.....	LO.00003		MG/L
15:	391 /BENZO(A)ANTHRACENE.....	LO.00002		MG/L
16:	646 /ACENAPHTHENE	LO.0002		MG/L
17:	647 /ACENAPHTHYLENE	LO.0005		MG/L
18:	648 /DIBENZ(AH)ANTHRACENE	LO.00003		MG/L

S I F T O S A L T



AMHERST

Amherst Marsh

West Amherst

Blair L

Upper Nappan

NAPPAN

Fenwick

CANADIAN NATIONAL

4A

24

2A

Trans-Canada Highway

Reservoir

Park

Res

Rifle Range

Orchard

Gravel Pit

Dam

Theatre

Gravel Pit

100

100

50

150

100

300

250

Dyke

Dyke

Etions Bk

Ditch

Gravel Pit

Oil

Airfield

BM 54

Dyke

Ditch

Dyke

Ditch

BM 28

Dyke

Ditch

ke

Experimental

Gravel Pit

Lime-killy

A. MacKinnon, Head
Oil and Chemical Waste Section
Air & Water Branch

J. Young, Project Biologist
Aquatic Toxicology Section
Laboratory Division
Air & Water Branch

SECURITY - CLASSIFICATION - DE SECURITE
OUR FILE / NOTRE REFERENCE 4705-37/D99-11
YOUR FILE / VOTRE REFERENCE
DATE 4 Aug 1987

SUBJECT
OBJET

BIOASSAY RESULTS - DOMTAR LTD. (SIFTO SALT DIVISION), NAPPAN, N. S.

On 7 July 1987, P. McLeod of NSDOE collected a sample of the final effluent from the Sifto Salt Plant in Nappan, Cumberland Co., N. S. The salinity of the sample was approximately 43 ppt. On 9 July 1987 two 96-hour static bioassays (one with rainbow trout and one with stickleback) were started on the sample. The effluent (100%) was lethal to both fish species yielding LT50s of 5.2 and 15 hours, respectively. The LC50 for rainbow trout was 56.6%.

A copy of the Bioassay Report Forms are attached which provide additional test details.

Kenneth G. Doe for

J. Young

JY/ldl

Attachment (2)

cc: H. Samant

K. Doe

D. Vaughan

J. Turner, NSDOE

REGISTERED ON: JUL 8, 1987, BY :NS

LOCATOR: DOMSIF01/DOMTAR CHEMICALS SIFTO SALT
 FINAL EFFLUENT

PROV: NS

PROJECT CODE: 265/LAB SUPPORT - PREV & CONTR WATER POLL

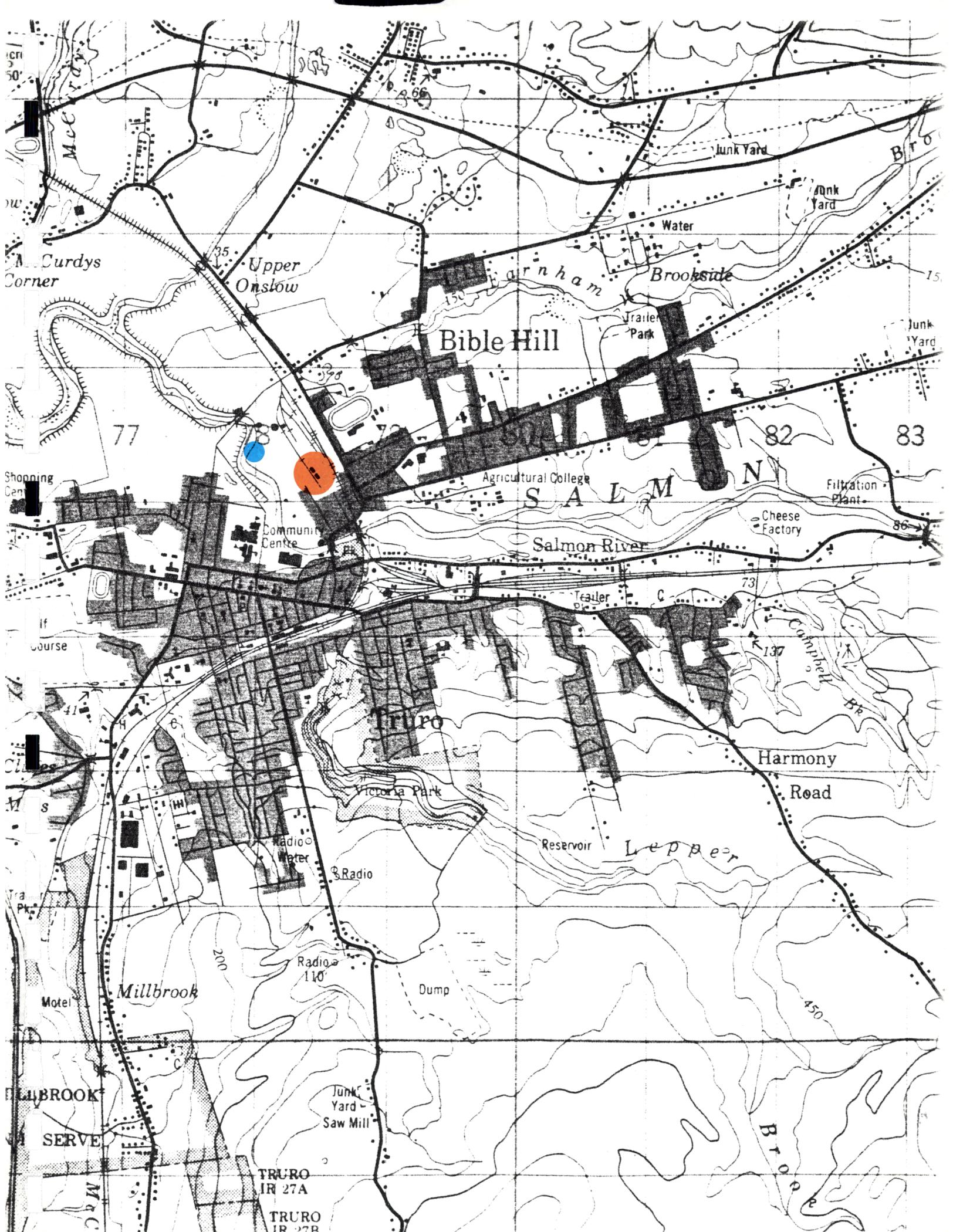
SAMPLING BEGAN, DATE: 7/ 7/87 (JUL 7, 1987), TIME: 1200, FREQ: 1
 SAMPLING ENDED, DATE: 7/ 7/87 (JUL 7, 1987), TIME: 1200

DEPTH: .00 METERS, TIDE:
 NARRATIVE: OUTFALL TO SETTLING POND

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001 /PH.....	8.0	
2: 006 /CONDUCTIVITY.....	9.477	MMHO/CM
3: 018 /SOLIDS, TOTAL (TS).....	25400.	MG/L
4: 020 /SUSPENDED SOLIDS (SS).....	400.	MG/L
5: 035 /CALCIUM (TOTAL).....	1270.	MG/L
6: 046 /CADMIUM (TOTAL).....	L.01	MG/L
7: 047 /CHROMIUM (TOTAL).....	L.01	MG/L
8: 048 /COPPER (TOTAL).....	.25	MG/L
9: 049 /IRON (TOTAL).....	2.39	MG/L
10: 051 /LEAD (TOTAL).....	.03	MG/L
11: 054 /ZINC (TOTAL).....	.03	MG/L
12: 161 /CHLORIDE.....	2000.	PPM
13: 300 /DISSAY	DATE	

WOOD PRESERVING DIVISION



50'

McC

Curdys Corner

35

Upper Onslow

Bible Hill

Agricultural College

Salmon River

TRURO

Victoria Park

Harmony Road

Reservoir Lepper

Shopping Cen

Community Centre

Filtration Plant

Cheese Factory

if course

Radio Water

Radio

Radio 110'

Dump

Junk Yard

Saw Mill

Motel

Millbrook

MILLBROOK

SERVE

TRURO IR 27A

TRURO IR 27B

Junk Yard

Junk Yard

Brookside

Trailer Park

Junk Yard

77

82

83

SALMON

86

73

Cambell

137

Road

450

Brook

REGISTERED ON: JUL 29, 1987, BY :NS

LOCATOR: DOMTRU01/DOMTAR CHEMICALS WOOD PRESERVING DIV
FINAL EFFLUENT TO RIVER PROV: NS
PROJECT CODE: 265/LAB SUPPORT - PREV & CONTR WATER POLL

SAMPLING BEGAN, DATE: 28/ 7/87 (JUL 28, 1987), TIME: 1100, FREQ: 5
SAMPLING ENDED, DATE: 28/ 7/87 (JUL 28, 1987), TIME: 1500

DEPTH: .00 METERS, TIDE:
NARRATIVE: SEND COPY TO PENNY

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE	UNITS
1: 001F/PH.....	8.7	
2: 012 /PHENOLS.....	L0.002	MG/L
3: 016 /CHEMICAL OXYGEN DEMAND (COD)..	L40.	MG/L
4: 029 /CYANIDE (CN).....	0.65	MG/L
5: 157 /PENTACHLOROPHENOL.....	0.00015	MG/L
6: 158 /FLOW.....	43500.	IMP G/DAY
7: 172 /2,3,5,6-TETRACHLOROPHENOL.....	0.00004	MG/L
8: 500 /BIOASSAY	"DONE"	

REGISTERED ON: SEP 22, 1987, BY :BOB G

LOCATOR: DOMTRU01/DOMTAR CHEMICALS WOOD PRESERVING DIV
 FINAL EFFLUENT TO RIVER

PROV: NS

PROJECT CODE: 23//ENV. CONTROL WOOD PRESERVING P&P

SAMPLING BEGAN: DATE: 16/ 9/87 (SEP 16, 1987); TIME: 1100, FREQ: 10
 SAMPLING ENDED: DATE: 17/ 9/87 (SEP 17, 1987); TIME: 1000

DEPTH: .00 METERS; TIDE:

NARRATIVE: SAMPLE TAKEN AT MOUTH OF CULVERT.
 COMBINED BIBLE HILL-DOMTAR EFFLUENT.

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	7.0	
2: 001F/PH.....	6.9	
3: 012 /PHENOLS.....	0.006	MG/L
4: 013 /OIL & GREASE (PET. ETHER).....	9.	MG/L
5: 016 /CHEMICAL OXYGEN DEMAND (COD)..	L40.	MG/L
6: 020 /SUSPENDED SOLIDS (SS).....	55.	MG/L
7: 022 /MAGNESIUM (TOTAL).....	2.74	MG/L
8: 029 /CYANIDE (CN).....	0.08	MG/L
9: 036 /CALCIUM (TOTAL).....	5.61	MG/L
10: 044 /ARSENIC (TOTAL).....	L.05	MG/L
11: 046 /CADMIUM (TOTAL).....	L.01	MG/L
12: 047 /CHROMIUM (TOTAL).....	.02	MG/L
13: 048 /COPPER (TOTAL).....	0.01	MG/L
14: 049 /IRON (TOTAL).....	1.11	MG/L
15: 051 /LEAD (TOTAL).....	L.02	MG/L
16: 054 /ZINC (TOTAL).....	.03	MG/L
17: 157 /PENTACHLOROPHENOL.....	0.023	MG/L
18: 159 /NICKEL (TOTAL).....	.01	MG/L
19: 160 /MANGANESE (TOTAL).....	.20	MG/L
20: 162 /ALUMINUM (TOTAL).....	.30	MG/L
21: 172 /2,3,5,6-TETRACHLOROPHENOL.....	0.0015	MG/L
22: 202 /VANADIUM	L.01	MG/L
23: 215 /HEXACHLORO BENZENE	L0.00001	MG/L
24: 216 /PENTACHLORO BENZENE	L0.00005	MG/L
25: 217 /1,2,4,5 - TETRACHLORO BENZENE..	L0.0002	MG/L
26: 218 /1,2,3,5 - TETRACHLORO BENZENE..	"SEE 1,2,4,5 TETRA--	MG/L
27: 220 /1,3,5 - TRICHLORO BENZENE	L0.0002	MG/L
28: 221 /1,2,4 - TRICHLORO BENZENE	L0.0003	MG/L
29: 222 /1,2,3 - TRICHLORO BENZENE	L0.0002	MG/L
30: 223 /ORTHO - DICHLORO BENZENE	L0.002	MG/L
31: 224 /META - DICHLORO BENZENE	L0.001	MG/L
32: 225 /PARA - DICHLORO BENZENE	L0.003	MG/L
33: 235 /2,3,4,6 - TETRACHLOROPHENOL ..	"SEE 2,3,5,6 TCP	MG/L
34: 236 /2,3,4,5 - TETRACHLOROPHENOL ..	L0.00062	MG/L
35: 688 /2,4,6 TRICHLOROPHENOL	L0.00023	MG/L
36: 689 /TETRACHLOROGUAIACOL	0.00007	MG/L
37: 690 /TETRACHLOROCATECHOL	"	MG/L

TO: Garth L. Trider, Head
Food Processing, Steel & Textile Industries
Air & Water Branch

FROM: J. David A. Vaughan
Aquatic Toxicology Section
Laboratory Division
Air & Water Branch

SECURITY - CLASSIFICATION - DE SECURITE
OUR FILE/NOTRE REFERENCE 4705-37/D99-14
YOUR FILE/VOTRE REFERENCE
DATE 21 September 1987

SUBJECT: BIOASSAY RESULTS - DOMTAR, TRURO
OBJET

On July 28, 1987, Penny McLeod of NSDOE collected a 4-hour composite sample of final effluent from the Domtar Wood Preserving Plant in Truro, Nova Scotia.

On July 30, 1987, a 96-hour acute lethal static bioassay was begun on this sample, using rainbow trout fingerling of mean weight 3.8 ± 1.5 g as the test organism.

The effluent was non-acutely lethal to the test fish.

A copy of the Bioassay Report is attached which provides additional test details.

J. David A. Vaughan
J. David A. Vaughan

JDAV/ld1

Attachment (1)

- cc: H. Samant
- K. Doe
- R. Parker
- J. Turner, NSDOE
- P. McLeod

E

ENHEAT LTD.

* 87NS024 - NOVA SCOTIA STATUS AS OF JAN 18, 1988 *

REGISTERED ON: NOV 19, 1987; BY :NS

LOCATOR: ENHEAT01/ENHEAT LTD
FINAL EFFLUENT

PROV: NS

PROJECT CODE: 265/LAB SUPPORT - PREV & CONTR WATER POLL

SAMPLING BEGAN, DATE: 17/11/87 (NOV 17, 1987), TIME: 1030, FREQ: 50
SAMPLING ENDED, DATE: 17/11/87 (NOV 17, 1987), TIME: 1400

DEPTH: .00 METERS, TIDE:

NARRATIVE: SEND COPY TO PENNY MCLEOD

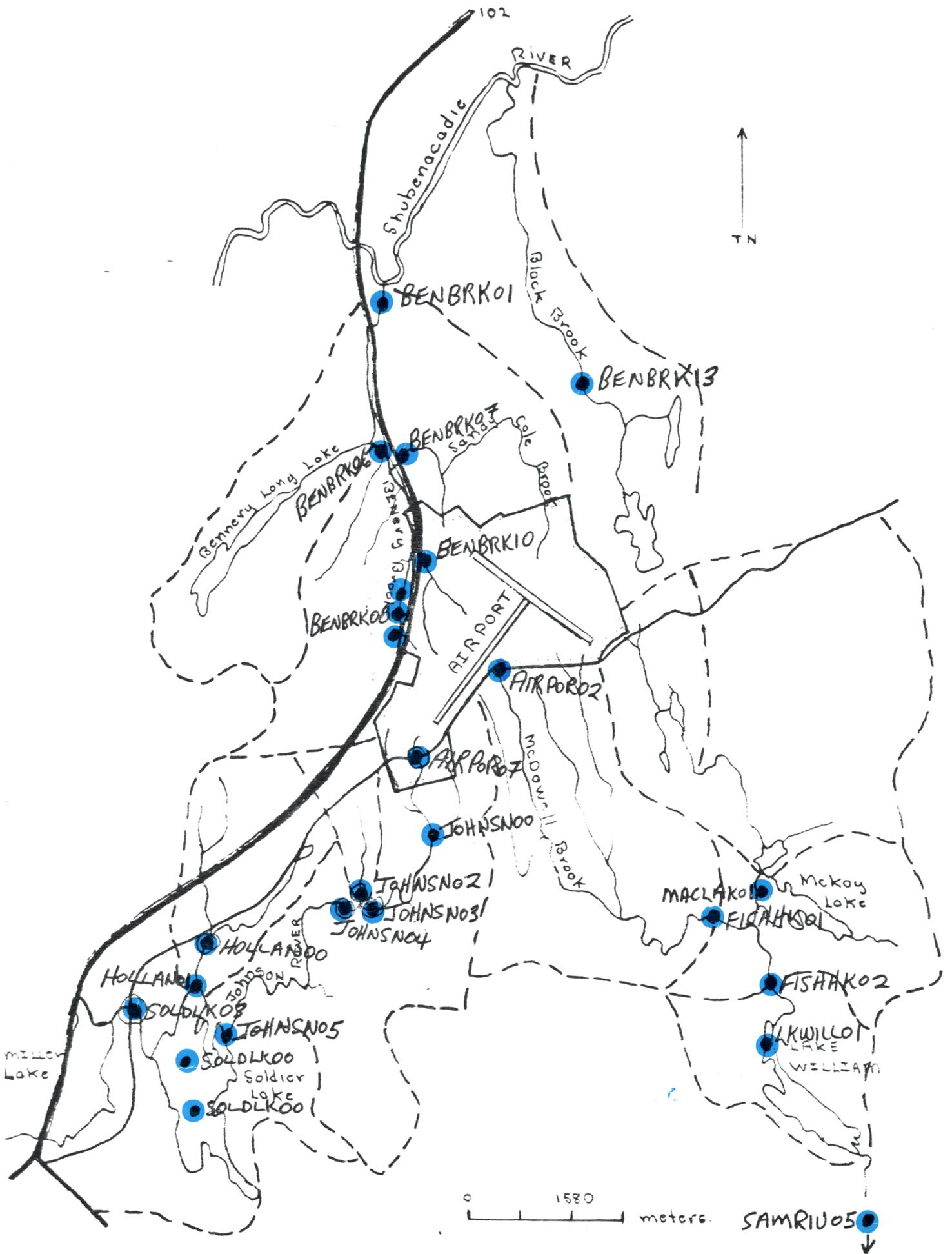
---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001F/PH.....	B.	
2: 018 /SOLIDS, TOTAL (TS).....	300.	MG/L
3: 020 /SUSPENDED SOLIDS (SS).....	5.	MG/L
4: 046 /CADMIUM (TOTAL).....	L.01	MG/L
5: 047 /CHROMIUM (TOTAL).....	.72	MG/L
6: 048 /COPPER (TOTAL).....	0.01	MG/L
7: 049 /IRON (TOTAL).....	.23	MG/L
8: 051 /LEAD (TOTAL).....	.02	MG/L
9: 054 /ZINC (TOTAL).....	.04	MG/L



HALIFAX INTERNATIONAL AIRPORT

- AIRPORT RUNOFF
- BENNERY BROOK
- BLACK BROOK
- FISH HAWK NEST RIVER
- HOLLAND BROOK
- McDOWELL BROOK
- JOHNSON RIVER
- SALMON RIVER
- SOUTH END OF RUNWAY
- SANDY COLE BROOK



SAMRIU05

* 87JM001 - JOHN NACHELL STATUS AS OF JAN 23, 1987 *

REGISTERED ON: JAN 15, 1987; BY :BOB G

LOCATOR: AIRPORTS/HALIFAX INTERNATIONAL AIRPORT
EFFL.2ND STAGE TREATMENT

PROV: NS

NORMAL ANALYSIS: 1,22,44,46,48,49,51,54,128,159,160,161,1
62,237

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN; DATE: 13/ 1/87 (JAN 13, 1987); TIME: 1400; FREQ: 1
SAMPLING ENDED; DATE: 13/ 1/87 (JAN 13, 1987); TIME: 1400

DEPTH: .00 METERS, TIDE:

NARRATIVE: TREATMENT PLANT NOT IN OPERATION.
LIME EXPENDED.

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001F/PH.....	5.4	
2: 005 /HARDNESS.....	1700.	MG/L
3: 022 /MAGNESIUM.....	40.9	MG/L
4: 036 /CALCIUM.....	627.	MG/L
5: 044 /ARSENIC (TOTAL).....	1.05	MG/L
6: 046 /CADMIUM (TOTAL).....	1.01	MG/L
7: 048 /COPPER (TOTAL).....	.04	MG/L
8: 049 /IRON (TOTAL).....	6.26	MG/L
9: 051 /LEAD (TOTAL).....	1.02	MG/L
10: 054 /ZINC (TOTAL).....	.11	MG/L
11: 159 /NICKEL (TOTAL).....	.22	MG/L
12: 160 /MANGANESE (TOTAL).....	2.07	MG/L
13: 162 /ALUMINUM (TOTAL).....	3.16	MG/L
14: 202 /VANADIUM	1.01	MG/L
15: 237 /COBALT (CO) .....	.10	MG/L

* 87JUM002 - JOHN MACHELL STATUS AS OF JAN 23, 1987 *

REGISTERED ON: JAN 15, 1987; BY :BOB G

LOCATOR: AIRFOR02/HALIFAX INTERNATIONAL AIRPORT

RAIN DSCH AT OLD GUYSR TO SALMON R

FROM: NS

NORMAL ANALYSIS: 1,22,44,46,48,49,51,54,128,159,160,161
162,237

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN: DATE: 13/ 1/87 (JAN 13, 1987); TIME: 1430; FREQ: 1
SAMPLING ENDED: DATE: 13/ 1/87 (JAN 13, 1987); TIME: 1430

DEPTH: .00 METERS; TIDE:

NARRATIVE: TREATMENT PLANT NOT IN OPERATION.

LIME EXPENDED.

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE	UNITS
1: 001F/PH.....	5.3	
2: 005 /HARDNESS.....	750.	MG/L
3: 022 /MAGNESIUM.....	16.6	MG/L
4: 036 /CALCIUM.....	272.	MG/L
5: 044 /ARSENIC (TOTAL).....	1.05	MG/L
6: 046 /CADMIUM (TOTAL).....	1.01	MG/L
7: 048 /COPPER (TOTAL).....	.04	MG/L
8: 049 /IRON (TOTAL).....	6.29	MG/L
9: 051 /LEAD (TOTAL).....	1.02	MG/L
10: 054 /ZINC (TOTAL).....	.15	MG/L
11: 159 /NICKEL (TOTAL).....	.16	MG/L
12: 160 /MANGANESE (TOTAL).....	1.13	MG/L
13: 162 /ALUMINUM (TOTAL).....	3.71	MG/L
14: 202 /VANADIUM	1.01	MG/L
15: 237 /COBALT (CO)	1.07	MG/L

* 87JM003 - JOHN MACHELL STATUS AS OF JUL 21, 1987 *

REGISTERED ON: APR 8, 1987, BY :IAN M

LOCATOR: AIRPOR07/HALIFAX INTERNATIONAL AIRPORT
DISCH AT END OF RUNWAY TO JOHNSON RIVER PROV: NS

NORMAL ANALYSIS: 1,6,7,22,30,35,36,44,46,48,49,51,54,
128,159,161,162,237,259

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 2/ 4/87 (APR 2, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 2/ 4/87 (APR 2, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:
NARRATIVE: DRIZZLE FOG,SOME RAIN

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	3.7		
2:	006 /CONDUCTIVITY.....	0.302		MMHO/CM
3:	007 /COLOR.....	5.		WAVE LNG.
4:	022 /MAGNESIUM (TOTAL).....	3.20		MG/L
5:	023 /CARBON, TOTAL ORGANIC (TOC)...	1.9		MG/L
6:	030 /SULPHATE (SO4).....	83.		MG/L
7:	035 /SODIUM.....	0.42		MG/L
8:	036 /CALCIUM (TOTAL).....	4.38		MG/L
9:	044 /ARSENIC (TOTAL).....	10.05		MG/L
10:	048 /COPPER (TOTAL).....	0.04		MG/L
11:	049 /IRON (TOTAL).....	6.29		MG/L
12:	054 /ZINC (TOTAL).....	0.06		MG/L
13:	160 /MANGANESE (TOTAL).....	1.74		MG/L
14:	161 /CHLORIDE.....	2.2		PPM
15:	162 /ALUMINUM (TOTAL).....	5.35		MG/L
16:	259 /POTASSIUM.....	0.29		MG/L

* 87JM004 - JOHN MACHELL STATUS AS OF JUL 21, 1987 *

REGISTERED ON: APR 8, 1987, BY :IAN M

LOCATOR: BENBRK13/BENNEREY BROOK
BLACK BRK. OLDHAM

PROV: NS

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN: DATE: 2/ 4/87 (APR 2, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED: DATE: 2/ 4/87 (APR 2, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:
NARRATIVE: DRIZZLE FOG,SOME RAIN

----- SAMPLE ANALYSIS -----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	4.4		
2:	006 /CONDUCTIVITY.....	0.046		MMHO/CM
3:	007 /COLOR.....	20.		WAVE LNG.
4:	022 /MAGNESIUM (TOTAL).....	0.41		MG/L
5:	023 /CARBON, TOTAL ORGANIC (TOC)...	5.3		MG/L
6:	030 /SULPHATE (SO4).....	10.		MG/L
7:	035 /SODIUM.....	0.80		MG/L
8:	036 /CALCIUM (TOTAL).....	1.10		MG/L
9:	044 /ARSENIC (TOTAL).....	10.05		MG/L
10:	048 /COPPER (TOTAL).....	10.01		MG/L
11:	049 /IRON (TOTAL).....	0.50		MG/L
12:	054 /ZINC (TOTAL).....	0.02		MG/L
13:	160 /MANGANESE (TOTAL).....	0.15		MG/L
14:	161 /CHLORIDE.....	3.1		PPM
15:	162 /ALUMINUM (TOTAL).....	0.30		MG/L
16:	259 /POTASSIUM.....	0.20		MG/L

* 87JM005 - JOHN MACHELL STATUS AS OF JUL 21, 1987 *

REGISTERED ON: APR 8, 1987, BY :IAN M

LOCATOR: BENBRK10/BENNERY BROOK

BENNERY BRK., 102 UPPERMOST

PROV: NS

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 2/ 4/87 (APR 2, 1987), TIME: 1000, FREQ: 1

SAMPLING ENDED, DATE: 2/ 4/87 (APR 2, 1987), TIME: 1000

DEPTH: .00 METERS; TIDE:

NARRATIVE: DRIZZLE FOG,SOME RAIN

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	6.3	
2: 006 /CONDUCTIVITY.....	0.279	MMHO/CM
3: 007 /COLOR.....	5.	WAVE LNG.
4: 022 /MAGNESIUM (TOTAL).....	2.08	MG/L
5: 023 /CARBON, TOTAL ORGANIC (TOC)...	2.4	MG/L
6: 030 /SULPHATE (SO4).....	31.	MG/L
7: 035 /SODIUM.....	17.5	MG/L
8: 036 /CALCIUM (TOTAL).....	11.1	MG/L
9: 044 /ARSENIC (TOTAL).....	LO.05	MG/L
10: 048 /COPPER (TOTAL).....	0.02	MG/L
11: 049 /IRON (TOTAL).....	1.71	MG/L
12: 054 /ZINC (TOTAL).....	0.03	MG/L
13: 160 /MANGANESE (TOTAL).....	0.32	MG/L
14: 161 /CHLORIDE.....	50.	PPM
15: 162 /ALUMINUM (TOTAL).....	1.08	MG/L
16: 259 /POTASSIUM.....	0.62	MG/L

* 87JM006 - JOHN MACHELL STATUS AS OF JUL 21, 1987 *

REGISTERED ON: APR 8, 1987, BY :IAN M

LOCATOR: BENBRK01/BENNERY BROOK
BENNERY BRK OLDMHAM BR, PROV: NS
PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 2/ 4/87 (APR 2, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 2/ 4/87 (APR 2, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:
NARRATIVE: DRIZZLE FOG,SOME RAIN

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	..... VALUE	UNITS
1:	001 /PH.....	5.8	
2:	006 /CONDUCTIVITY.....	0.074	MMHO/CM
3:	007 /COLOR.....	5.	WAVE LNG.
4:	022 /MAGNESIUM (TOTAL).....	1.03	MG/L
5:	023 /CARBON, TOTAL ORGANIC (TOC)...	3.4	MG/L
6:	030 /SULPHATE (SO4).....	7.7	MG/L
7:	035 /SODIUM.....	6.34	MG/L
8:	036 /CALCIUM (TOTAL).....	7.67	MG/L
9:	044 /ARSENIC (TOTAL).....	0.08	MG/L
10:	048 /COPPER (TOTAL).....	LO.01	MG/L
11:	049 /IRON (TOTAL).....	0.99	MG/L
12:	054 /ZINC (TOTAL).....	0.02	MG/L
13:	160 /MANGANESE (TOTAL).....	0.25	MG/L
14:	161 /CHLORIDE.....	12.	PPM
15:	162 /ALUMINUM (TOTAL).....	0.83	MG/L
16:	259 /POTASSIUM.....	0.34	MG/L

* 87JM007 - JOHN MACHELL STATUS AS OF JUL 21, 1987 *

REGISTERED ON: APR 8, 1987, BY :IAN M

LOCATOR: AIRPOR02/HALIFAX INTERNATIONAL AIRPORT

MAIN DSCH AT OLD GUYSB TO SALMON R

PROV: NS

NORMAL ANALYSIS: 1,22,44,46,48,49,51,54,128,159,160,161
162,237

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 2/ 4/87 (APR 2, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 2/ 4/87 (APR 2, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE: DRIZZLE FOG,SOME RAIN

----- SAMPLE ANALYSIS -----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	3.9		
2:	006 /CONDUCTIVITY.....	0.660		MMHO/CM
3:	007 /COLOR.....	L5.		WAVE LNG.
4:	022 /MAGNESIUM (TOTAL).....	5.21		MG/L
5:	023 /CARBON, TOTAL ORGANIC (TOC)...	2.1		MG/L
6:	030 /SULPHATE (SO4).....	166.		MG/L
7:	035 /SODIUM.....	16.5		MG/L
8:	036 /CALCIUM (TOTAL).....	27.1		MG/L
9:	044 /ARSENIC (TOTAL).....	0.11		MG/L
10:	048 /COPPER (TOTAL).....	0.13		MG/L
11:	049 /IRON (TOTAL).....	23.3		MG/L
12:	054 /ZINC (TOTAL).....	0.31		MG/L
13:	160 /MANGANESE (TOTAL).....	0.97		MG/L
14:	161 /CHLORIDE.....	40.		PPM
15:	162 /ALUMINUM (TOTAL).....	9.19		MG/L
16:	259 /POTASSIUM.....	0.83		MG/L

* 87JM008 - JOHN NACHELL STATUS AS OF JUL 21, 1987 *

REGISTERED ON: APR 8, 1987, BY :IAN M

LOCATOR: AIRPOR02/HALIFAX INTERNATIONAL AIRPORT
MAIN DISCH AT OLD GUYSB TO SALMON R PROV: NS

NORMAL ANALYSIS: 1,22,44,46,48,49,51,54,128,159,160,161
162,237

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 8/ 4/87 (APR 8, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 8/ 4/87 (APR 8, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:
NARRATIVE: DRIZZLE FOG,SOME RAIN

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	4.0	
2: 006 /CONDUCTIVITY.....	1.96	MMHO/CM
3: 007 /COLOR.....	5.	WAVE LING.
4: 022 /MAGNESIUM (TOTAL).....	17.6	MG/L
5: 023 /CARBON, TOTAL ORGANIC (TOC)...	3.3	MG/L
6: 030 /SULPHATE (SO4).....	646.	MG/L
7: 035 /SODIUM.....	62.2	MG/L
8: 036 /CALCIUM (TOTAL).....	83.5	MG/L
9: 044 /ARSENIC (TOTAL).....	0.20	MG/L
10: 048 /COPPER (TOTAL).....	0.43	MG/L
11: 049 /IRON (TOTAL).....	109.	MG/L
12: 054 /ZINC (TOTAL).....	1.02	MG/L
13: 160 /MANGANESE (TOTAL).....	2.11	MG/L
14: 161 /CHLORIDE.....	80.	PPM
15: 162 /ALUMINUM (TOTAL).....	32.7	MG/L
16: 259 /POTASSIUM.....	1.47	MG/L

* 87JM009 - JOHN MACHELL STATUS AS OF JUL 21, 1987 *

REGISTERED ON: APR 8, 1987, BY :IAN M

LOCATOR: AIRFOR07/HALIFAX INTERNATIONAL AIRPORT

DISCH AT END OF RUNWAY TO JOHNSON RIVER PROV: NS

NORMAL ANALYSIS: 1,6,7,22,30,35,36,44,46,48,49,51,54,
128,159,161,162,237,259

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 8/ 4/87 (APR 8, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 8/ 4/87 (APR 8, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:
NARRATIVE: DRIZZLE FOG,SOME RAIN

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	3.6	
2: 006 /CONDUCTIVITY.....	0.507	MMHO/CM
3: 007 /COLOR.....	15.0	WAVE LENG.
4: 022 /MAGNESIUM (TOTAL).....	6.89	MG/L
5: 023 /CARBON, TOTAL ORGANIC (TOC)...	1.2	MG/L
6: 030 /SULPHATE (SO4).....	150.	MG/L
7: 035 /SODIUM.....	1.77	MG/L
8: 036 /CALCIUM (TOTAL).....	11.9	MG/L
9: 044 /ARSENIC (TOTAL).....	10.05	MG/L
10: 048 /COPPER (TOTAL).....	0.07	MG/L
11: 049 /IRON (TOTAL).....	14.0	MG/L
12: 054 /ZINC (TOTAL).....	0.11	MG/L
13: 160 /MANGANESE (TOTAL).....	4.10	MG/L
14: 161 /CHLORIDE.....	2.6	PPM
15: 162 /ALUMINUM (TOTAL).....	8.78	MG/L
16: 259 /POTASSIUM.....	1.00	MG/L

* 87JM010 - JOHN MACHELL STATUS AS OF JUL 21, 1987 *

REGISTERED ON: APR 8, 1987, BY :IAN M

LOCATOR: BENBRK10/BENNERY BROOK

BENNERY BRK., 102 UPPERMOST

PROV: NS

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 8/ 4/87 (APR 8, 1987), TIME: 1000, FREQ: 1

SAMPLING ENDED, DATE: 8/ 4/87 (APR 8, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE: DRIZZLE FOG,SOME RAIN

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001 /PH.....	6.3	
2: 006 /CONDUCTIVITY.....	0.382	MMHO/CM
3: 007 /COLOR.....	L5.	WAVE LNG.
4: 022 /MAGNESIUM (TOTAL).....	3.99	MG/L
5: 023 /CARBON, TOTAL ORGANIC (TOC)...	2.1	MG/L
6: 030 /SULPHATE (SO4).....	82.	MG/L
7: 035 /SODIUM.....	37.8	MG/L
8: 036 /CALCIUM (TOTAL).....	18.4	MG/L
9: 044 /ARSENIC (TOTAL).....	10.05	MG/L
10: 048 /COPPER (TOTAL).....	0.02	MG/L
11: 049 /IRON (TOTAL).....	2.90	MG/L
12: 054 /ZINC (TOTAL).....	0.06	MG/L
13: 160 /MANGANESE (TOTAL).....	0.53	MG/L
14: 161 /CHLORIDE.....	50.	PPM
15: 162 /ALUMINUM (TOTAL).....	2.68	MG/L
16: 259 /POTASSIUM.....	1.66	MG/L

 * 87JM011 - JOHN MACHELL STATUS AS OF JUL 21, 1987 *

REGISTERED ON: APR 8, 1987, BY :IAN M

LOCATOR: BENBRK01/BENNERY BROOK

BENNERY BRK OLDHAM BR.

PROV: NS

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 8/ 4/87 (APR 8, 1987), TIME: 1000, FREQ: 1

SAMPLING ENDED, DATE: 8/ 4/87 (APR 8, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE: DRIZZLE FOG,SOME RAIN

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	5.4		
2:	006 /CONDUCTIVITY.....	0.098		MMHO/CM
3:	007 /COLOR.....	20.		WAVE LNG.
4:	022 /MAGNESIUM (TOTAL).....	0.96		MG/L
5:	023 /CARBON, TOTAL ORGANIC (TOC)...	4.8		MG/L
6:	030 /SULPHATE (SO4).....	13.		MG/L
7:	035 /SODIUM.....	9.60		MG/L
8:	036 /CALCIUM (TOTAL).....	4.35		MG/L
9:	044 /ARSENIC (TOTAL).....	10.05		MG/L
10:	048 /COPPER (TOTAL).....	0.02		MG/L
11:	049 /IRON (TOTAL).....	0.51		MG/L
12:	054 /ZINC (TOTAL).....	0.12		MG/L
13:	160 /MANGANESE (TOTAL).....	0.20		MG/L
14:	161 /CHLORIDE.....	16.		PPM
15:	162 /ALUMINUM (TOTAL).....	0.56		MG/L
16:	259 /POTASSIUM.....	0.56		MG/L

* 87JM012 - JOHN MACHELL STATUS AS OF JUL 21, 1987 *

REGISTERED ON: APR 8, 1987, BY :IAN M

LOCATOR: BENBRK07/BENNERY BROOK

BENNERY BRK COVE ISL. STR.

PROV: NS

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 8/ 4/87 (APR 8, 1987), TIME: 1000, FREQ: 1

SAMPLING ENDED, DATE: 8/ 4/87 (APR 8, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE: DRIZZLE FOG,SOME RAIN

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001 /PH.....	5.4	
2: 006 /CONDUCTIVITY.....	0.052	MMHO/CM
3: 007 /COLOR.....	20.	WAVE LNG.
4: 022 /MAGNESIUM (TOTAL).....	0.68	MG/L
5: 023 /CARBON, TOTAL ORGANIC (TOC)...	6.2	MG/L
6: 030 /SULPHATE (SO4).....	10.	MG/L
7: 035 /SODIUM.....	3.31	MG/L
8: 036 /CALCIUM (TOTAL).....	2.76	MG/L
9: 044 /ARSENIC (TOTAL).....	LO.05	MG/L
10: 048 /COPPER (TOTAL).....	LO.01	MG/L
11: 049 /IRON (TOTAL).....	0.34	MG/L
12: 054 /ZINC (TOTAL).....	LO.01	MG/L
13: 160 /MANGANESE (TOTAL).....	0.24	MG/L
14: 161 /CHLORIDE.....	6.3	PPM
15: 162 /ALUMINUM (TOTAL).....	0.20	MG/L
16: 259 /POTASSIUM.....	0.68	MG/L

* 87JM013 - JOHN MACHELL STATUS AS OF JUL 21, 1987 *

REGISTERED ON: APR 8, 1987, BY :IAN M

LOCATOR: BENBRK13/BENNEREY BROOK
BLACK BRK. GLDHAM

PROV: NS

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 8/ 4/87 (APR 8, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 8/ 4/87 (APR 8, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:
NARRATIVE: DRIZZLE FOG,SOME RAIN

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001 /PH.....	4.9	
2: 006 /CONDUCTIVITY.....	0.038	MMHO/CM
3: 007 /COLOR.....	40.	WAVE LNG.
4: 022 /MAGNESIUM (TOTAL).....	0.41	MG/L
5: 023 /CARBON, TOTAL ORGANIC (TOC)...	6.0	MG/L
6: 030 /SULPHATE (SO4).....	7.4	MG/L
7: 035 /SODIUM.....	1.60	MG/L
8: 036 /CALCIUM (TOTAL).....	1.16	MG/L
9: 044 /ARSENIC (TOTAL).....	LO.05	MG/L
10: 048 /COPPER (TOTAL).....	LO.01	MG/L
11: 049 /IRON (TOTAL).....	0.51	MG/L
12: 054 /ZINC (TOTAL).....	0.01	MG/L
13: 160 /MANGANESE (TOTAL).....	0.07	MG/L
14: 161 /CHLORIDE.....	3.1	PPM
15: 162 /ALUMINUM (TOTAL).....	0.24	MG/L
16: 259 /POTASSIUM.....	0.36	MG/L

* 87JM014 - JOHN MACHELL STATUS AS OF JUN 13, 1988 *

REGISTERED ON: JUN 3, 1987, BY :BOB G

LOCATOR: BENBRK01/BENNERY BROOK

BENNERY BRK. AT OLIHAM RD.

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26,318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 11/ 5/87 (MAY 11, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 11/ 5/87 (MAY 11, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE:

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	006 /CONDUCTIVITY.....	0.143		MMHO/CM
2:	007 /COLOR.....	20.		WAVE LNG.
3:	022 /MAGNESIUM (TOTAL).....	1.37		MG/L
4:	023 /CARBON, TOTAL ORGANIC (TOC)...	4.8		MG/L
5:	030 /SULPHATE (SO4).....	20.		MG/L
6:	035 /SODIUM.....	15.6		MG/L
7:	036 /CALCIUM (TOTAL).....	6.21		MG/L
8:	044 /ARSENIC (TOTAL).....	L.05		MG/L
9:	048 /COPPER (TOTAL).....	L.01		MG/L
10:	049 /IRON (TOTAL).....	.45		MG/L
11:	054 /ZINC (TOTAL).....	.01		MG/L
12:	082 /ORTHO PHOSPHATE PHOSPHORUS....	0.01		MG/L
13:	084 /PHOSPHATE PHOSPHORUS TOTAL....	0.01		MG/L
14:	129 /NITROGEN, TOTAL KJELDAHL.....	1.18		MG/L
15:	160 /MANGANESE (TOTAL).....	.27		MG/L
16:	161 /CHLORIDE.....	25.		PPM
17:	162 /ALUMINUM (TOTAL).....	.42		MG/L
18:	259 /POTASSIUM.....	0.58		MG/L
19:	318 /GRAN ALKALINITY		*NOT REC'D*	UEQ/L

* 87JM015 - JOHN KACHELL STATUS AS OF JAN 13, 1988 *

REGISTERED ON: JUN 3, 1987, BY :BOB G

LOCATOR: BENBRK06/BENNERLY BROOK

BENNERLY BRK STA. 6

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 11/ 5/87 (MAY 11, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 11/ 5/87 (MAY 11, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE:

----- SAMPLE ANALYSIS -----

.....	PARAMETER .....	..... VALUE	UNITS
1:	006 /CONDUCTIVITY.....	0.137	MMHO/CM
2:	007 /COLOR.....	"610 L20"	WAVE LNG.
3:	022 /MAGNESIUM (TOTAL).....	1.36	MG/L
4:	023 /CARBON, TOTAL ORGANIC (TOC)...	5.0	MG/L
5:	030 /SULFATE (SO4).....	20.	MG/L
6:	035 /SODIUM.....	13.8	MG/L
7:	036 /CALCIUM (TOTAL).....	5.65	MG/L
8:	044 /ARSENIC (TOTAL).....	L.05	MG/L
9:	048 /COPPER (TOTAL).....	L.01	MG/L
10:	049 /IRON (TOTAL).....	.47	MG/L
11:	054 /ZINC (TOTAL).....	.01	MG/L
12:	082 /ORTHO PHOSPHATE PHOSPHORUS....	0.03	MG/L
13:	084 /PHOSPHATE PHOSPHORUS TOTAL....	0.03	MG/L
14:	129 /NITROGEN, TOTAL KJELDAHL.....	1.18	MG/L
15:	160 /MANGANESE (TOTAL).....	.26	MG/L
16:	161 /CHLORIDE.....	22.	PPM
17:	162 /ALUMINUM (TOTAL).....	.51	MG/L
18:	259 /POTASSIUM.....	0.54	MG/L

* 87JM016 - JOHN NACHELL STATUS AS OF DEC 24, 1987 *

REGISTERED ON: JUN 3, 1987, BY :BOB G

LOCATOR: BENBRK07/BENNERY BROOK

BENNERY BRK COVE ISL. STR.

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
128,318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 11/ 5/87 (MAY 11, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 11/ 5/87 (MAY 11, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:
NARRATIVE:

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	006 /CONDUCTIVITY.....	0.0699		MMHO/CM
2:	007 /COLOR.....	20.		WAVE LNG.
3:	022 /MAGNESIUM (TOTAL).....	.96		MG/L
4:	023 /CARBON, TOTAL ORGANIC (TOC)...	6.8		MG/L
5:	030 /SULPHATE (SO4).....	12.		MG/L
6:	035 /SODIUM.....	5.48		MG/L
7:	036 /CALCIUM (TOTAL).....	4.20		MG/L
8:	044 /ARSENIC (TOTAL).....	L.05		MG/L
9:	048 /COPPER (TOTAL).....	L.01		MG/L
10:	049 /IRON (TOTAL).....	.22		MG/L
11:	054 /ZINC (TOTAL).....	.01		MG/L
12:	128 /ACIDITY, TOTAL.....	4.		MG/L
13:	160 /MANGANESE (TOTAL).....	.28		MG/L
14:	161 /CHLORIDE.....	7.6		PPM
15:	162 /ALUMINUM (TOTAL).....	.31		MG/L
16:	259 /POTASSIUM.....	0.47		MG/L
17:	318 /GRAN ALKALINITY	*NOT REC'D*		UEQ/L

* 87JM017 - JOHN MACHELL STATUS AS OF OCT 23, 1987 *

REGISTERED ON: JUN 3, 1987, BY :BOB G

LOCATOR: BENBRK10/BENNERY BROOK

BENNERY BRK., 102 UPPERMOST

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN: DATE: 11/ 5/87 (MAY 11, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED: DATE: 11/ 5/87 (MAY 11, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE:

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 006 /CONDUCTIVITY.....	0.510	MMHO/CM
2: 007 /COLOR.....	5.	WAVE LNG.
3: 022 /MAGNESIUM (TOTAL).....	5.59	MG/L
4: 023 /CARBON, TOTAL ORGANIC (TOC)...	2.5	MG/L
5: 030 /SULPHATE (SO4).....	96.	MG/L
6: 035 /SODIUM.....	42.4	MG/L
7: 036 /CALCIUM (TOTAL).....	22.7	MG/L
8: 044 /ARSENIC (TOTAL).....	1.05	MG/L
9: 048 /COPPER (TOTAL).....	1.01	MG/L
10: 049 /IRON (TOTAL).....	5.44	MG/L
11: 054 /ZINC (TOTAL).....	.06	MG/L
12: 160 /MANGANESE (TOTAL).....	.88	MG/L
13: 161 /CHLORIDE.....	70.	PPM
14: 162 /ALUMINUM (TOTAL).....	1.91	MG/L
15: 259 /POTASSIUM.....	1.72	MG/L

* 87JM018 - JOHN MACHELL STATUS AS OF OCT 23, 1987 *

REGISTERED ON: JUN 3, 1987, BY :BOB G

LOCATOR: BENBRK13/BENNERY BROOK

BLACK BRK. OLDHAM

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,23,49,160,162

259,128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 11/ 5/87 (MAY 11, 1987), TIME: 1000, FREQ: 1

SAMPLING ENDED, DATE: 11/ 5/87 (MAY 11, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE:

---- SAMPLE ANALYSIS ----

.....	PARAMETER	VALUE	UNITS
1:	006 /CONDUCTIVITY.....	0.058	MMHO/CM
2:	007 /COLOR.....	30.	WAVE LNS.
3:	022 /MAGNESIUM (TOTAL).....	.67	MG/L
4:	023 /CARBON, TOTAL ORGANIC (TOC)...	8.2	MG/L
5:	030 /SULPHATE (SO4).....	14.	MG/L
6:	035 /SODIUM.....	2.22	MG/L
7:	036 /CALCIUM (TOTAL).....	2.00	MG/L
8:	044 /ARSENIC (TOTAL).....	1.05	MG/L
9:	048 /COPPER (TOTAL).....	1.01	MG/L
10:	049 /IRON (TOTAL).....	.35	MG/L
11:	054 /ZINC (TOTAL).....	.02	MG/L
12:	128 /ACIDITY, TOTAL.....	8.	MG/L
13:	160 /MANGANESE (TOTAL).....	.08	MG/L
14:	161 /CHLORIDE.....	4.0	PPM
15:	162 /ALUMINUM (TOTAL).....	.52	MG/L
16:	259 /POTASSIUM.....	0.41	MG/L

* 87JM019 - JOHN MACHELL STATUS (S OF JAN 29, 1988 *

REGISTERED ON: JUN 3, 1987, BY :ROB G

LOCATOR: AIRFOR07/HALIFAX INTERNATIONAL AIRPORT
DISCH AT END OF RUNWAY TO JOHNSON RIVER PROV: NS
NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26,128
PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN: DATE: 11/ 5/87 (MAY 11, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED: DATE: 11/ 5/87 (MAY 11, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:
NARRATIVE:

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 006 /CONDUCTIVITY.....	0.809	MMHO/CM
2: 007 /COLOR.....	L5.	WAVE LNG.
3: 022 /MAGNESIUM (TOTAL).....	5.99	MG/L
4: 023 /CARBON, TOTAL ORGANIC (TUC)...	1.7	MG/L
5: 030 /SULPHATE (SO4).....	245.	MG/L
6: 035 /SODIUM.....	2.65	MG/L
7: 036 /CALCIUM (TOTAL).....	10.9	MG/L
8: 044 /ARSENIC (TOTAL).....	L.05	MG/L
9: 048 /COPPER (TOTAL).....	.03	MG/L
10: 049 /IRON (TOTAL).....	5.69	MG/L
11: 054 /ZINC (TOTAL).....	.09	MG/L
12: 082 /ORTHO PHOSPHATE PHOSPHORUS....	"NO SAMPLE FOUND"	MG/L
13: 084 /PHOSPHATE PHOSPHORUS TOTAL....	"NO SAMPLE FOUND"	MG/L
14: 128 /ACIDITY, TOTAL.....	120.	MG/L
15: 129 /NITROGEN, TOTAL KJELDAHL.....	"NO SAMPLE FOUND"	MG/L
16: 160 /MANGANESE (TOTAL).....	4.67	MG/L
17: 161 /CHLORIDE.....	2.9	PPM
18: 162 /ALUMINUM (TOTAL).....	6.06	MG/L
19: 259 /POTASSIUM.....	1.27	MG/L

* 87JM020 - JOHN MACHELL STATUS AS OF OCT 23, 1987 *

REGISTERED ON: JUN 3, 1987; BY :BOB G

LOCATOR: AIRPOR02/HALIFAX INTERNATIONAL AIRPORT

MAIN DISCH AT OLD GUYSB TO SALMON R

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26,128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 11/ 5/87 (MAY 11, 1987); TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 11/ 5/87 (MAY 11, 1987); TIME: 1000

DEPTH: .00 METERS; TIDE:

NARRATIVE:

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE	UNITS
1: 006 /CONDUCTIVITY.....	2.17	MMHO/CM
2: 007 /COLOR.....	20.	WAVE LENG.
3: 022 /MAGNESIUM (TOTAL).....	19.3	MG/L
4: 023 /CARBON, TOTAL ORGANIC (TOC)...	2.4	MG/L
5: 030 /SULPHATE (SO4).....	908.	MG/L
6: 035 /SODIUM.....	33.8	MG/L
7: 036 /CALCIUM (TOTAL).....	66.7	MG/L
8: 044 /ARSENIC (TOTAL).....	.05	MG/L
9: 048 /COPPER (TOTAL).....	.24	MG/L
10: 049 /IRON (TOTAL).....	114.	MG/L
11: 054 /ZINC (TOTAL).....	1.01	MG/L
12: 128 /ACIDITY, TOTAL.....	510.	MG/L
13: 160 /MANGANESE (TOTAL).....	1.94	MG/L
14: 161 /CHLORIDE.....	50.	PPM
15: 162 /ALUMINUM (TOTAL).....	26.4	MG/L
16: 259 /POTASSIUM.....	1.69	MG/L

* 87JM021 - JOHN MACHELL STATUS AS OF JAN 13, 1988 *

REGISTERED ON: JUN 3, 1987, BY :BOB G

LOCATOR: JOHNSNO2/JOHNSON RIVER

RUNOFF FR PROPOSD IND. PARK @ AIRPORT

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26,128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 1/ 6/87 (JUN 1, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 1/ 6/87 (JUN 1, 1987), TIME: 1000

DEPTH: .00 METERS, TIME:
NARRATIVE:

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 006 /CONDUCTIVITY.....	0.1254	MMHO/CM
2: 007 /COLOR.....	40.	WAVE LNG.
3: 022 /MAGNESIUM (TOTAL).....	1.33	MG/L
4: 023 /CARBON, TOTAL ORGANIC (TOC)...	6.8	MG/L
5: 030 /SULPHATE (SO4).....	19.	MG/L
6: 035 /SODIUM.....	11.5	MG/L
7: 036 /CALCIUM (TOTAL).....	6.10	MG/L
8: 044 /ARSENIC (TOTAL).....	L.05	MG/L
9: 048 /COPPER (TOTAL).....	L.01	MG/L
10: 049 /IRON (TOTAL).....	.53	MG/L
11: 054 /ZINC (TOTAL).....	.01	MG/L
12: 082 /ORTHO PHOSPHATE PHOSPHORUS....	L0.005	MG/L
13: 084 /PHOSPHATE PHOSPHORUS TOTAL....	L0.005	MG/L
14: 128 /ACIDITY, TOTAL.....	8.	MG/L
15: 129 /NITROGEN, TOTAL KJELDAHL.....	0.51	MG/L
16: 160 /MANGANESE (TOTAL).....	.51	MG/L
17: 161 /CHLORIDE.....	18.	PPM
18: 162 /ALUMINUM (TOTAL).....	.57	MG/L
19: 259 /POTASSIUM.....	0.62	MG/L

 * 87JM022 - JOHN KACHELL STATUS AS OF JAN 13, 1988 *

REGISTERED ON: JUN 3, 1987, BY :BOB G

LOCATOR: JOHNSN03/JOHNSON RIVER
 BELOW AIRPORT QUEEN LK BRANCH ABV IND PK PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
 84,82,63,26,128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 1/ 6/87 (JUN 1, 1987), TIME: 1000, FREQ: 1
 SAMPLING ENDED, DATE: 1/ 6/87 (JUN 1, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:
 NARRATIVE:

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	..... VALUE	UNITS
1:	006 /CONDUCTIVITY.....	0.1087	MMHO/CM
2:	007 /COLOR.....	150.	WAVE LNG.
3:	022 /MAGNESIUM (TOTAL).....	1.05	MG/L
4:	023 /CARBON, TOTAL ORGANIC (TOC)...	13.8	MG/L
5:	030 /SULPHATE (SO4).....	21.	MG/L
6:	035 /SODIUM.....	8.36	MG/L
7:	036 /CALCIUM (TOTAL).....	4.05	MG/L
8:	044 /ARSENIC (TOTAL).....	L.05	MG/L
9:	048 /COPPER (TOTAL).....	L.01	MG/L
10:	049 /IRON (TOTAL).....	4.42	MG/L
11:	054 /ZINC (TOTAL).....	.01	MG/L
12:	082 /ORTHO PHOSPHATE PHOSPHORUS....	0.035	MG/L
13:	084 /PHOSPHATE PHOSPHORUS TOTAL....	0.035	MG/L
14:	128 /ACIDITY, TOTAL.....	16.	MG/L
15:	129 /NITROGEN, TOTAL KJELDAHL.....	0.88	MG/L
16:	160 /MANGANESE (TOTAL).....	.48	MG/L
17:	161 /CHLORIDE.....	15.	PPM
18:	162 /ALUMINUM (TOTAL).....	.77	MG/L
19:	259 /POTASSIUM.....	0.44	MG/L

* 87JM023 - JOHN MACHELL STATUS NS OF DEC 24, 1987 *

REGISTERED ON: JUN 3, 1987, BY :BOB G

LOCATOR: JOHNSN04/JOHNSON RIVER

BELOW BOTH AIRPORT & IND PARK

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 1/ 6/87 (JUN 1, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 1/ 6/87 (JUN 1, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:
NARRATIVE:

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 006 /CONDUCTIVITY.....	0.133	MMHO/CM
2: 007 /COLOR.....	70.	WAVE LNG.
3: 022 /MAGNESIUM (TOTAL).....	1.36	MG/L
4: 023 /CARBON, TOTAL ORGANIC (TOC)...	7.3	MG/L
5: 030 /SULPHATE (SO4).....	18.	MG/L
6: 035 /SODIUM.....	11.8	MG/L
7: 036 /CALCIUM (TOTAL).....	6.50	MG/L
8: 044 /ARSENIC (TOTAL).....	L.05	MG/L
9: 048 /COPPER (TOTAL).....	L.01	MG/L
10: 049 /IRON (TOTAL).....	.74	MG/L
11: 054 /ZINC (TOTAL).....	.01	MG/L
12: 160 /MANGANESE (TOTAL).....	.56	MG/L
13: 161 /CHLORIDE.....	21.	PPM
14: 162 /ALUMINUM (TOTAL).....	.62	MG/L
15: 259 /POTASSIUM.....	0.60	MG/L
16: 318 /GRAN ALKALINITY	23.2	UEQ/L

* 87JMO24 - JOHN MACHELL STATUS AS OF OCT 23, 1987 *

REGISTERED ON: JUN 3, 1987, BY :BOB G

LOCATOR: HOLLAND/HOLLAND BROOK, MG 45 64 0 49 66 05

ZONE 20 OUTLET TO PREFERENCE POND

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259

128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN: DATE: 12/ 5/87 (MAY 12, 1987), TIME: 1000, FREQ: 1

SAMPLING ENDED: DATE: 12/ 5/87 (MAY 12, 1987), TIME: 1000

DEPTH: .00 METERS; TIDE:

NARRATIVE:

---- SAMPLE ANALYSIS ----

.....	PARAMETER	VALUE	UNITS
1:	006 /CONDUCTIVITY.....	0.172	MMHO/CM
2:	007 /COLOR.....	10.	WAVE LNG.
3:	022 /MAGNESIUM (TOTAL).....	.98	MG/L
4:	023 /CARBON; TOTAL ORGANIC (TOC)...	2.4	MG/L
5:	030 /SULPHATE (SO4).....	20.	MG/L
6:	035 /SODIUM.....	21.8	MG/L
7:	036 /CALCIUM (TOTAL).....	6.92	MG/L
8:	044 /ARSENIC (TOTAL).....	L.05	MG/L
9:	048 /COPPER (TOTAL).....	L.01	MG/L
10:	049 /IRON (TOTAL).....	.12	MG/L
11:	054 /ZINC (TOTAL).....	.01	MG/L
12:	128 /ACIDITY; TOTAL.....	4.	MG/L
13:	160 /MANGANESE (TOTAL).....	.21	MG/L
14:	161 /CHLORIDE.....	30.	PPM
15:	162 /ALUMINUM (TOTAL).....	.13	MG/L
16:	259 /POTASSIUM.....	0.48	MG/L

* 87JM025 - JOHN MACHELL STATUS AS OF JUN 13, 1988 *

REGISTERED ON: JUN 3, 1987, BY :BOB G

LOCATOR: HOLLAND01/HOLLAND BROOK

AT OLD GUYSBOROUGH RD

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259

84,82,63,26,318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 1/ 6/87 (JUN 1, 1987); TIME: 1000, FREQ: 1

SAMPLING ENDED, DATE: 1/ 6/87 (JUN 1, 1987); TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE:

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	006 /CONDUCTIVITY.....	0.0911		MMHO/CM
2:	007 /COLOR.....	10.		WAVE LNG.
3:	022 /MAGNESIUM (TOTAL).....	.68		MG/L
4:	023 /CARBON, TOTAL ORGANIC (TOC)...	2.8		MG/L
5:	030 /SULPHATE (SO4).....	5.7		MG/L
6:	035 /SODIUM.....	10.3		MG/L
7:	036 /CALCIUM (TOTAL).....	4.76		MG/L
8:	044 /ARSENIC (TOTAL).....	L.05		MG/L
9:	048 /COPPER (TOTAL).....	L.01		MG/L
10:	049 /IRON (TOTAL).....	.42		MG/L
11:	054 /ZINC (TOTAL).....	L.01		MG/L
12:	082 /ORTHO PHOSPHATE PHOSPHORUS....	LO.005		MG/L
13:	084 /PHOSPHATE PHOSPHORUS TOTAL....	LO.005		MG/L
14:	129 /NITROGEN, TOTAL KJELDAHL.....	0.48		MG/L
15:	160 /MANGANESE (TOTAL).....	.01		MG/L
16:	161 /CHLORIDE.....	16.		PPM
17:	162 /ALUMINUM (TOTAL).....	.03		MG/L
18:	259 /POTASSIUM.....	0.37		MG/L
19:	318 /GRAN ALKALINITY	146.		UEQ/L

* 87JM026 - JOHN MACHELL STATUS AS OF JAN 13, 1988 *

REGISTERED ON: JUN 3, 1987, BY :BOB G

LOCATOR: SOLIDLK01/SOLDIER LAKE
AT DAM

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26,318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 1/ 6/87 (JUN 1, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 1/ 6/87 (JUN 1, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE:

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 006 /CONDUCTIVITY.....	0.0706	MMHO/CM
2: 007 /COLOR.....	10.	WAVE LNG.
3: 022 /MAGNESIUM (TOTAL).....	.61	MG/L
4: 023 /CARBON, TOTAL ORGANIC (TOC)...	3.6	MG/L
5: 030 /SULPHATE (SO4).....	8.0	MG/L
6: 035 /SODIUM.....	7.76	MG/L
7: 036 /CALCIUM (TOTAL).....	2.72	MG/L
8: 044 /ARSENIC (TOTAL).....	L.05	MG/L
9: 048 /COPPER (TOTAL).....	L.01	MG/L
10: 049 /IRON (TOTAL).....	.15	MG/L
11: 054 /ZINC (TOTAL).....	L.01	MG/L
12: 082 /ORTHO PHOSPHATE PHOSPHORUS....	0.025	MG/L
13: 084 /PHOSPHATE PHOSPHORUS TOTAL....	0.025	MG/L
14: 129 /NITROGEN, TOTAL KJELDAHL.....	0.43	MG/L
15: 160 /MANGANESE (TOTAL).....	.19	MG/L
16: 161 /CHLORIDE.....	11.	PPM
17: 162 /ALUMINUM (TOTAL).....	.24	MG/L
18: 259 /POTASSIUM.....	0.40	MG/L
19: 318 /GRAN ALKALINITY	-5.8	UEQ/L

* 87JM027 - JOHN MACHELL STATUS AS OF OCT 23, 1987 *

REGISTERED ON: JUN 3, 1987, BY :BOB G

LOCATOR: FISHHK01/FISH HAWK NEST RIVER

ABV MACKAY LAT44 50 30 LONGS 63 28 15

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259

84,82,63,26,128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 2/ 6/87 (JUN 2, 1987), TIME: 1000, FREQ: 1

SAMPLING ENDED, DATE: 2/ 6/87 (JUN 2, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE:

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 006 /CONDUCTIVITY.....	0.0661	MMHO/CM
2: 007 /COLOR.....	30.	WAVE LNG.
3: 022 /MAGNESIUM (TOTAL).....	.62	MG/L
4: 023 /CARBON, TOTAL ORGANIC (TOC)...	5.8	MG/L
5: 030 /SULPHATE (SO4).....	14.	MG/L
6: 035 /SODIUM.....	3.77	MG/L
7: 036 /CALCIUM (TOTAL).....	3.14	MG/L
8: 044 /ARSENIC (TOTAL).....	L.05	MG/L
9: 048 /COPPER (TOTAL).....	L.01	MG/L
10: 049 /IRON (TOTAL).....	.27	MG/L
11: 054 /ZINC (TOTAL).....	.01	MG/L
12: 128 /ACIDITY, TOTAL.....	8.	MG/L
13: 160 /MANGANESE (TOTAL).....	.15	MG/L
14: 161 /CHLORIDE.....	5.8	PPM
15: 162 /ALUMINUM (TOTAL).....	.34	MG/L
16: 259 /POTASSIUM.....	0.31	MG/L

 * 87JM028 - JOHN MACHELL STATUS AS OF JAN 13, 1988 *

REGISTERED ON: JUN 3, 1987, BY :BOB G

LOCATOR: FISHHK02/FISH HAWK NEST RIVER

BLW MACKAY LAT 44 50 0 LONG 63 27 30

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259

84,82,63,26,318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 2/ 6/87 (JUN 2, 1987), TIME: 1000, FREQ: 1

SAMPLING ENDED, DATE: 2/ 6/87 (JUN 2, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE:

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 006 /CONDUCTIVITY.....	0.0639	MMHO/CM
2: 007 /COLOR.....	30.	WAVE LNG.
3: 022 /MAGNESIUM (TOTAL).....	1.08	MG/L
4: 023 /CARBON, TOTAL ORGANIC (TOC)...	5.8	MG/L
5: 030 /SULPHATE (SO4).....	14.	MG/L
6: 035 /SODIUM.....	6.39	MG/L
7: 036 /CALCIUM (TOTAL).....	6.53	MG/L
8: 044 /ARSENIC (TOTAL).....	L.05	MG/L
9: 048 /COPPER (TOTAL).....	L.01	MG/L
10: 049 /IRON (TOTAL).....	.61	MG/L
11: 054 /ZINC (TOTAL).....	.01	MG/L
12: 082 /ORTHO PHOSPHATE PHOSPHORUS....	L0.005	MG/L
13: 084 /PHOSPHATE PHOSPHORUS TOTAL....	L0.005	MG/L
14: 129 /NITROGEN, TOTAL KJELDAHL.....	0.63	MG/L
15: 160 /MANGANESE (TOTAL).....	.45	MG/L
16: 161 /CHLORIDE.....	5.6	PPM
17: 162 /ALUMINUM (TOTAL).....	.48	MG/L
18: 259 /POTASSIUM.....	0.56	MG/L
19: 318 /GRAN ALKALINITY	-26.1	UEQ/L

* 87JM029 - JOHN MACHELL STATUS AS OF DEC 24, 1987 *

REGISTERED ON: JUN 3, 1987, BY :BOB G

LOCATOR: SAMRIV05/SALMON RIVER, HALIFAX COUNTY.

TOPO MAP 11 D/14, MILITARY GRID-682566.

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26,318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 1/ 6/87 (JUN 1, 1987), TIME: 1000, FREQ: 1

SAMPLING ENDED, DATE: 1/ 6/87 (JUN 1, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE:

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 006 /CONDUCTIVITY.....	0.0431	MMHO/CM
2: 007 /COLOR.....	10.	WAVE LNG.
3: 022 /MAGNESIUM (TOTAL).....	.49	MG/L
4: 023 /CARBON, TOTAL ORGANIC (TOC)...	4.3	MG/L
5: 030 /SULPHATE (SO4).....	8.4	MG/L
6: 035 /SODIUM.....	2.76	MG/L
7: 036 /CALCIUM (TOTAL).....	2.13	MG/L
8: 044 /ARSENIC (TOTAL).....	L.05	MG/L
9: 048 /COPPER (TOTAL).....	L.01	MG/L
10: 049 /IRON (TOTAL).....	.15	MG/L
11: 054 /ZINC (TOTAL).....	.01	MG/L
12: 160 /MANGANESE (TOTAL).....	.10	MG/L
13: 161 /CHLORIDE.....	4.2	PPM
14: 162 /ALUMINUM (TOTAL).....	.26	MG/L
15: 259 /POTASSIUM.....	0.30	MG/L
16: 318 /GRAN ALKALINITY	-14.5	UEQ/L

* 87JM030 - JOHN NACHELL STATUS AS OF OCT 23, 1987 *

REGISTERED ON: JUN 3, 1987; BY :BOB G

LOCATOR: SAMRIV01/SALMON RIVER, HALIFAX COUNTY. (INSIDE 1)

TOPO MAP 11 D/11, MILITARY GRID-6953539

PROV: NS

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 1/ 6/87 (JUN 1, 1987), TIME: 1000, FREQ: 1

SAMPLING ENDED, DATE: 1/ 6/87 (JUN 1, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE:

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE .....	.....	UNITS
1:	006 /CONDUCTIVITY.....		0.0436		MMHO/CM
2:	007 /COLOR.....		20.		WAVE LNG.
3:	022 /MAGNESIUM (TOTAL).....		.42		MG/L
4:	023 /CARBON, TOTAL ORGANIC (TOC)...		5.0		MG/L
5:	030 /SULPHATE (SO4).....		7.5		MG/L
6:	035 /SODIUM.....		3.04		MG/L
7:	036 /CALCIUM (TOTAL).....		1.85		MG/L
8:	044 /ARSENIC (TOTAL).....	L.05			MG/L
9:	048 /COPPER (TOTAL).....	L.01			MG/L
10:	049 /IRON (TOTAL).....		.13		MG/L
11:	054 /ZINC (TOTAL).....		.02		MG/L
12:	160 /MANGANESE (TOTAL).....		.08		MG/L
13:	161 /CHLORIDE.....		4.4		PPM
14:	162 /ALUMINUM (TOTAL).....		.22		MG/L
15:	259 /POTASSIUM.....		0.42		MG/L

REGISTERED ON: SEP 2, 1987, BY :BOB G

LOCATOR: JOHNSN05/JOHNSON RIVER
 INFLOW TO SOLDIER LAKE PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
 84,82,63,26,318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 2/ 9/87 (SEP 2, 1987), TIME: 1000, FREQ: 1
 SAMPLING ENDED, DATE: 2/ 9/87 (SEP 2, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:
 NARRATIVE:

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	4.54		
2:	005 /HARDNESS.....	30.		MG/L
3:	006 /CONDUCTIVITY.....	0.194		MMHO/CM
4:	007 /COLOR.....	50.		WAVE LNG.
5:	022 /MAGNESIUM (TOTAL).....	2.20		MG/L
6:	023 /CARBON, TOTAL ORGANIC (TOC)...	5.4		MG/L
7:	026 /NITRATE-N (NO3-N).....	0.05		MG/L
8:	030 /SULPHATE (SO4).....	11.6		MG/L
9:	035 /SODIUM.....	19.6		MG/L
10:	036 /CALCIUM (TOTAL).....	8.24		MG/L
11:	044 /ARSENIC (TOTAL).....	LO.05		MG/L
12:	049 /IRON (TOTAL).....	1.14		MG/L
13:	082 /ORTHO PHOSPHATE PHOSPHORUS....	LO.005		MG/L
14:	084 /PHOSPHATE PHOSPHORUS TOTAL....	LO.005		MG/L
15:	129 /NITROGEN, TOTAL KJELDAHL.....	0.70		MG/L
16:	160 /MANGANESE (TOTAL).....	0.86		MG/L
17:	161 /CHLORIDE.....	35.7		PPM
18:	162 /ALUMINUM (TOTAL).....	0.34		MG/L
19:	237 /COBALT (CO)	0.02		MG/L
20:	259 /POTASSIUM.....	0.91		MG/L

* 87JM063 - JOHN MACHELL STATUS AS OF JAN 13, 1988 *

REGISTERED ON: SEP 2, 1987; BY :BOB G

LOCATOR: SOLIDLK01/SOLDIER LAKE
AT DAM

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
64,82,63,26,318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 2/ 9/87 (SEP 2, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 2/ 9/87 (SEP 2, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:
NARRATIVE:

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....		4.97	
2:	005 /HARDNESS.....		12.	MG/L
3:	006 /CONDUCTIVITY.....		0.0744	MMHO/CM
4:	007 /COLOR.....		5.	WAVE LNG.
5:	022 /MAGNESIUM (TOTAL).....		1.17	MG/L
6:	023 /CARBON, TOTAL ORGANIC (TOC)...		3.0	MG/L
7:	026 /NITRATE-N (NO3-N).....		0.31	MG/L
8:	030 /SULPHATE (SO4).....		9.54	MG/L
9:	035 /SODIUM.....		7.93	MG/L
10:	036 /CALCIUM (TOTAL).....		2.5	MG/L
11:	044 /ARSENIC (TOTAL).....	L	0.05	MG/L
12:	049 /IRON (TOTAL).....		0.22	MG/L
13:	082 /ORTHO PHOSPHATE PHOSPHORUS....		0.095	MG/L
14:	084 /PHOSPHATE PHOSPHORUS TOTAL....		0.095	MG/L
15:	129 /NITROGEN, TOTAL KJELDAHL.....		0.46	MG/L
16:	160 /MANGANESE (TOTAL).....		0.27	MG/L
17:	161 /CHLORIDE.....		15.6	PPM
18:	162 /ALUMINUM (TOTAL).....		0.18	MG/L
19:	237 /COBALT (CO)	L	0.01	MG/L
20:	259 /POTASSIUM.....		0.41	MG/L
21:	318 /GRAN ALKALINITY		0.	UEQ/L

* 87JM064 - JOHN MACHELL STATUS AS OF JAN 13, 1988 *

REGISTERED ON: SEP 2, 1987, BY :BOB G

LOCATOR: SOLDLK00/SOLDIER LAKE
GENERAL

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 2/ 9/87 (SEP 2, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 2/ 9/87 (SEP 2, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:
NARRATIVE: STATION #1 ON LAKE

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....		4.87	
2:	005 /HARDNESS.....		10.	MG/L
3:	006 /CONDUCTIVITY.....		0.0725	MMHO/CM
4:	007 /COLOR.....		5.	WAVE LNG.
5:	022 /MAGNESIUM (TOTAL).....		0.73	MG/L
6:	023 /CARBON, TOTAL ORGANIC (TOC)...		2.4	MG/L
7:	026 /NITRATE-N (NO3-N).....		0.12	MG/L
8:	030 /SULPHATE (SO4).....		8.89	MG/L
9:	035 /SODIUM.....		7.75	MG/L
10:	036 /CALCIUM (TOTAL).....		2.85	MG/L
11:	044 /ARSENIC (TOTAL).....		0.11	MG/L
12:	049 /IRON (TOTAL).....		0.15	MG/L
13:	082 /ORTHO PHOSPHATE PHOSPHORUS....		0.05	MG/L
14:	084 /PHOSPHATE PHOSPHORUS TOTAL....		0.05	MG/L
15:	129 /NITROGEN, TOTAL KJELDAHL.....		0.49	MG/L
16:	160 /MANGANESE (TOTAL).....		0.22	MG/L
17:	161 /CHLORIDE.....		14.4	PPM
18:	162 /ALUMINUM (TOTAL).....		0.17	MG/L
19:	237 /COBALT (CO)		0.02	MG/L
20:	259 /POTASSIUM.....		0.42	MG/L

 * 87JM065 - JOHN MACHELL STATUS AS OF JAN 13, 1988 *

REGISTERED ON: SEP 2, 1987, BY :BOB G

LOCATOR: SOLDLK00/SOLDIER LAKE
 GENERAL

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
 84,82,63,26

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 2/ 9/87 (SEP 2, 1987), TIME: 1000, FREQ: 1
 SAMPLING ENDED, DATE: 2/ 9/87 (SEP 2, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:
 NARRATIVE: STATION #2 ON LAKE.

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....		4.91	
2:	005 /HARDNESS.....		10.	
3:	006 /CONDUCTIVITY.....		0.0759	MG/L
4:	007 /COLOR.....		5.	MMHO/CM
5:	022 /MAGNESIUM (TOTAL).....		0.72	WAVE LNG.
6:	023 /CARBON, TOTAL ORGANIC (TOC)...		2.5	MG/L
7:	026 /NITRATE-N (NO3-N).....		0.12	MG/L
8:	030 /SULPHATE (SO4).....		8.47	MG/L
9:	035 /SODIUM.....		8.23	MG/L
10:	036 /CALCIUM (TOTAL).....		2.81	MG/L
11:	044 /ARSENIC (TOTAL).....		0.13	MG/L
12:	049 /IRON (TOTAL).....		0.15	MG/L
13:	082 /ORTHO PHOSPHATE PHOSPHORUS....		0.05	MG/L
14:	084 /PHOSPHATE PHOSPHORUS TOTAL....		0.05	MG/L
15:	129 /NITROGEN, TOTAL KJELDAHL.....		0.42	MG/L
16:	160 /MANGANESE (TOTAL).....		0.22	MG/L
17:	161 /CHLORIDE.....		13.4	PPM
18:	162 /ALUMINUM (TOTAL).....		0.18	MG/L
19:	237 /COBALT (CO)		0.01	MG/L
20:	259 /POTASSIUM.....		0.42	MG/L

* 87JM066 - JOHN KACHELL STATUS AS OF JAN 18, 1988 *

REGISTERED ON: SEP 2, 1987; BY :BOB G

LOCATOR: HOLLAN02/HOLLAND BROOK

INFLOW TO SOLDIER LAKE

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26,318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 2/ 9/87 (SEP 2, 1987), TIME: 1000, FREQ: 1

SAMPLING ENDED, DATE: 2/ 9/87 (SEP 2, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE: NONE

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	7.18		
2:	005 /HARDNESS.....	24.		MG/L
3:	006 /CONDUCTIVITY.....	0.191		MMHO/CM
4:	007 /COLOR.....	5.		WAVE LNG.
5:	022 /MAGNESIUM (TOTAL).....	1.27		MG/L
6:	023 /CARBON, TOTAL ORGANIC (TOC)...	3.7		MG/L
7:	026 /NITRATE-N (NO3-N).....	0.03		MG/L
8:	030 /SULPHATE (SO4).....	7.60		MG/L
9:	035 /SODIUM.....	30.		MG/L
10:	036 /CALCIUM (TOTAL).....	7.50		MG/L
11:	044 /ARSENIC (TOTAL).....	0.06		MG/L
12:	049 /IRON (TOTAL).....	0.24		MG/L
13:	082 /ORTHO PHOSPHATE PHOSPHORUS....	0.045		MG/L
14:	084 /PHOSPHATE PHOSPHORUS TOTAL....	0.045		MG/L
15:	129 /NITROGEN, TOTAL KJELDAHL.....	0.53		MG/L
16:	160 /MANGANESE (TOTAL).....	0.02		MG/L
17:	161 /CHLORIDE.....	40.4		PPM
18:	162 /ALUMINUM (TOTAL).....	LO.025		MG/L
19:	237 /COBALT (CO)	LO.01		MG/L
20:	259 /POTASSIUM.....	0.78		MG/L
21:	318 /GRAN ALKALINITY	270.		UER/L

* 87JM067 - JOHN MACHELL STATUS AS OF JAN 18, 1988 *

REGISTERED ON: SEP 2, 1987, BY :BOB G

LOCATOR: FISHHK01/FISH HAWK NEST RIVER

ABV MACKAY LAT44 50 30 LONG 63 28 15

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259

84,82,63,26,128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 2/ 9/87 (SEP 2, 1987), TIME: 1000, FREQ: 1

SAMPLING ENDED, DATE: 2/ 9/87 (SEP 2, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE: NONE

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	3.97	
2: 005 /HARDNESS.....	85.	MG/L
3: 006 /CONDUCTIVITY.....	0.432	MMHO/CM
4: 007 /COLOR.....	5.	WAVE LNG.
5: 022 /MAGNESIUM (TOTAL).....	3.09	MG/L
6: 023 /CARBON, TOTAL ORGANIC (TOC)...	2.7	MG/L
7: 026 /NITRATE-N (NO3-N).....	0.11	MG/L
8: 030 /SULPHATE (SO4).....	69.0	MG/L
9: 035 /SODIUM.....	36.0	MG/L
10: 036 /CALCIUM (TOTAL).....	29.1	MG/L
11: 044 /ARSENIC (TOTAL).....	0.13	MG/L
12: 049 /IRON (TOTAL).....	1.24	MG/L
13: 082 /ORTHO PHOSPHATE PHOSPHORUS....	LO.005	MG/L
14: 084 /PHOSPHATE PHOSPHORUS TOTAL....	LO.005	MG/L
15: 128 /ACIDITY, TOTAL.....	14.	MG/L
16: 129 /NITROGEN, TOTAL KJELDAHL.....	3.78	MG/L
17: 160 /MANGANESE (TOTAL).....	1.41	MG/L
18: 161 /CHLORIDE.....	47.8	PPM
19: 162 /ALUMINUM (TOTAL).....	0.43	MG/L
20: 237 /COBALT (CO)	0.03	MG/L
21: 259 /POTASSIUM.....	2.01	MG/L

* 87JM068 - JOHN MACHELL STATUS AS OF JAN 18, 1988 *

REGISTERED ON: SEP 2, 1987, BY :BOB G

LOCATOR: BENBRK06/BENNERY BROOK

BENNERY BRK STA. 6

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259

84,82,63,26

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 2/ 9/87 (SEP 2, 1987), TIME: 1000, FREQ: 1

SAMPLING ENDED, DATE: 2/ 9/87 (SEP 2, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE: NONE

----- SAMPLE ANALYSIS -----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	4.88		
2:	005 /HARDNESS.....	85.		MG/L
3:	006 /CONDUCTIVITY.....	0.437		MMHO/CM
4:	007 /COLOR.....	15.		WAVE LENG.
5:	022 /MAGNESIUM (TOTAL).....	6.24		MG/L
6:	023 /CARBON, TOTAL ORGANIC (TOC)...	1.9		MG/L
7:	026 /NITRATE-N (NO3-N).....	3.39		MG/L
8:	030 /SULPHATE (SO4).....	62.9		MG/L
9:	035 /SODIUM.....	47.0		MG/L
10:	036 /CALCIUM (TOTAL).....	24.5		MG/L
11:	044 /ARSENIC (TOTAL).....	0.16		MG/L
12:	049 /IRON (TOTAL).....	0.23		MG/L
13:	082 /ORTHO PHOSPHATE PHOSPHORUS....	10.005		MG/L
14:	084 /PHOSPHATE PHOSPHORUS TOTAL....	10.005		MG/L
15:	129 /NITROGEN, TOTAL KJELDAHL.....	1.47		MG/L
16:	160 /MANGANESE (TOTAL).....	1.97		MG/L
17:	161 /CHLORIDE.....	66.2		PPM
18:	162 /ALUMINUM (TOTAL).....	1.24		MG/L
19:	237 /COBALT (CO)	0.04		MG/L
20:	259 /POTASSIUM.....	2.12		MG/L

* 87JM069 - JOHN MACHELL STATUS AS OF JAN 18, 1988 *

REGISTERED ON: SEP 2, 1987; BY :BOB G

LOCATOR: JOHNSN02/JOHNSON RIVER

RUNOFF FR PROPOSD IND. PARK @ AIRPORT

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26,128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 2/ 9/87 (SEP 2, 1987); TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 2/ 9/87 (SEP 2, 1987); TIME: 1000

DEPTH: .00 METERS; TIDE:
NARRATIVE: NONE

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE .....	.....	UNITS
1:	001 /PH.....		4.7		
2:	005 /HARDNESS.....		45.		MG/L
3:	006 /CONDUCTIVITY.....		0.253		MMHO/CM
4:	007 /COLOR.....		"65 L10"		WAVE LENG.
5:	022 /MAGNESIUM (TOTAL).....		2.77		MG/L
6:	023 /CARBON, TOTAL ORGANIC (TOC)...		4.1		MG/L
7:	026 /NITRATE-N (NO3-N).....		0.24		MG/L
8:	030 /SULPHATE (SO4).....		33.6		MG/L
9:	035 /SODIUM.....		29.0		MG/L
10:	036 /CALCIUM (TOTAL).....		13.5		MG/L
11:	044 /ARSENIC (TOTAL).....		0.19		MG/L
12:	049 /IRON (TOTAL).....		0.47		MG/L
13:	082 /ORTHO PHOSPHATE PHOSPHORUS....		0.16		MG/L
14:	084 /PHOSPHATE PHOSPHORUS TOTAL....		0.16		MG/L
15:	128 /ACIDITY, TOTAL.....		16.		MG/L
16:	129 /NITROGEN, TOTAL KJELDAHL.....		0.92		MG/L
17:	160 /MANGANESE (TOTAL).....		0.71		MG/L
18:	161 /CHLORIDE.....		52.1		PPM
19:	162 /ALUMINUM (TOTAL).....		0.43		MG/L
20:	237 /COBALT (CO)		0.01		MG/L
21:	259 /POTASSIUM.....		1.32		MG/L

* 87JM070 - JOHN MACHELL STATUS AS OF JAN 18, 1988 *

REGISTERED ON: SEP 15, 1987, BY :ROB G

LOCATOR: FISHHK01/FISH HAWK NEST RIVER

ABV MACKAY LAT44 50 30 LONG 63 28 15

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259

84,82,63,26,128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 15/ 9/87 (SEP 15, 1987), TIME: 1100, FREQ: 1

SAMPLING ENDED, DATE: 15/ 9/87 (SEP 15, 1987), TIME: 1100

DEPTH: .00 METERS, TIDE:

NARRATIVE: AFTER HEAVY RAIN.(APROX. 1in.)

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	4.48	
2: 005 /HARDNESS.....	65.	MG/L
3: 006 /CONDUCTIVITY.....	0.364	MMHO/CM
4: 007 /COLOR.....	120.	WAVE LENG.
5: 022 /MAGNESIUM (TOTAL).....	2.43	MG/L
6: 023 /CARBON, TOTAL ORGANIC (TOC)...	9.0	MG/L
7: 026 /NITRATE-N (NO3-N).....	0.07	MG/L
8: 030 /SULPHATE (SO4).....	88.6	MG/L
9: 035 /SODIUM.....	25.6	MG/L
10: 036 /CALCIUM (TOTAL).....	22.6	MG/L
11: 044 /ARSENIC (TOTAL).....	0.16	MG/L
12: 049 /IRON (TOTAL).....	3.53	MG/L
13: 082 /ORTHO PHOSPHATE PHOSPHORUS....	0.12	MG/L
14: 084 /PHOSPHATE PHOSPHORUS TOTAL....	0.12	MG/L
15: 128 /ACIDITY, TOTAL.....	16.	MG/L
16: 129 /NITROGEN, TOTAL KJELIAHL.....	3.36	MG/L
17: 160 /MANGANESE (TOTAL).....	1.04	MG/L
18: 161 /CHLORIDE.....	36.5	PPM
19: 162 /ALUMINUM (TOTAL).....	0.34	MG/L
20: 259 /POTASSIUM.....	1.83	MG/L

* 87JM071 - JOHN NACHELL STATUS AS OF JAN 18, 1988 *

REGISTERED ON: SEP 15, 1987, BY :BOB G

LOCATOR: JOHNSN02/JOHNSON RIVER

RUNOFF FR PROPOSED IND. PARK @ AIRPORT

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26,128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 15/ 9/87 (SEP 15, 1987), TIME: 1100, FREQ: 1
SAMPLING ENDED, DATE: 15/ 9/87 (SEP 15, 1987), TIME: 1100

DEPTH: .00 METERS, TIDE:

NARRATIVE: AFTER HEAVY RAIN.(APROX. 1in.)

----- SAMPLE ANALYSIS -----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	5.91		
2:	005 /HARDNESS.....	30.		MG/L
3:	006 /CONDUCTIVITY.....	0.143		MMHO/CM
4:	007 /COLOR.....	"G30 L40"		WAVE LENG.
5:	022 /MAGNESIUM (TOTAL).....	1.70		MG/L
6:	023 /CARBON, TOTAL ORGANIC (TOC)...	7.8		MG/L
7:	026 /NITRATE-N (NO3-N).....	0.28		MG/L
8:	030 /SULPHATE (SO4).....	22.3		MG/L
9:	035 /SODIUM.....	14.7		MG/L
10:	036 /CALCIUM (TOTAL).....	8.84		MG/L
11:	044 /ARSENIC (TOTAL).....	0.10		MG/L
12:	049 /IRON (TOTAL).....	0.62		MG/L
13:	082 /ORTHO PHOSPHATE PHOSPHORUS....	0.06		MG/L
14:	084 /PHOSPHATE PHOSPHORUS TOTAL....	0.06		MG/L
15:	128 /ACIDITY, TOTAL.....	16.		MG/L
16:	129 /NITROGEN, TOTAL KJELDAHL.....	0.66		MG/L
17:	160 /MANGANESE (TOTAL).....	0.21		MG/L
18:	161 /CHLORIDE.....	26.4		PPM
19:	162 /ALUMINUM (TOTAL).....	0.39		MG/L
20:	259 /POTASSIUM.....	1.32		MG/L

* 87JM072 - JOHN MACHELL STATUS AS OF JAN 18, 1988 *

REGISTERED ON: SEP 15, 1987; BY :BOB G

LOCATOR: JOHNSN03/JOHNSON RIVER

BELOW AIRPORT QUEEN LK BRANCH AEU IND PK PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259

84,82,63,26,128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 15/ 9/87 (SEP 15, 1987), TIME: 1100, FREQ: 1

SAMPLING ENDED, DATE: 15/ 9/87 (SEP 15, 1987), TIME: 1100

DEPTH: .00 METERS, TIDE:

NARRATIVE: AFTER HEAVY RAIN.(APROX. 1in.)

----- SAMPLE ANALYSIS -----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....		4.34	
2:	005 /HARDNESS.....		30.	MG/L
3:	006 /CONDUCTIVITY.....		0.222	MMHO/CM
4:	007 /COLOR.....		70.	WAVE LNG.
5:	022 /MAGNESIUM (TOTAL).....		2.60	MG/L
6:	023 /CARBON, TOTAL ORGANIC (TOC)...		8.4	MG/L
7:	026 /NITRATE-N (NO3-N).....		0.19	MG/L
8:	030 /SULPHATE (SO4).....		33.2	MG/L
9:	035 /SODIUM.....		17.7	MG/L
10:	036 /CALCIUM (TOTAL).....		7.62	MG/L
11:	044 /ARSENIC (TOTAL).....		0.06	MG/L
12:	049 /IRON (TOTAL).....		2.46	MG/L
13:	082 /ORTHO PHOSPHATE PHOSPHORUS....		0.07	MG/L
14:	084 /PHOSPHATE PHOSPHORUS TOTAL....		0.07	MG/L
15:	128 /ACIDITY, TOTAL.....		30.	MG/L
16:	129 /NITROGEN, TOTAL KJELDAHL.....		0.84	MG/L
17:	160 /MANGANESE (TOTAL).....		1.55	MG/L
18:	161 /CHLORIDE.....		28.7	PPM
19:	162 /ALUMINUM (TOTAL).....		1.48	MG/L
20:	259 /POTASSIUM.....		0.78	MG/L

* 87JM073 - JOHN NACHELL STATUS AS OF JAN 18, 1988 *

REGISTERED ON: SEP 15, 1987, BY :BOB G

LOCATOR: JOHNSN04/JOHNSON RIVER

BELOW BOTH AIRPORT & IND PARK

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 15/ 9/87 (SEP 15, 1987), TIME: 1100, FREQ: 1
SAMPLING ENDED, DATE: 15/ 9/87 (SEP 15, 1987), TIME: 1100

DEPTH: .00 METERS, TIDE:

NARRATIVE: AFTER HEAVY RAIN.(APROX. 1in.)

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001 /PH.....	4.34	
2: 005 /HARDNESS.....	30.	MG/L
3: 006 /CONDUCTIVITY.....	0.211	MMHO/CM
4: 007 /COLOR.....	70.	WAVE LNG.
5: 022 /MAGNESIUM (TOTAL).....	2.63	MG/L
6: 023 /CARBON, TOTAL ORGANIC (TOC)...	7.2	MG/L
7: 026 /NITRATE-N (NO3-N).....	0.24	MG/L
8: 030 /SULPHATE (SO4).....	33.1	MG/L
9: 035 /SODIUM.....	18.1	MG/L
10: 036 /CALCIUM (TOTAL).....	18.62	MG/L
11: 044 /ARSENIC (TOTAL).....	0.25	MG/L
12: 049 /IRON (TOTAL).....	2.06	MG/L
13: 082 /ORTHO PHOSPHATE PHOSPHORUS....	0.07	MG/L
14: 084 /PHOSPHATE PHOSPHORUS TOTAL....	0.07	MG/L
15: 129 /NITROGEN, TOTAL KJELDAHL.....	0.91	MG/L
16: 160 /MANGANESE (TOTAL).....	1.50	MG/L
17: 161 /CHLORIDE.....	28.2	PPM
18: 162 /ALUMINUM (TOTAL).....	1.47	MG/L
19: 259 /POTASSIUM.....	1.00	MG/L
20: 318 /GRAN ALKALINITY	-40.6	UEQ/L

* 87JM074 - JOHN MACHELL STATUS AS OF JAN 18, 1988 *

REGISTERED ON: SEP 15, 1987, BY :BOB G

LOCATOR: HOLLAN00/HOLLAND BROOK, MG 45 64 0 49 66 05

ZONE 20 OUTLET TO PREEFER POND

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 15/ 9/87 (SEP 15, 1987), TIME: 1100, FREQ: 1
SAMPLING ENDED, DATE: 15/ 9/87 (SEP 15, 1987), TIME: 1100

DEPTH: .00 METERS, TIDE:

NARRATIVE: AFTER HEAVY RAIN. (APROX. 1in.)

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001 /PH.....	6.60	
2: 005 /HARDNESS.....	30.	MG/L
3: 006 /CONDUCTIVITY.....	0.272	MMHO/CM
4: 007 /COLOR.....	10.	WAVE LNG.
5: 022 /MAGNESIUM (TOTAL).....	1.41	MG/L
6: 023 /CARBON, TOTAL ORGANIC (TOC)...	3.7	MG/L
7: 026 /NITRATE-N (NO3-N).....	LO.02	MG/L
8: 030 /SULPHATE (SO4).....	14.3	MG/L
9: 035 /SODIUM.....	37.8	MG/L
10: 036 /CALCIUM (TOTAL).....	B.83	MG/L
11: 044 /ARSENIC (TOTAL).....	0.05	MG/L
12: 049 /IRON (TOTAL).....	0.41	MG/L
13: 082 /ORTHO PHOSPHATE PHOSPHORUS....	0.07	MG/L
14: 084 /PHOSPHATE PHOSPHORUS TOTAL....	0.07	MG/L
15: 129 /ACIDITY, TOTAL.....	2.8	MG/L
16: 129 /NITROGEN, TOTAL KJELDAHL.....	0.60	MG/L
17: 160 /MANGANESE (TOTAL).....	0.11	MG/L
18: 161 /CHLORIDE.....	65.4	PPM
19: 162 /ALUMINUM (TOTAL).....	LO.025	MG/L
20: 259 /POTASSIUM.....	1.12	MG/L

* 87JUN075 - JOHN MACHELL STATUS AS OF NOV 25, 1987 *

REGISTERED ON: SEP 15, 1987, BY :BOB G

LOCATOR: AIRPORTS/HALIFAX INTERNATIONAL AIRPORT

EFFL.2ND STAGE TREATMENT

PRDV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,48,160,162,259

128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN: DATE: 15/ 9/87 (SEP 15, 1987), TIME: 1100, FROM: 1

SAMPLING ENDED: DATE: 15/ 9/87 (SEP 15, 1987), TIME: 1100

DEPTH: .00 METERS, TIDE:

NARRATIVE: AFTER HEAVY RAIN.(APPROX. 1in.)

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001 /PH.....	4.12	
2: 005 /HARDNESS.....	1700.	MG/L
3: 022 /MAGNESIUM (TOTAL).....	38.5	MG/L
4: 035 /SODIUM.....	356.	MG/L
5: 044 /ARSENIC (TOTAL).....	0.16	MG/L
6: 049 /IRON (TOTAL).....	3.77	MG/L
7: 128 /ACIDITY, TOTAL.....	"NO SAMPLE"	MG/L
8: 160 /MANGANESE (TOTAL).....	2.79	MG/L
9: 162 /ALUMINUM (TOTAL).....	17.6	MG/L
10: 259 /POTASSIUM.....	2.12	MG/L

* 87JM076 - JOHN MACHELL STATUS AS OF JAN 6, 1988 *

REGISTERED ON: SEP 15, 1987; BY :BOB G

LOCATOR: AIRPOR02/HALIFAX INTERNATIONAL AIRPORT

MAIN DSCH AT OLD GUYSB TO SALMON R

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26,128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 16/ 9/87 (SEP 16, 1987), TIME: 900, FREQ: 1
SAMPLING ENDED, DATE: 16/ 9/87 (SEP 16, 1987), TIME: 900

DEPTH: .00 METERS; TIDE:

NARRATIVE: AFTER HEAVY RAIN.(APROX. 1in.)

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	3.34	
2: 005 /HARDNESS.....	250.	MG/L
3: 006 /CONDUCTIVITY.....	1.31	MMHO/CM
4: 007 /COLOR.....	5.	WAVE LNG.
5: 022 /MAGNESIUM (TOTAL).....	11.1	MG/L
6: 023 /CARBON, TOTAL ORGANIC (TOC)...	3.5	MG/L
7: 030 /SULPHATE (SO4).....	395.	MG/L
8: 035 /SODIUM.....	72.	MG/L
9: 036 /CALCIUM (TOTAL).....	81.2	MG/L
10: 044 /ARSENIC (TOTAL).....	0.07	MG/L
11: 049 /IRON (TOTAL).....	13.9	MG/L
12: 128 /ACIDITY, TOTAL.....	150.	MG/L
13: 160 /MANGANESE (TOTAL).....	1.52	MG/L
14: 161 /CHLORIDE.....	112.	PPM
15: 162 /ALUMINUM (TOTAL).....	8.81	MG/L
16: 259 /POTASSIUM.....	2.04	MG/L

* 87JM077 - JOHN MACHELL STATUS AS OF JAN 6, 1988 *

REGISTERED ON: SEP 15, 1987, BY :BOB G

LOCATOR: AIRPOR07/HALIFAX INTERNATIONAL AIRPORT

DISCH AT END OF RUNWAY TO JOHNSON RIVER PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26,128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 16/ 9/87 (SEP 16, 1987), TIME: 900, FREQ: 1
SAMPLING ENDED, DATE: 16/ 9/87 (SEP 16, 1987), TIME: 900

DEPTH: .00 METERS, TIDE:

NARRATIVE: AFTER HEAVY RAIN.(APROX. 1in.)

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	2.94	
2: 005 /HARDNESS.....	100.	MG/L
3: 006 /CONDUCTIVITY.....	1.102	MMHO/CM
4: 007 /COLOR.....	5.	WAVE LNG.
5: 022 /MAGNESIUM (TOTAL).....	14.9	MG/L
6: 023 /CARBON, TOTAL ORGANIC (TOC)...	1.1	MG/L
7: 030 /SULPHATE (SO4).....	370.	MG/L
8: 035 /SODIUM.....	2.84	MG/L
9: 036 /CALCIUM (TOTAL).....	17.7	MG/L
10: 044 /ARSENIC (TOTAL).....	0.18	MG/L
11: 049 /IRON (TOTAL).....	15.3	MG/L
12: 128 /ACIDITY, TOTAL.....	270.	MG/L
13: 160 /MANGANESE (TOTAL).....	11.2	MG/L
14: 161 /CHLORIDE.....	3.3	PPM
15: 162 /ALUMINUM (TOTAL).....	16.8	MG/L
16: 259 /POTASSIUM.....	1.30	MG/L

* 87JM078 - JOHN MACHELL STATUS AS OF JAN 18, 1988 *

REGISTERED ON: SEP 15, 1987, BY :BOB G

LOCATOR: SOLIDLK01/SOLDIER LAKE
AT DAM

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26,318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 16/ 9/87 (SEP 16, 1987), TIME: 900, FREQ: 1
SAMPLING ENDED, DATE: 16/ 9/87 (SEP 16, 1987), TIME: 900

DEPTH: .00 METERS, TIDE:

NARRATIVE: AFTER HEAVY RAIN.(APROX. 1in.)

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001 /PH.....	4.74	
2: 005 /HARDNESS.....	B.	MG/L
3: 006 /CONDUCTIVITY.....	0.0714	MMHO/CM
4: 007 /COLOR.....	5.	WAVE LNG.
5: 022 /MAGNESIUM (TOTAL).....	0.78	MG/L
6: 023 /CARBON, TOTAL ORGANIC (TOC)...	2.8	MG/L
7: 026 /NITRATE-N (NO3-N).....	0.11	MG/L
8: 030 /SULPHATE (SO4).....	8.03	MG/L
9: 035 /SODIUM.....	B.18	MG/L
10: 036 /CALCIUM (TOTAL).....	2.09	MG/L
11: 044 /ARSENIC (TOTAL).....	0.06	MG/L
12: 049 /IRON (TOTAL).....	0.36	MG/L
13: 082 /ORTHO PHOSPHATE PHOSPHORUS....	0.055	MG/L
14: 084 /PHOSPHATE PHOSPHORUS TOTAL....	0.055	MG/L
15: 129 /NITROGEN, TOTAL KJELDAHL.....	0.48	MG/L
16: 160 /MANGANESE (TOTAL).....	0.30	MG/L
17: 161 /CHLORIDE.....	13.6	PPM
18: 162 /ALUMINUM (TOTAL).....	0.26	MG/L
19: 259 /POTASSIUM.....	0.43	MG/L
20: 318 /GRAN ALKALINITY	-8.7	UEQ/L

* 87JM079 - JOHN NACHELL STATUS AS OF JAN 18, 1988 *

REGISTERED ON: SEP 15, 1987, BY :BOB G

LOCATOR: BENBRK01/BENNER Y BROOK

BENNER Y BRK. AT OLDHAM RD.

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259

84,82,63,26,318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 16/ 9/87 (SEP 16, 1987); TIME: 900, FREQ: 1

SAMPLING ENDED, DATE: 16/ 9/87 (SEP 16, 1987); TIME: 900

DEPTH: .00 METERS, TIDE:

NARRATIVE: AFTER HEAVY RAIN.(APROX. 1in.)

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001 /PH.....	4.83	
2: 005 /HARDNESS.....	45.	MG/L
3: 006 /CONDUCTIVITY.....	0.277	MMHO/CM
4: 007 /COLOR.....	5.	WAVE LENG.
5: 022 /MAGNESIUM (TOTAL).....	3.46	MG/L
6: 023 /CARBON, TOTAL ORGANIC (TOC)...	3.6	MG/L
7: 026 /NITRATE-N (NO3-N).....	1.06	MG/L
8: 030 /SULPHATE (SO4).....	31.8	MG/L
9: 035 /SODIUM.....	26.0	MG/L
10: 036 /CALCIUM (TOTAL).....	12.2	MG/L
11: 044 /ARSENIC (TOTAL).....	10.05	MG/L
12: 049 /IRON (TOTAL).....	0.43	MG/L
13: 082 /ORTHO PHOSPHATE PHOSPHORUS....	0.02	MG/L
14: 084 /PHOSPHATE PHOSPHORUS TOTAL....	0.02	MG/L
15: 129 /NITROGEN, TOTAL KJELDAHL.....	0.78	MG/L
16: 160 /MANGANESE (TOTAL).....	0.69	MG/L
17: 161 /CHLORIDE.....	44.0	PPM
18: 162 /ALUMINUM (TOTAL).....	1.32	MG/L
19: 259 /POTASSIUM.....	1.24	MG/L
20: 318 /GRAN ALKALINITY	-11.6	UEQ/L

* 87JM080 - JOHN MACHELL STATUS AS OF JAN 18, 1988 *

REGISTERED ON: SEP 15, 1987, BY :BOB G

LOCATOR: BENBRK06/BENNERY BROOK

BENNERY BRK STA. 6

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 16/ 9/87 (SEP 16, 1987), TIME: 900, FREQ: 1
SAMPLING ENDED, DATE: 16/ 9/87 (SEP 16, 1987), TIME: 900

DEPTH: .00 METERS, TIDE:

NARRATIVE: AFTER HEAVY RAIN.(APROX. 1in.)

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	3.86	
2: 005 /HARDNESS.....	65.	MG/L
3: 006 /CONDUCTIVITY.....	0.563	MMHO/CM
4: 007 /COLOR.....	L5.	WAVE LNG.
5: 022 /MAGNESIUM (TOTAL).....	5.98	MG/L
6: 023 /CARBON, TOTAL ORGANIC (TOC)...	2.4	MG/L
7: 026 /NITRATE-N (NO3-N).....	1.45	MG/L
8: 030 /SULPHATE (SO4).....	109.	MG/L
9: 035 /SODIUM.....	58.0	MG/L
10: 036 /CALCIUM (TOTAL).....	16.9	MG/L
11: 044 /ARSENIC (TOTAL).....	0.09	MG/L
12: 049 /IRON (TOTAL).....	0.86	MG/L
13: 082 /ORTHO PHOSPHATE PHOSPHORUS....	L0.005	MG/L
14: 084 /PHOSPHATE PHOSPHORUS TOTAL....	L0.005	MG/L
15: 129 /NITROGEN, TOTAL KJELDAHL.....	1.54	MG/L
16: 160 /MANGANESE (TOTAL).....	1.35	MG/L
17: 161 /CHLORIDE.....	92.1	PFM
18: 162 /ALUMINUM (TOTAL).....	3.16	MG/L
19: 259 /POTASSIUM.....	1.72	MG/L
20: 318 /GRAN ALKALINITY	"NOT REC'D"	UEQ/L

 * 87JM081 - JOHN MACHELL STATUS AS OF JAN 29, 1988 *

REGISTERED ON: SEP 24, 1987; BY :BOB G

LOCATOR: JOHNSN04/JOHNSON RIVER

BELOW BOTH AIRPORT & IND PARK

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
 318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 23/ 9/87 (SEP 23, 1987); TIME: 1100, FREQ: 1
 SAMPLING ENDED, DATE: 23/ 9/87 (SEP 23, 1987); TIME: 1100

DEPTH: .00 METERS, TIDE:
 NARRATIVE:

---- SAMPLE ANALYSIS ----

PARAMETER	VALUE	UNITS
1: 001 /PH.....	4.28	
2: 005 /HARDNESS.....	17.	MG/L
3: 006 /CONDUCTIVITY.....	0.133	MMHO/CM
4: 007 /COLOR.....	80.	WAVE LNG.
5: 022 /MAGNESIUM (TOTAL).....	1.27	MG/L
6: 023 /CARBON, TOTAL ORGANIC (TOC)...	11.2	MG/L
7: 026 /NITRATE-N (NO3-N).....	0.11	MG/L
8: 030 /SULPHATE (SO4).....	22.1	MG/L
9: 035 /SODIUM.....	10.9	MG/L
10: 036 /CALCIUM (TOTAL).....	4.58	MG/L
11: 044 /ARSENIC (TOTAL).....	LO.05	MG/L
12: 049 /IRON (TOTAL).....	0.58	MG/L
13: 082 /ORTHO PHOSPHATE PHOSPHORUS....	0.005	MG/L
14: 084 /PHOSPHATE PHOSPHORUS TOTAL....	0.065	MG/L
15: 129 /NITROGEN, TOTAL KJELDAHL.....	0.48	MG/L
16: 160 /MANGANESE (TOTAL).....	0.52	MG/L
17: 161 /CHLORIDE.....	16.2	PPM
18: 162 /ALUMINUM (TOTAL).....	0.66	MG/L
19: 237 /COBALT (CO)	LO.01	MG/L
20: 259 /POTASSIUM.....	0.66	MG/L
21: 318 /GRAN ALKALINITY	-66.6	UEQ/L

* 87JM082 - JOHN MACHELL STATUS AS OF JAN 29, 1988 *

REGISTERED ON: SEP 24, 1987, BY :BOB G

LOCATOR: JOHNSN03/JOHNSON RIVER

BELOW AIRPORT QUEEN LK BRANCH ABV IND PK PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259

84,82,63,26,128

PROJECT CODE: 244/ENV. CONTROL FOOD & TEXTILES

SAMPLING BEGAN, DATE: 23/ 9/87 (SEP 23, 1987), TIME: 1100, FREQ: 1

SAMPLING ENDED, DATE: 23/ 9/87 (SEP 23, 1987), TIME: 1100

DEPTH: .00 METERS, TIDE:

NARRATIVE:

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....		4.06	
2:	005 /HARDNESS.....		14.	MG/L
3:	006 /CONDUCTIVITY.....		0.144	MMHO/CM
4:	007 /COLOR.....		"G90 L100"	WAVE LENG.
5:	022 /MAGNESIUM (TOTAL).....		1.17	MG/L
6:	023 /CARBON, TOTAL ORGANIC (TOC)...		10.2	MG/L
7:	026 /NITRATE-N (NO3-N).....		0.09	MG/L
8:	030 /SULPHATE (SO4).....		16.4	MG/L
9:	035 /SODIUM.....		10.8	MG/L
10:	036 /CALCIUM (TOTAL).....		3.69	MG/L
11:	044 /ARSENIC (TOTAL).....		LO.05	MG/L
12:	049 /IRON (TOTAL).....		0.64	MG/L
13:	082 /ORTHO PHOSPHATE PHOSPHORUS....		LO.005	MG/L
14:	084 /PHOSPHATE PHOSPHORUS TOTAL....		LO.005	MG/L
15:	128 /ACIDITY, TOTAL.....		24.	MG/L
16:	129 /NITROGEN, TOTAL KJELDAHL.....		0.43	MG/L
17:	160 /MANGANESE (TOTAL).....		0.58	MG/L
18:	161 /CHLORIDE.....		16.5	PPM
19:	162 /ALUMINUM (TOTAL).....		0.68	MG/L
20:	237 /COBALT (CO)		LD.01	MG/L
21:	259 /POTASSIUM.....		0.54	MG/L

* 87JM083 - JOHN MACHELL STATUS AS OF JAN 29, 1988 *

REGISTERED ON: SEP 24, 1987, BY :BOB G

LOCATOR: JOHNSN02/JOHNSON RIVER

RUNOFF FR PROPOSD IND. PARK @ AIRPORT

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26,128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 23/ 9/87 (SEP 23, 1987), TIME: 1100, FREQ: 1
SAMPLING ENDED, DATE: 23/ 9/87 (SEP 23, 1987), TIME: 1100

DEPTH: .00 METERS, TIDE:

NARRATIVE:

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE .....	.....	UNITS
1:	001 /PH.....	5.21			
2:	005 /HARDNESS.....	18.			MG/L
3:	006 /CONDUCTIVITY.....	0.1184			MMHO/CM
4:	007 /COLOR.....	60.			WAVE LNG.
5:	022 /MAGNESIUM (TOTAL).....	1.23			MG/L
6:	023 /CARBON, TOTAL ORGANIC (TOC)...	10.7			MG/L
7:	026 /NITRATE-N (NO3-N).....	0.09			MG/L
8:	030 /SULPHATE (SO4).....	13.7			MG/L
9:	035 /SODIUM.....	10.6			MG/L
10:	036 /CALCIUM (TOTAL).....	5.42			MG/L
11:	044 /ARSENIC (TOTAL).....	LO.05			MG/L
12:	049 /IRON (TOTAL).....	0.37			MG/L
13:	082 /ORTHO PHOSPHATE PHOSPHORUS....	LO.005			MG/L
14:	084 /PHOSPHATE PHOSPHORUS TOTAL....	0.05			MG/L
15:	128 /ACIDITY, TOTAL.....	18.			MG/L
16:	129 /NITROGEN, TOTAL KJELDAHL.....	0.66			MG/L
17:	160 /MANGANESE (TOTAL).....	0.21			MG/L
18:	161 /CHLORIDE.....	16.5			PPM
19:	162 /ALUMINUM (TOTAL).....	0.16			MG/L
20:	237 /COBALT (CO)	LO.01			MG/L
21:	259 /POTASSIUM.....	1.0			MG/L

* 87JM084 - JOHN MACHELL STATUS AS OF JAN 29, 1988 *

REGISTERED ON: SEP 24, 1987; BY :BOB G

LOCATOR: FISHHK01/FISH HAWK NEST RIVER

ABV MACKAY LAT44 50 30 LONG 63 28 15

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26,128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 23/ 9/87 (SEP 23, 1987); TIME: 1100, FREQ: 1
SAMPLING ENDED, DATE: 23/ 9/87 (SEP 23, 1987); TIME: 1100

DEPTH: .00 METERS, TIDE:
NARRATIVE:

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	4.1	
2: 006 /CONDUCTIVITY.....	0.134	MMHO/CM
3: 007 /COLOR.....	120.	WAVE LNG.
4: 022 /MAGNESIUM (TOTAL).....	1.06	MG/L
5: 023 /CARBON, TOTAL ORGANIC (TOC)...	13.7	MG/L
6: 026 /NITRATE-N (NO3-N).....	0.06	MG/L
7: 030 /SULPHATE (SO4).....	29.2	MG/L
8: 035 /SODIUM.....	7.49	MG/L
9: 036 /CALCIUM (TOTAL).....	6.47	MG/L
10: 044 /ARSENIC (TOTAL).....	0.08	MG/L
11: 049 /IRON (TOTAL).....	0.65	MG/L
12: 082 /ORTHO PHOSPHATE PHOSPHORUS....	LO.005	MG/L
13: 084 /PHOSPHATE PHOSPHORUS TOTAL....	0.055	MG/L
14: 128 /ACIDITY, TOTAL.....	15.	MG/L
15: 129 /NITROGEN, TOTAL KJELDAHL.....	0.66	MG/L
16: 160 /MANGANESE (TOTAL).....	0.51	MG/L
17: 161 /CHLORIDE.....	12.5	PPM
18: 162 /ALUMINUM (TOTAL).....	0.36	MG/L
19: 237 /COBALT (CO)	LO.01	MG/L
20: 259 /POTASSIUM.....	0.61	MG/L
21: 318 /GRAN ALKALINITY	-67.6	UEQ/L

* 87JM085 - JOHN MACHELL STATUS AS OF JAN 29, 1988 *

REGISTERED ON: SEP 24, 1987, BY :BOB G

LOCATOR: SOLIDLK00/SOLDIER LAKE
GENERAL

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 24/ 9/87 (SEP 24, 1987), TIME: 1100, FREQ: 1
SAMPLING ENDED, DATE: 24/ 9/87 (SEP 24, 1987), TIME: 1100

DEPTH: .00 METERS, TIDE:

NARRATIVE: SOLDIER LAKE

STATION #1

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....		4.95	
2:	006 /CONDUCTIVITY.....		0.0763	MMHO/CM
3:	007 /COLOR.....		10.	WAVE LENG.
4:	022 /MAGNESIUM (TOTAL).....		0.65	MG/L
5:	023 /CARBON, TOTAL ORGANIC (TOC)...		3.0	MG/L
6:	026 /NITRATE-N (NO3-N).....		0.13	MG/L
7:	030 /SULPHATE (SO4).....		9.08	MG/L
8:	035 /SODIUM.....		8.22	MG/L
9:	036 /CALCIUM (TOTAL).....		3.24	MG/L
10:	044 /ARSENIC (TOTAL).....		0.09	MG/L
11:	049 /IRON (TOTAL).....		0.12	MG/L
12:	082 /ORTHO PHOSPHATE PHOSPHORUS....	L0.005		MG/L
13:	084 /PHOSPHATE PHOSPHORUS TOTAL....		0.025	MG/L
14:	129 /NITROGEN, TOTAL KJELDAHL.....		0.27	MG/L
15:	160 /MANGANESE (TOTAL).....		0.31	MG/L
16:	161 /CHLORIDE.....		14.1	PPM
17:	162 /ALUMINUM (TOTAL).....		0.06	MG/L
18:	237 /COBALT (CO)	L0.01		MG/L
19:	259 /POTASSIUM.....		0.42	MG/L

* 87JM086 - JOHN MACHELL STATUS AS OF JAN 29, 1988 *

REGISTERED ON: SEP 24, 1987, BY :BOB G

LOCATOR: SOLIDLK00/SOLDIER LAKE
GENERAL

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 24/ 9/87 (SEP 24, 1987); TIME: 1100, FREQ: 1
SAMPLING ENDED, DATE: 24/ 9/87 (SEP 24, 1987); TIME: 1100

DEPTH: .00 METERS, TIDE:

NARRATIVE: SOLDIER LAKE
STATION #2

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	4.8	
2: 006 /CONDUCTIVITY.....	0.075	MMHO/CM
3: 007 /COLOR.....	10.	WAVE LNG.
4: 022 /MAGNESIUM (TOTAL).....	0.69	MG/L
5: 023 /CARBON, TOTAL ORGANIC (TOC)...	3.0	MG/L
6: 026 /NITRATE-N (NO3-N).....	0.13	MG/L
7: 030 /SULPHATE (SO4).....	8.96	MG/L
8: 035 /SODIUM.....	7.57	MG/L
9: 036 /CALCIUM (TOTAL).....	3.35	MG/L
10: 044 /ARSENIC (TOTAL).....	0.08	MG/L
11: 049 /IRON (TOTAL).....	0.14	MG/L
12: 082 /ORTHO PHOSPHATE PHOSPHORUS....	LO.005	MG/L
13: 084 /PHOSPHATE PHOSPHORUS TOTAL....	0.05	MG/L
14: 129 /NITROGEN, TOTAL KJELDAHL.....	0.36	MG/L
15: 160 /MANGANESE (TOTAL).....	0.30	MG/L
16: 161 /CHLORIDE.....	13.1	PPM
17: 162 /ALUMINUM (TOTAL).....	0.09	MG/L
18: 237 /COBALT (CO)	LO.01	MG/L
19: 259 /POTASSIUM.....	0.41	MG/L

* 87JM087 - JOHN MACHELL

STATUS AS OF JAN 29, 1988 *

REGISTERED ON: SEP 24, 1987, BY :ROB G

LOCATOR: SOLIDLK01/SOLDIER LAKE
AT DAM

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26,318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 24/ 9/87 (SEP 24, 1987); TIME: 1100, FREQ: 1
SAMPLING ENDED, DATE: 24/ 9/87 (SEP 24, 1987); TIME: 1100

DEPTH: .00 METERS, TIDE:
NARRATIVE: NONE

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001 /PH.....	4.9	
2: 006 /CONDUCTIVITY.....	0.0748	MMHO/CM
3: 007 /COLOR.....	5.	WAVE LENG.
4: 022 /MAGNESIUM (TOTAL).....	0.61	MG/L
5: 023 /CARBON, TOTAL ORGANIC (TOC)...	3.1	MG/L
6: 026 /NITRATE-N (NO3-N).....	0.12	MG/L
7: 030 /SULPHATE (SO4).....	9.30	MG/L
8: 035 /SODIUM.....	8.10	MG/L
9: 036 /CALCIUM (TOTAL).....	2.25	MG/L
10: 044 /ARSENIC (TOTAL).....	LO.05	MG/L
11: 049 /IRON (TOTAL).....	0.12	MG/L
12: 082 /ORTHO PHOSPHATE PHOSPHORUS....	LO.005	MG/L
13: 084 /PHOSPHATE PHOSPHORUS TOTAL....	0.015	MG/L
14: 128 /ACIDITY, TOTAL.....	4.7	MG/L
15: 129 /NITROGEN, TOTAL KJELDAHL.....	0.32	MG/L
16: 160 /MANGANESE (TOTAL).....	0.21	MG/L
17: 161 /CHLORIDE.....	13.2	PPM
18: 162 /ALUMINUM (TOTAL).....	0.07	MG/L
19: 237 /COBALT (CO)	LO.01	MG/L
20: 259 /POTASSIUM.....	0.44	MG/L
21: 318 /GRAN ALKALINITY	-6.8	UEQ/L

* 87JM098 - JOHN MACHELL

STATUS AS OF JAN 29, 1988 *

REGISTERED ON: SEP 24, 1987; BY :BOB G

LOCATOR: HOLLAN02/HOLLAND BROOK

INFLOW TO SOLDIER LAKE

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259

84,82,63,26,318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 24/ 9/87 (SEP 24, 1987), TIME: 1100, FREQ: 1

SAMPLING ENDED, DATE: 24/ 9/87 (SEP 24, 1987), TIME: 1100

DEPTH: .00 METERS, TIDE:

NARRATIVE: NONE

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....		6.7	
2:	006 /CONDUCTIVITY.....		0.162	MMHO/CM
3:	007 /COLOR.....		*630 L40*	WAVE LNG.
4:	022 /MAGNESIUM (TOTAL).....		0.96	MG/L
5:	023 /CARBON, TOTAL ORGANIC (TOC)...		5.6	MG/L
6:	026 /NITRATE-N (NO3-N).....		0.03	MG/L
7:	030 /SULPHATE (SO4).....		11.1	MG/L
8:	035 /SODIUM.....		20.1	MG/L
9:	036 /CALCIUM (TOTAL).....		5.57	MG/L
10:	044 /ARSENIC (TOTAL).....		0.11	MG/L
11:	049 /IRON (TOTAL).....		0.28	MG/L
12:	082 /ORTHO PHOSPHATE PHOSPHORUS....	L0.005		MG/L
13:	084 /PHOSPHATE PHOSPHORUS TOTAL....	0.025		MG/L
14:	128 /ACIDITY, TOTAL.....	4.3		MG/L
15:	129 /NITROGEN, TOTAL KJELDAHL.....	0.51		MG/L
16:	160 /MANGANESE (TOTAL).....	0.03		MG/L
17:	161 /CHLORIDE.....	34.0		PPM
18:	162 /ALUMINUM (TOTAL).....	L0.025		MG/L
19:	237 /COBALT (CO)	L0.01		MG/L
20:	259 /POTASSIUM.....	0.63		MG/L
21:	318 /GRAN ALKALINITY	122.		UEQ/L

* 87JM089 - JOHN MACHELL STATUS AS OF JAN 29, 1988 *

REGISTERED ON: SEP 24, 1987, BY :BOB G

LOCATOR: JOHNSN05/JOHNSON RIVER

INFLOW TO SOLDIER LAKE

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
84,82,63,26,318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN: DATE: 24/ 9/87 (SEP 24, 1987); TIME: 1100, FREQ: 1
SAMPLING ENDED: DATE: 24/ 9/87 (SEP 24, 1987); TIME: 1100

DEPTH: .00 METERS; TIDE:
NARRATIVE: NONE

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	4.2	
2: 006 /CONDUCTIVITY.....	0.1065	MMHO/CM
3: 007 /COLOR.....	100.	WAVE LNG.
4: 022 /MAGNESIUM (TOTAL).....	0.95	MG/L
5: 023 /CARBON, TOTAL ORGANIC (TOC)...	11.1	MG/L
6: 026 /NITRATE-N (NO3-N).....	0.04	MG/L
7: 030 /SULPHATE (SO4).....	19.7	MG/L
8: 035 /SODIUM.....	8.93	MG/L
9: 036 /CALCIUM (TOTAL).....	2.50	MG/L
10: 044 /ARSENIC (TOTAL).....	LO.05	MG/L
11: 049 /IRON (TOTAL).....	0.45	MG/L
12: 082 /ORTHO PHOSPHATE PHOSPHORUS....	LO.005	MG/L
13: 084 /PHOSPHATE PHOSPHORUS TOTAL....	0.17	MG/L
14: 129 /NITROGEN, TOTAL KJELDAHL.....	0.58	MG/L
15: 160 /MANGANESE (TOTAL).....	0.36	MG/L
16: 161 /CHLORIDE.....	15.2	PPM
17: 162 /ALUMINUM (TOTAL).....	0.49	MG/L
18: 237 /COBALT (CO)	LO.01	MG/L
19: 259 /POTASSIUM.....	0.52	MG/L

* 87JM090 - JOHN KACHELL STATUS AS OF JAN 11, 1988 *

REGISTERED ON: SEP 24, 1987, BY :BOB G

LOCATOR: BENBRK13/BENNERY BROOK

BLACK BRK. OLIDHAM

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,23,49,160,162
259,128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 24/ 9/87 (SEP 24, 1987), TIME: 1100, FREQ: 1
SAMPLING ENDED, DATE: 24/ 9/87 (SEP 24, 1987), TIME: 1100

DEPTH: .00 METERS, TIDE:
NARRATIVE: NONE

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....		4.1	
2:	006 /CONDUCTIVITY.....		0.0833	MMHO/CM
3:	007 /COLOR.....		60.	WAVE LNG.
4:	022 /MAGNESIUM (TOTAL).....		0.96	MG/L
5:	023 /CARBON, TOTAL ORGANIC (TOC)...		7.9	MG/L
6:	030 /SULPHATE (SO4).....		20.8	MG/L
7:	035 /SODIUM.....		2.20	MG/L
8:	036 /CALCIUM (TOTAL).....		2.44	MG/L
9:	044 /ARSENIC (TOTAL).....		0.05	MG/L
10:	049 /IRON (TOTAL).....		0.44	MG/L
11:	128 /ACIDITY, TOTAL.....		14.	MG/L
12:	160 /MANGANESE (TOTAL).....		0.21	MG/L
13:	161 /CHLORIDE.....		13.5	PPM
14:	162 /ALUMINUM (TOTAL).....		0.50	MG/L
15:	237 /COBALT (CO)	L0.01		MG/L
16:	259 /POTASSIUM.....		0.22	MG/L

 * BBJM001 - JOHN MACHELL STATUS AS OF APR 21, 1988 *

REGISTERED ON: MAR 7, 1988, BY :BOB G

LOCATOR: AIRPOR02/HALIFAX INTERNATIONAL AIRPORT
 MAIN DSCH AT OLD GUYSB TO SALMON R PROV: NS

NORMAL ANALYSIS: 1,6,7,36,44,259,35,22,49,162,160,30,161
 54,23,128,117

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 7/ 3/88 (MAR 7, 1988), TIME: 1100, FREQ: 1
 SAMPLING ENDED, DATE: 7/ 3/88 (MAR 7, 1988), TIME: 1100

DEPTH: .00 METERS, TIDE:

NARRATIVE: HIGH IN SOLIDS, APPEARS TO BE LIME
 SLUDGE CARRY THROUGH.

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001 /PH.....	6.096	
2: 006 /CONDUCTIVITY.....	1.61	MMHO/CM
3: 007 /COLOR.....	"G30 L40"	WAVE LNG.
4: 022 /MAGNESIUM (TOTAL).....	24.3	MG/L
5: 023 /CARBON, TOTAL ORGANIC (TOC)...	2.2	MG/L
6: 030 /SULPHATE (SO4).....	907.	MG/L
7: 035 /SODIUM.....	38.7	MG/L
8: 036 /CALCIUM (TOTAL).....	310.	MG/L
9: 044 /ARSENIC (TOTAL).....	0.44	MG/L
10: 049 /IRON (TOTAL).....	390.	MG/L
11: 054 /ZINC (TOTAL).....	0.48	MG/L
12: 117 /FLOW.....	.657	CU.FT./SEC
13: 128 /ACIDITY, TOTAL.....	22.	MG/L
14: 160 /MANGANESE (TOTAL).....	0.23	MG/L
15: 161 /CHLORIDE.....	58.7	PFM
16: 162 /ALUMINUM (TOTAL).....	85.	MG/L
17: 259 /POTASSIUM.....	1.60	MG/L

* 88JM007 - JOHN MACHELL STATUS AS OF APR 21, 1988 *

REGISTERED ON: MAR 7, 1988, BY :BOB G

LOCATOR: BENBRK13/BENNERY BROOK

BLACK BRK. OLIHAM

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,44,259,35,22,49,162,160,30,161
54,23,128,117

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 7/ 3/88 (MAR 7, 1988), TIME: 1100, FREQ: 1
SAMPLING ENDED, DATE: 7/ 3/88 (MAR 7, 1988), TIME: 1100

DEPTH: .00 METERS, TIDE:

NARRATIVE: NONE

54,128,117

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	4.373	
2: 006 /CONDUCTIVITY.....	0.0443	MMHO/CM
3: 007 /COLOR.....	"650 L60"	WAVE LNG.
4: 022 /MAGNESIUM (TOTAL).....	0.61	MG/L
5: 023 /CARBON, TOTAL ORGANIC (TOC)...	5.3	MG/L
6: 030 /SULPHATE (SO4).....	9.19	MG/L
7: 035 /SODIUM.....	1.80	MG/L
8: 036 /CALCIUM (TOTAL).....	1.67	MG/L
9: 044 /ARSENIC (TOTAL).....	LO.05	MG/L
10: 049 /IRON (TOTAL).....	0.34	MG/L
11: 054 /ZINC (TOTAL).....	0.01	MG/L
12: 117 /FLOW.....	5.67	CU.FT./SEC
13: 128 /ACIDITY, TOTAL.....	9.	MG/L
14: 160 /MANGANESE (TOTAL).....	LO.01	MG/L
15: 161 /CHLORIDE.....	2.78	PPM
16: 162 /ALUMINUM (TOTAL).....	0.35	MG/L
17: 259 /POTASSIUM.....	0.23	MG/L

* 88JMO10 - JOHN MACHELL STATUS AS OF APR 13, 1988 *

REGISTERED ON: MAR 8, 1988; BY :BOB G

LOCATOR: SAMRIVOS/SALMON RIVER, HALIFAX COUNTY.

TOPO MAP 11 D/14, MILITARY GRID-682566.

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,44,259,35,22,49,162,160,30,161
54,23,318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN; DATE: 8/ 3/88 (MAR 8, 1988); TIME: 1100; FREQ: 1
SAMPLING ENDED; DATE: 8/ 3/88 (MAR 8, 1988); TIME: 1100

DEPTH: .00 METERS; TIDE:

NARRATIVE:

54,84,82,63,26,318

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	4.532	
2: 006 /CONDUCTIVITY.....	0.0425	MMHO/CM
3: 007 /COLOR.....	50.	WAVE LNG.
4: 022 /MAGNESIUM (TOTAL).....	0.49	MG/L
5: 030 /SULPHATE (SO4).....	6.53	MG/L
6: 035 /SODIUM.....	2.50	MG/L
7: 036 /CALCIUM (TOTAL).....	1.51	MG/L
8: 044 /ARSENIC (TOTAL).....	LO.05	MG/L
9: 049 /IRON (TOTAL).....	0.15	MG/L
10: 054 /ZINC (TOTAL).....	LO.01	MG/L
11: 160 /MANGANESE (TOTAL).....	0.02	MG/L
12: 161 /CHLORIDE.....	2.92	PPM
13: 162 /ALUMINUM (TOTAL).....	0.27	MG/L
14: 259 /POTASSIUM.....	0.20	MG/L
15: 318 /GRAN ALKALINITY	"-26.8"	UEQ/L

* 8BJM011 - JOHN MACHELL STATUS AS OF APR 21, 1988 *

REGISTERED ON: MAR 9, 1988, BY :BOB G

LOCATOR: MACKAY01/MACKAY LAKE

LAT 44 50 40 LONG 63 27 40

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,44,259,35,22,49,162,160,30,161
54,23

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 9/ 3/88 (MAR 9, 1988), TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 9/ 3/88 (MAR 9, 1988), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE: ICE COVER

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	4.916	
2: 006 /CONDUCTIVITY.....	0.0506	MMHO/CM
3: 007 /COLOR.....	50.	WAVE LNG.
4: 022 /MAGNESIUM (TOTAL).....	0.48	MG/L
5: 023 /CARBON, TOTAL ORGANIC (TOC)...	5.5	MG/L
6: 030 /SULPHATE (SO4).....	4.15	MG/L
7: 035 /SODIUM.....	6.01	MG/L
8: 036 /CALCIUM (TOTAL).....	1.71	MG/L
9: 044 /ARSENIC (TOTAL).....	LO.05	MG/L
10: 049 /IRON (TOTAL).....	0.18	MG/L
11: 054 /ZINC (TOTAL).....	LO.01	MG/L
12: 160 /MANGANESE (TOTAL).....	0.11	MG/L
13: 161 /CHLORIDE.....	9.61	PPM
14: 162 /ALUMINUM (TOTAL).....	0.11	MG/L
15: 259 /POTASSIUM.....	0.18	MG/L

* 88JM013 - JOHN MACHELL STATUS AS OF APR 21, 1988 *

REGISTERED ON: MAR 9, 1988, BY :BOB G

LOCATOR: FISHHK02/FISH HAWK NEST RIVER

BLW MACKAY LAT 44 50 0 LONG 63 27 30

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,44,259,35,22,49,162,160,30,161
54,23,318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 9/ 3/88 (MAR 9, 1988), TIME: 1000, FREQ: 1

SAMPLING ENDED, DATE: 9/ 3/88 (MAR 9, 1988), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE: NONE

54,84,82,63,26,128

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	4.567	
2: 006 /CONDUCTIVITY.....	0.0526	MMHO/CM
3: 007 /COLOR.....	"650 L60"	WAVE LNG.
4: 022 /MAGNESIUM (TOTAL).....	0.57	MG/L
5: 023 /CARBON, TOTAL ORGANIC (TOC)...	5.2	MG/L
6: 030 /SULPHATE (SO4).....	10.9	MG/L
7: 035 /SODIUM.....	3.48	MG/L
8: 036 /CALCIUM (TOTAL).....	2.84	MG/L
9: 044 /ARSENIC (TOTAL).....	LO.05	MG/L
10: 049 /IRON (TOTAL).....	0.22	MG/L
11: 054 /ZINC (TOTAL).....	LO.01	MG/L
12: 160 /MANGANESE (TOTAL).....	0.07	MG/L
13: 161 /CHLORIDE.....	4.84	PPM
14: 162 /ALUMINUM (TOTAL).....	0.27	MG/L
15: 259 /POTASSIUM.....	0.24	MG/L
16: 318 /GRAN ALKALINITY	"-30.9"	UEQ/L

* 88JM016 - JOHN MACHELL STATUS AS OF APR 21, 1988 *

REGISTERED ON: MAR 9, 1988; BY :BOB G

LOCATOR: HOLLAND/HOLLAND BROOK, MG 45 64 0 49 66 05

ZONE 20 OUTLET TO PREEPER POND

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,44,259,35,22,49,162,160,30,161
54,23,128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 9/ 3/88 (MAR 9, 1988), TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 9/ 3/88 (MAR 9, 1988), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE: NONE

54,84,82,63,26,318

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	6.179	
2: 006 /CONDUCTIVITY.....	0.414	MMHO/CM
3: 007 /COLOR.....	5.	WAVE LNG.
4: 022 /MAGNESIUM (TOTAL).....	1.38	MG/L
5: 023 /CARBON, TOTAL ORGANIC (TOC)...	1.9	MG/L
6: 030 /SULPHATE (SO4).....	14.3	MG/L
7: 035 /SODIUM.....	65.4	MG/L
8: 036 /CALCIUM (TOTAL).....	11.6	MG/L
9: 044 /ARSENIC (TOTAL).....	10.05	MG/L
10: 049 /IRON (TOTAL).....	0.14	MG/L
11: 054 /ZINC (TOTAL).....	10.01	MG/L
12: 128 /ACIDITY, TOTAL.....	3.	MG/L
13: 160 /MANGANESE (TOTAL).....	0.31	MG/L
14: 161 /CHLORIDE.....	90.2	PPM
15: 162 /ALUMINUM (TOTAL).....	0.14	MG/L
16: 259 /POTASSIUM.....	0.82	MG/L

* 8BJM018 - JOHN KACHELL STATUS AS OF APR 7, 1988 *

REGISTERED ON: MAR 10, 1988, BY :BOB G

LOCATOR: AIRPOR05/HALIFAX INTERNATIONAL AIRPORT
EFFL.2ND STAGE TREATMENT

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 10/ 3/88 (MAR 10, 1988), TIME: 1400, FREQ: 1
SAMPLING ENDED, DATE: 10/ 3/88 (MAR 10, 1988), TIME: 1400

DEPTH: .00 METERS, TIDE:

NARRATIVE:

54,84,82,63,26,117

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....		12.427	
2:	022 /MAGNESIUM (TOTAL).....		4.92	MG/L
3:	035 /SODIUM.....		42.6	MG/L
4:	036 /CALCIUM (TOTAL).....		664.	MG/L
5:	044 /ARSENIC (TOTAL).....		LO.05	MG/L
6:	049 /IRON (TOTAL).....		15.3	MG/L
7:	054 /ZINC (TOTAL).....		0.14	MG/L
8:	128 /ACIDITY, TOTAL.....		*HIGH PH*	MG/L
9:	160 /MANGANESE (TOTAL).....		0.59	MG/L
10:	162 /ALUMINUM (TOTAL).....		3.90	MG/L
11:	259 /POTASSIUM.....		1.55	MG/L

* 88JM019 - JOHN MACHELL STATUS AS OF APR 7, 1988 *

REGISTERED ON: MAR 10, 1988, BY :RUB G

LOCATOR: AIRFOR00/HALIFAX INTERNATIONAL AIRPORT
GENERAL

PROV: NS

NORMAL ANALYSIS: 1,1F,5,22,36,44,46,47,48,49,51,54,128
159,160,162,202,203,207,205,237

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 10/ 3/88 (MAR 10, 1988), TIME: 1500, FREQ: 1
SAMPLING ENDED, DATE: 10/ 3/88 (MAR 10, 1988), TIME: 1500

DEPTH: .00 METERS, TIDE:

NARRATIVE: SEEPAGE FROM #2 SETTLING POND TO
MC DOWELL BROOK.

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....		12.632	
2:	022 /MAGNESIUM (TOTAL).....		1.90	MG/L
3:	035 /SODIUM.....		39.2	MG/L
4:	036 /CALCIUM (TOTAL).....		803.	MG/L
5:	044 /ARSENIC (TOTAL).....		10.05	MG/L
6:	049 /IRON (TOTAL).....		10.4	MG/L
7:	054 /ZINC (TOTAL).....		0.13	MG/L
8:	128 /ACIDITY, TOTAL.....		"HIGH PH"	MG/L
9:	160 /MANGANESE (TOTAL).....		0.31	MG/L
10:	162 /ALUMINUM (TOTAL).....		2.57	MG/L
11:	259 /POTASSIUM.....		1.62	MG/L

* 88JM023 - JOHN MACHELL STATUS AS OF MAR 30, 1988 *

REGISTERED ON: MAR 14, 1988, BY :BOB G

LOCATOR: AIRPOR05/HALIFAX INTERNATIONAL AIRPORT
EFFL.2ND STAGE TREATMENT

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,35,22,161,30,23,49,160,162,259
128

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 14/ 3/88 (MAR 14, 1988), TIME: 1430, FREQ: 1
SAMPLING ENDED, DATE: 14/ 3/88 (MAR 14, 1988), TIME: 1430

DEPTH: .00 METERS, TIDE:

NARRATIVE: \$

54,84,82,63,26,128

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 022 /MAGNESIUM (TOTAL).....	0.60	MG/L
2: 035 /SODIUM.....	54.3	MG/L
3: 036 /CALCIUM (TOTAL).....	400.	MG/L
4: 044 /ARSENIC (TOTAL).....	LO.05	MG/L
5: 046 /CADMIUM (TOTAL).....	LO.01	MG/L
6: 048 /COPPER (TOTAL).....	0.04	MG/L
7: 049 /IRON (TOTAL).....	1.19	MG/L
8: 054 /ZINC (TOTAL).....	LO.01	MG/L
9: 160 /MANGANESE (TOTAL).....	LO.01	MG/L
10: 162 /ALUMINUM (TOTAL).....	1.65	MG/L
11: 259 /POTASSIUM.....	1.40	MG/L

* 88JMO24 - JOHN MACHELL STATUS AS OF MAR 30, 1988 *

REGISTERED ON: MAR 14, 1988, BY :BOB G

LOCATOR: AIRPOROO/HALIFAX INTERNATIONAL AIRPORT
GENERAL

PROV: NS

NORMAL ANALYSIS: 1,1F,5,22,36,44,46,47,48,49,51,54,128
159,160,162,202,203,207,205,237

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 14/ 3/88 (MAR 14, 1988), TIME: 1430, FREQ: 1
SAMPLING ENDED, DATE: 14/ 3/88 (MAR 14, 1988), TIME: 1430

DEPTH: .00 METERS, TIDE:

NARRATIVE: SEEPAGE FROM #2 SETTLING POND,
TO MC DOWELL BROOK.

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	10.23		
2:	022 /MAGNESIUM (TOTAL).....	29.4		MG/L
3:	035 /SODIUM.....	53.3		MG/L
4:	036 /CALCIUM (TOTAL).....	484.		MG/L
5:	044 /ARSENIC (TOTAL).....	0.3		MG/L
6:	046 /CADMIUM (TOTAL).....	0.02		MG/L
7:	048 /COPPER (TOTAL).....	0.34		MG/L
8:	049 /IRON (TOTAL).....	172.		MG/L
9:	054 /ZINC (TOTAL).....	1.36		MG/L
10:	160 /MANGANESE (TOTAL).....	3.65		MG/L
11:	162 /ALUMINUM (TOTAL).....	40.6		MG/L
12:	259 /POTASSIUM.....	1.48		MG/L

* 88JM035 - JOHN MACHELL STATUS AS OF APR 13, 1988 *

REGISTERED ON: MAR 17, 1988, BY :BOB G

LOCATOR: SAMRIV05/SALMON RIVER, HALIFAX COUNTY.

TOPO MAP 11 D/14, MILITARY GRID-682566.

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,44,259,35,22,49,162,160,30,161
54,23,318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 17/ 3/88 (MAR 17, 1988), TIME: 0, FREQ: 1
SAMPLING ENDED, DATE: 17/ 3/88 (MAR 17, 1988), TIME: 0

DEPTH: .00 METERS, TIDE:
NARRATIVE:

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	4.566	
2: 006 /CONDUCTIVITY.....	0.0378	MMHO/CM
3: 007 /COLOR.....	40.	WAVE LNG.
4: 022 /MAGNESIUM (TOTAL).....	0.43	MG/L
5: 030 /SULPHATE (SO4).....	5.81	MG/L
6: 035 /SODIUM.....	2.48	MG/L
7: 036 /CALCIUM (TOTAL).....	1.16	MG/L
8: 044 /ARSENIC (TOTAL).....	10.05	MG/L
9: 049 /IRON (TOTAL).....	0.15	MG/L
10: 054 /ZINC (TOTAL).....	10.01	MG/L
11: 160 /MANGANESE (TOTAL).....	0.08	MG/L
12: 161 /CHLORIDE.....	5.45	PPM
13: 162 /ALUMINUM (TOTAL).....	0.21	MG/L
14: 259 /POTASSIUM.....	0.20	MG/L
15: 318 /GRAN ALKALINITY	-33.4	UEQ/L

* 88JM036 - JOHN MACHELL STATUS AS OF APR 21, 1988 *

REGISTERED ON: MAR 17, 1988, BY :BOB G

LOCATOR: JOHNSN05/JOHNSON RIVER

INFLOW TO SOLDIER LAKE

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,44,259,35,22,49,162,160,30,161
54,23,318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN: DATE: 17/ 3/88 (MAR 17, 1988); TIME: 0, FREQ: 1
SAMPLING ENDED: DATE: 17/ 3/88 (MAR 17, 1988); TIME: 0

DEPTH: .00 METERS; TIDE:

NARRATIVE:

318

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	4.498	
2: 006 /CONDUCTIVITY.....	0.149	MMHO/CM
3: 007 /COLOR.....	50.	WAVE LNG.
4: 022 /MAGNESIUM (TOTAL).....	0.84	MG/L
5: 023 /CARBON, TOTAL ORGANIC (TOC)...	4.2	MG/L
6: 030 /SULPHATE (SO4).....	12.9	MG/L
7: 035 /SODIUM.....	17.9	MG/L
8: 036 /CALCIUM (TOTAL).....	3.81	MG/L
9: 044 /ARSENIC (TOTAL).....	LO.05	MG/L
10: 049 /IRON (TOTAL).....	0.29	MG/L
11: 054 /ZINC (TOTAL).....	LO.01	MG/L
12: 160 /MANGANESE (TOTAL).....	0.26	MG/L
13: 161 /CHLORIDE.....	25.5	PPM
14: 162 /ALUMINUM (TOTAL).....	0.49	MG/L
15: 259 /POTASSIUM.....	0.46	MG/L

* 88JM042 - JOHN MACHELL STATUS AS OF APR 21, 1988 *

REGISTERED ON: MAR 21, 1988, BY :BOB G

LOCATOR: FISHHK02/FISH HAWK NEST RIVER

BLW MACKAY LAT 44 50 0 LONG 63 27 30

PROV: NS

NORMAL ANALYSIS: 1,6,7,36,44,259,35,22,49,162,160,30,161
54,23,318

PROJECT CODE: 242/ENV. CONTROL FEDERAL FACILITIES

SAMPLING BEGAN, DATE: 21/ 3/88 (MAR 21, 1988), TIME: 1000, FREQ: 1

SAMPLING ENDED, DATE: 21/ 3/88 (MAR 21, 1988), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE:

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....		4.832	
2:	006 /CONDUCTIVITY.....		0.0609	MMHO/CM
3:	007 /COLOR.....		"650 L60"	WAVE LNG.
4:	022 /MAGNESIUM (TOTAL).....		0.58	MG/L
5:	023 /CARBON, TOTAL ORGANIC (TOC)...		5.7	MG/L
6:	030 /SULPHATE (SO4).....		11.8	MG/L
7:	035 /SODIUM.....		4.02	MG/L
8:	036 /CALCIUM (TOTAL).....		3.37	MG/L
9:	044 /ARSENIC (TOTAL).....		L0.05	MG/L
10:	049 /IRON (TOTAL).....		0.21	MG/L
11:	054 /ZINC (TOTAL).....		L0.01	MG/L
12:	160 /MANGANESE (TOTAL).....		0.16	MG/L
13:	161 /CHLORIDE.....		5.03	PPM
14:	162 /ALUMINUM (TOTAL).....		0.16	MG/L
15:	259 /POTASSIUM.....		0.29	MG/L
16:	318 /GRAN ALKALINITY		"-2.0"	UEQ/L

HERMES WOODSIDE

* 88PH007 - PHIL HENNEBURY STATUS AS OF MAR 23, 1988 *

REGISTERED ON: FEB 23, 1988, BY :BOB G

LOCATOR: HERMES01/HERMES WOODSIDE
FINAL EFFLUENT PROV: NS

NORMAL ANALYSIS: 1,29,48,51,54,159,20,1
PROJECT CODE: 233/COAL & PEAT MINING METALLURGICAL

SAMPLING BEGAN, DATE: 23/ 2/88 (FEB 23, 1988), TIME: 1030, FREQ: 1
SAMPLING ENDED, DATE: 23/ 2/88 (FEB 23, 1988), TIME: 1030

DEPTH: .00 METERS, TIDE:

NARRATIVE: WILL BE CLOSING DOWN PLATING OPERATION I
IN APPROXIMATELY 6 MONTHS.FLOW-5.5L/4.5S

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....		10.2	
2:	001F/PH.....		10.5	
3:	020 /SUSPENDED SOLIDS (SS).....		11.	MG/L
4:	029 /CYANIDE (CN).....		0.09	MG/L
5:	029H/CYANIDE(OXIDIZABLE)		L0.02	MG/L
6:	046 /CADMIUM (TOTAL).....		L0.01	MG/L
7:	047 /CHROMIUM (TOTAL).....		0.17	MG/L
8:	048 /COPPER (TOTAL).....		0.06	MG/L
9:	049 /IRON (TOTAL).....		1.15	MG/L
10:	051 /LEAD (TOTAL).....		0.49	MG/L
11:	054 /ZINC (TOTAL).....		2.76	MG/L
12:	159 /NICKEL (TOTAL).....		0.08	MG/L
13:	162 /ALUMINUM (TOTAL).....		0.51	MG/L



IMPERIAL OIL REFINERY

MEMORANDUM NOTE DE SERVICE

DATE

February 15, 1988

FROM: R. Gaudet
 DE: Water Pollution Control Division
 Air and Water Branch
 Environment Canada, Atlantic Region

Our file Notre référence

4810-37/J140

TO: P. Hennebury
 A: Head, Water Pollution Control Division
 Air and Water Branch
 Environment Canada, Atlantic Region

Your file Votre référence

SUBJECT:
 SUJET:

Compliance Audit, Imperial Oil Refinery, Dartmouth, N. S.

A compliance audit was conducted by Ian McLeod and the writer on December 8 and 9, 1987. Samples were taken in accordance with the "Petroleum Refinery Effluent Regulations and Guidelines" from four (4) locations:

- (1) A.P.I. Separator
- (2) B.I.O.X.
- (3) South Circular Separator
- (4) Salt Water Intake

The company was within the required limits for the regulated parameters which include phenols, TSM, NH₃, sulfide, pH, oil and grease. However, the 96 hour flow through bioassay conducted on the combined A.P.I. and Biox was acutely lethal to fish with 100% mortality in 65 hours at an 80% concentration. Duplicate samples were given to the company for laboratory comparison purposes. The difficulty of splitting oil refinery samples, especially oil and grease, was conveyed to the environmental co-ordinator Rose Collicult.

David Vaughan who conducted the bioassay was of the opinion that the oil and grease was the probable cause of mortality.

Tables indicating the actual and allowable discharge values accompany this report. Analytical values, flows, reference crude rate and bioassay reports are also attached. These can also be obtained from the LMS computer under lab No. 87JK014 to 87JK018 inclusive.


 R. Gaudet

RG/bb

Enclosure

cc: A. MacKinnon
 I. MacLeod
 D. Hiltz

COMPLIANCE SURVEY FOR GUIDELINE REFINERIES
=====

COMPANY NAME: ESSO PETROLEUM CANADA
RCR (103m3/d): 11.6
EFFLUENT (MALPD): 16.6

COMBINED

PARAMETER	CONCENTRATION (mg/L)	ACTUAL DEPOSIT (kg/103m3/d)	AUTHORIZED DEPOSIT (kg/103m3/d)
Oil & Grease	21.1	30.19	31.38
Phenols	0.2	0.30	3.14
Sulphides	0.2	0.21	1.71
NH3-N	0.9	1.29	22.82
TSM	17.5	25.04	68.47
ori	(units) 7.4	(units) 7.4	(units) 6.0-9.5

DATE: DECEMBER 8-9/1987
DILUTION(% EFF): 80
TOXICITY: Acutely lethal.

COMPLIANCE SURVEY FOR GUIDELINE REFINERIES
 =====

COMPANY NAME: ESSO PETROLEUM CANADA
 RCR (103m3/d): 11.6
 EFFLUENT (MALPD): 4.4

API SEPARATOR

PARAMETER	CONCENTRATION (mg/L)	ACTUAL DEPOSIT (kg/103m3/d)	AUTHORIZED DEPOSIT (kg/103m3/d)
Oil & Grease	27.0	10.24	31.38
Phenols	0.5	0.19	3.14
Sulphides	0.2	0.06	1.71
NH3-N	2.8	1.06	22.82
TSM	40.0	15.17	68.47
pH	(units) 7.3	(units) 7.3	(units) 6.0-9.5

DATE: DECEMBER 8-9/1987
 DILUTION(% EFF):
 TOXICITY:

1027/055

COMPLIANCE SURVEY FOR GUIDELINE REFINERIES
=====

COMPANY NAME: ESSO PETROLEUM CANADA
RCR (103m3/d): 11.6
EFFLUENT (MALPD): 12.2

Biox

PARAMETER	CONCENTRATION	ACTUAL DEPOSIT	AUTHORIZED DEPOSIT
	(mg/L)	(kg/103m3/d)	(kg/103m3/d)
Dil & Grease	19.0	19.98	31.38
Phenols	0.1	0.09	3.14
Sulphides	0.2	0.16	1.71
NH3-N	0.2	0.19	22.82
TSM	10.0	10.52	68.47
	(units)	(units)	(units)
pH	7.5	7.5	6.0-9.5

DATE: DECEMBER 8-9/1987
DILUTION (% EFF):
TOXICITY:

LAB NUMBER(S): 7027/055

COMPLIANCE SURVEY FOR GUIDELINE REFINERIES
=====

COMPANY NAME: ESSO PETROLEUM CANADA
RCR (103m3/d): 11.6
EFFLUENT (MALPD): 143.7

SOUTH CIRCULAR SEPARATOR

PARAMETER	CONCENTRATION (mg/L)	ACTUAL DEPOSIT (kg/103m3/d)	AUTHORIZED DEPOSIT (kg/103m3/d)
Oil & Grease	7.0	86.72	31.38
Phenols	.0	0.15	3.14
Sulphides	0.2	1.86	1.71
NH3-N	0.2	1.86	22.82
TSM	5.0	61.94	68.47
pH	(units) 7.9	(units) 7.9	(units) 6.0-9.5

DATE: DECEMBER 8-9/1987
DILUTION(% EFF):
TOXICITY:

COMPLIANCE SURVEY FOR GUIDELINE REFINERIES
 =====

COMPANY NAME: ESSO PETROLEUM CANADA
 RCR (103m3/d): 11.6
 EFFLUENT (MALPD): 143.7

SALT WATER INTAKE

PARAMETER	CONCENTRATION	ACTUAL DEPOSIT	AUTHORIZED DEPOSIT
	(mg/L)	(kg/103m3/d)	(kg/103m3/d)
Oil & Grease	8.0	99.10	31.38
Phenols	.0	0.17	3.14
Sulphides	0.2	1.86	1.71
NH3-N	0.2	1.86	22.82
TSM	5.0	61.94	68.47
	(units)	(units)	(units)
pH	8.1	8.1	6.0-9.5

DATE: DECEMBER 8-9/1987
 DILUTION(% EFF):
 TOXICITY:

 * 87JK014 - S.K. (SUE) DAY STATUS AS OF JAN 21, 1988 *

REGISTERED ON: DEC 9, 1987, BY :BOB G

LOCATOR: IMPDAR01/IMPERIAL OIL REFINERY
 API OUTFALL

PROV: NS

NORMAL ANALYSIS: 1, 12, 13, 20, 26, 86

PROJECT CODE: 234/ENV. CONTROL CHEMICAL INDUSTRIES

SAMPLING BEGAN, DATE: 8/12/87 (DEC 8, 1987), TIME: 630, FREQ: 96

SAMPLING ENDED, DATE: 9/12/87 (DEC 9, 1987), TIME: 615

DEPTH: .00 METERS, TIDE:

NARRATIVE: REF. CRUDE RATE - 72.7

---- SAMPLE ANALYSIS ----

PARAMETER	VALUE	UNITS
1: 001 /PH.	6.8	
2: 001F/PH.	7.3	
3: 012 /PHENOLS.	0.500	MG/L
4: 013 /OIL & GREASE (PET. ETHER).	27.	MG/L
5: 020 /SUSPENDED SOLIDS (SS).	40.	MG/L
6: 028 /AMMONIA-N (NH3-N).	2.8	MG/L
7: 086 /SULFIDE.	0.15	MG/L
8: 158F/FLOW.	959257.	IMP G/DAY

oil + Grease =

 * B7JK015 - J.K. (SJE) DAY STATUS AS OF JAN 21, 1988 *

REGISTERED ON: DEC 9, 1987, BY :BOB G

LOCATOR: IMPDAR06/IMPERIAL OIL REFINERY
 FINAL EFFL BIOD TREATMENT PROV: NS

PROJECT CODE: 234/ENV. CONTROL CHEMICAL INDUSTRIES

SAMPLING BEGAN, DATE: 8/12/87 (DEC 8, 1987), TIME: 630, PRCO: 96

SAMPLING ENDED, DATE: 9/12/87 (DEC 9, 1987), TIME: 615

DEPTH: .00 METERS, TIDE:

NARRATIVE: REF. CRUDE RATE - 72.7

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE .....	.....	UNITS
1:	001 /PH.....		6.9		
2:	001F/PH.....		7.5		
3:	012 /PHENDLS.....		0.085		MG/L
4:	013 /OIL & GREASE (PET. ETHER).....		15.		MG/L
5:	020 /SUSPENDED SOLIDS (SS).....		10.		MG/L
6:	028 /AMMONIA-N (NH3-N).....		0.18		MG/L
7:	086 /SULFIDE.....		0.15		MG/L
8:	158F/FLOW.....		2689000.		IMP G/DAY

* 87JK016 - J.K. (SUE) DAY STATUS AS OF JAN 21, 1988 *

REGISTERED ON: DEC 9, 1987. BY :BOB S

LOCATOR: IMPDAR08/IMPERIAL OIL REFINERY
SOUTH CIRCULAR

AROV: NS

PROJECT CODE: 234/ENV. CONTROL CHEMICAL INDUSTRIES

SAMPLING BEGAN, DATE: 8/12/87 (DEC 8, 1987), TIME: 630, FREQ: 96

SAMPLING ENDED, DATE: 9/12/87 (DEC 9, 1987), TIME: 615

DEPTH: .00 METERS, TIDE:

NARRATIVE: REF. CRUDE RATE - 72.7

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	7.7	
2: 001F/PH.....	7.9	
3: 012 /PHENOLS.....	0.012	MG/L
4: 013 /OIL & GREASE (PET. ETHER).....	7.	MG/L
5: 020 /SUSPENDED SOLIDS (SS).....	LS.	MG/L
6: 028 /AMMONIA-N (NH3-N).....	0.15	MG/L
7: 066 /SULFIDE.....	0.15	MG/L
8: 420 /FLOW.....	143700000.	L/DAY

* 57JK017 - J.K. (SUE) DAY STATUS AS OF JAN 21, 1988 *

REGISTERED ON: DEC 9, 1987, BY :BOB S

LOCATOR: IMPDAR12/IMPERIAL OIL REFINERY
SALT WATER INTAKE

PROV: NS

PROJECT CODE: 234/ENV. CONTROL CHEMICAL INDUSTRIES

SAMPLING BEGAN, DATE: 8/12/87 (DEC 8, 1987), TIME: 630. FREQ: 95

SAMPLING ENDED, DATE: 9/12/87 (DEC 9, 1987), TIME: 615

DEPTH: .00 METERS, TIDE:

NARRATIVE: REF. CRUDE RATE - 72.7

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001 /PH.....	7.8	
2: 001F/PH.....	8.1	
3: 012 /PHENDLS.....	2.014	MG/L
4: 013 /OIL & GREASE (PET. ETHER).....	8.	MG/L
5: 020 /SUSPENDED SOLIDS (SS).....	15.	MG/L
6: 028 /AMMONIA-N (NH3-N).....	10.15	MG/L
7: 086 /SULFIDE.....	10.15	MG/L

* B7JK018 - J.K. (SJE) DAY STATUS AS OF JAN 21, 1982 *

REGISTERED ON: DEC 9, 1967. BY :BDB G

LOCATOR: IMPDAR13/IMPERIAL OIL REFINERY
FLOW PROPORTIONED COMBINED EFFLUENT PROVISIONS
PROJECT CODE: 234/ENV. CONTROL CHEMICAL INDUSTRIES

SAMPLING BEGAN, DATE: 8/12/87 (DEC 8, 1987), TIME: 1145. FREQ: .
SAMPLING ENDED, DATE: 8/12/87 (DEC 8, 1987), TIME: 1145

DEPTH: .00 METERS. TIDE:
NARRATIVE: REF. CRUDE RATE - 72.7

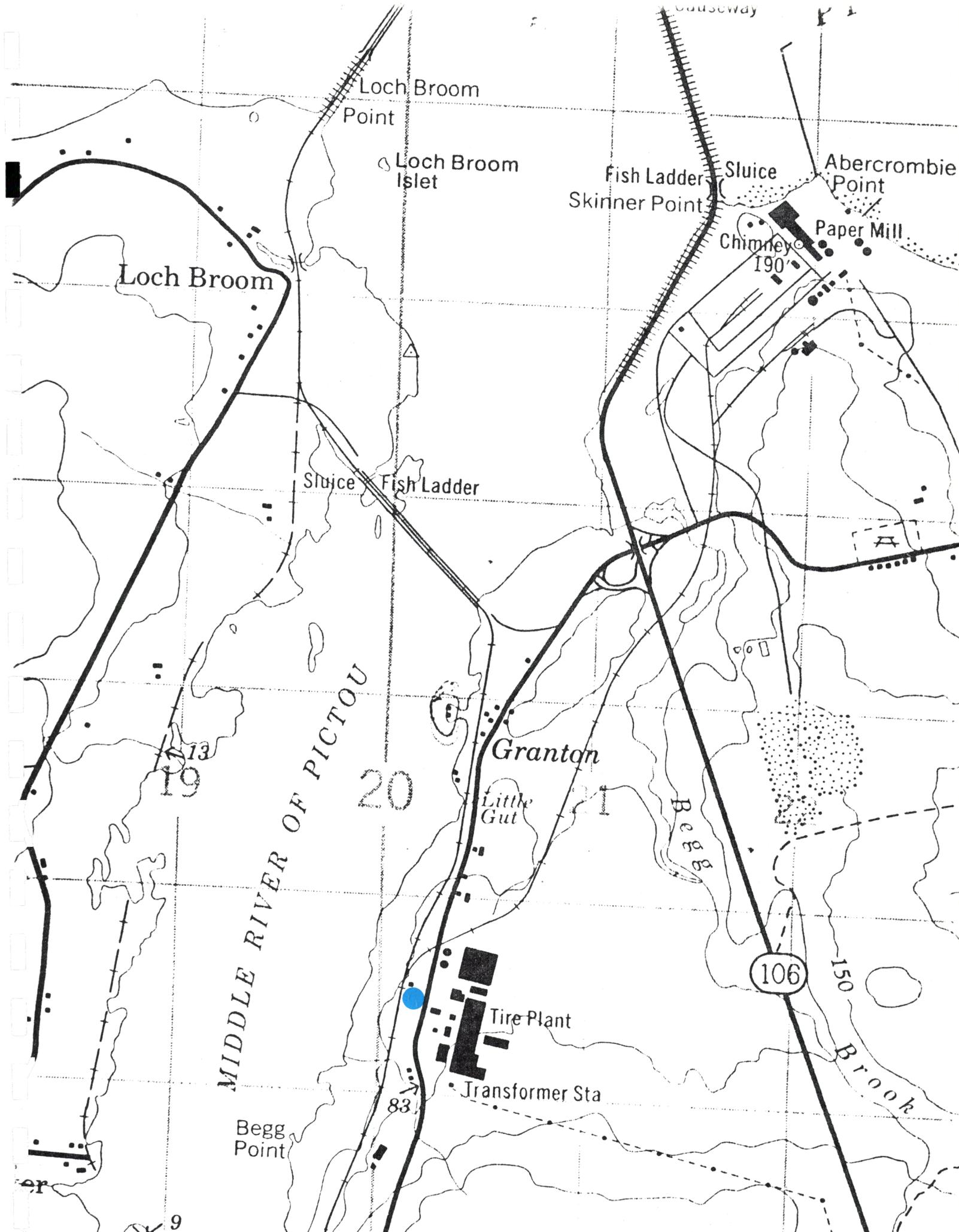
***** WARNING: THIS INFORMATION HAS NOT YET BEEN VERIFIED

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 158F/FLOW.....	13357399.	IMP G/DAY
2: 500 /BIOASSAY	TO BE COMPLETED	



MICHELIN TIRE (GRANTON)



* 87NS008 - NOVA SCOTIA STATUS AS OF JAN 11, 1988 *

REGISTERED ON: AUG 6, 1987, BY :NS

LOCATOR: MICGRA01/MICHELIN TIRE (GRANTON)
FINAL EFFLUENT

PROV: NS

NORMAL ANALYSIS: 1,2,18,20,48,54,162,49,13

PROJECT CODE: 265/LAB SUPPORT - PREV & CONTR WATER POLL

SAMPLING BEGAN, DATE: 5/ 8/87 (AUG 5, 1987), TIME: 915, FREQ: 25

SAMPLING ENDED, DATE: 5/ 8/87 (AUG 5, 1987), TIME: 1515

DEPTH: .00 METERS, TIDE:

NARRATIVE: SEND COPY TO PENNY.

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001F/PH.....	11.00	
2: 015 /BIOCHEM. OXYGEN DEMAND (BOD)..	16.	MG/L
3: 018 /SOLIDS, TOTAL (TS).....	640.	MG/L
4: 020 /SUSPENDED SOLIDS (SS).....	50.	MG/L
5: 022 /MAGNESIUM (TOTAL).....	2.37	MG/L
6: 048 /COPPER (TOTAL).....	0.06	MG/L
7: 049 /IRON (TOTAL).....	0.91	MG/L
8: 051 /LEAD (TOTAL).....	10.02	MG/L
9: 054 /ZINC (TOTAL).....	0.30	MG/L
10: 162 /ALUMINUM (TOTAL).....	3.98	MG/L
11: 237 /COBALT (CO)	3.38	MG/L
12: 500 /BIOASSAY	"DONE"	

A. MacKinnon, Head
Oil & Chemical Waste Section
Water Pollution Control Division
Air & Water Branch

J. Young
Project Biologist
Aquatic Toxicology Section
Laboratory Division

SECURITY - CLASSIFICATION - DE SÉCURITÉ

OUR FILE/VOTRE RÉFÉRENCE

4705-37/M235

YOUR FILE/VOTRE RÉFÉRENCE

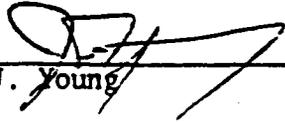
DATE

8 September 1987

SUBJECT
OBJETBIOASSAY RESULTS - MICHELIN, GRANTON, N. S.

On 5 August 1987, C. Bateman of NSDOE collected a sample of the final effluent (Lab Registration No. 87NS008) from the Michelin Tire plant at Granton, Nova Scotia. On 6 August 1987 a 96-hour static bioassay was started on the sample using rainbow trout fingerling. The test organisms died within 4 hours in the 100% and 56% concentrations. In the 32% concentration eighty percent of the fish died in 17 hours. The test fish survived in lower (i.e. 18% and 10%) concentrations throughout the bioassay. The 96-hour LC50 was 26.5%. The high pH value alone could be responsible for the observed mortality, but concern is indicated by the levels of cobalt (3.4 mg/L) and aluminum (4.0 mg/L).

A copy of the Bioassay Report Form is attached which provides additional details of the test.



J. Young

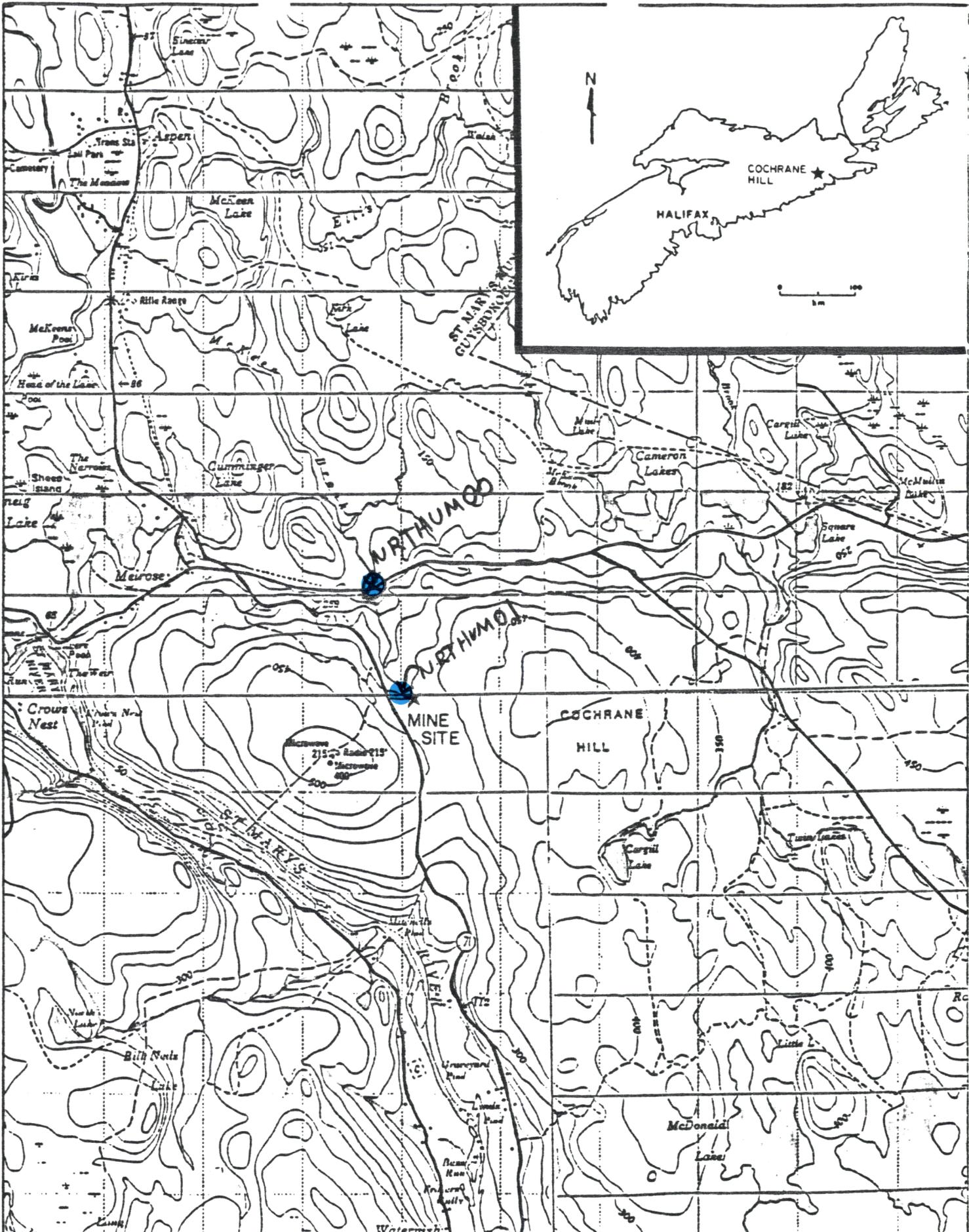
JY/ldl

Attachment (1)

cc: H. Samant
K. Doe
R. Parker
J. Turner, NSDOE

N

NORTHUMBERLAND MINES (COCHRANE HILL)



COCHRANE HILL MINE
 SITE LOCATION
 NORTHUMBERLAND

Scale: 1:50 000
 Date: 5/01/88
 Dwn. by: NCP
 Appd:

FIGURE 1



Jacques,
 Whitford and
 Associates Limited

 * B8RF001 - ROY PARKER STATUS AS OF APR 27, 1988 *

REGISTERED ON: JAN 21, 1988, BY :ANDRE

LOCATOR: NRTHUM00/NORTHUMBERLAND MINES
 GENERAL

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 21/ 1/88 (JAN 21, 1988), TIME: 1000, FREQ: 1
 SAMPLING ENDED, DATE: 21/ 1/88 (JAN 21, 1988), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE: PIT WATER DISCH. INTO SWAMP. SAMPLE IS FR
 OM SWAMP OUTLET (AT CULVERT)

---- SAMPLE ANALYSIS ----

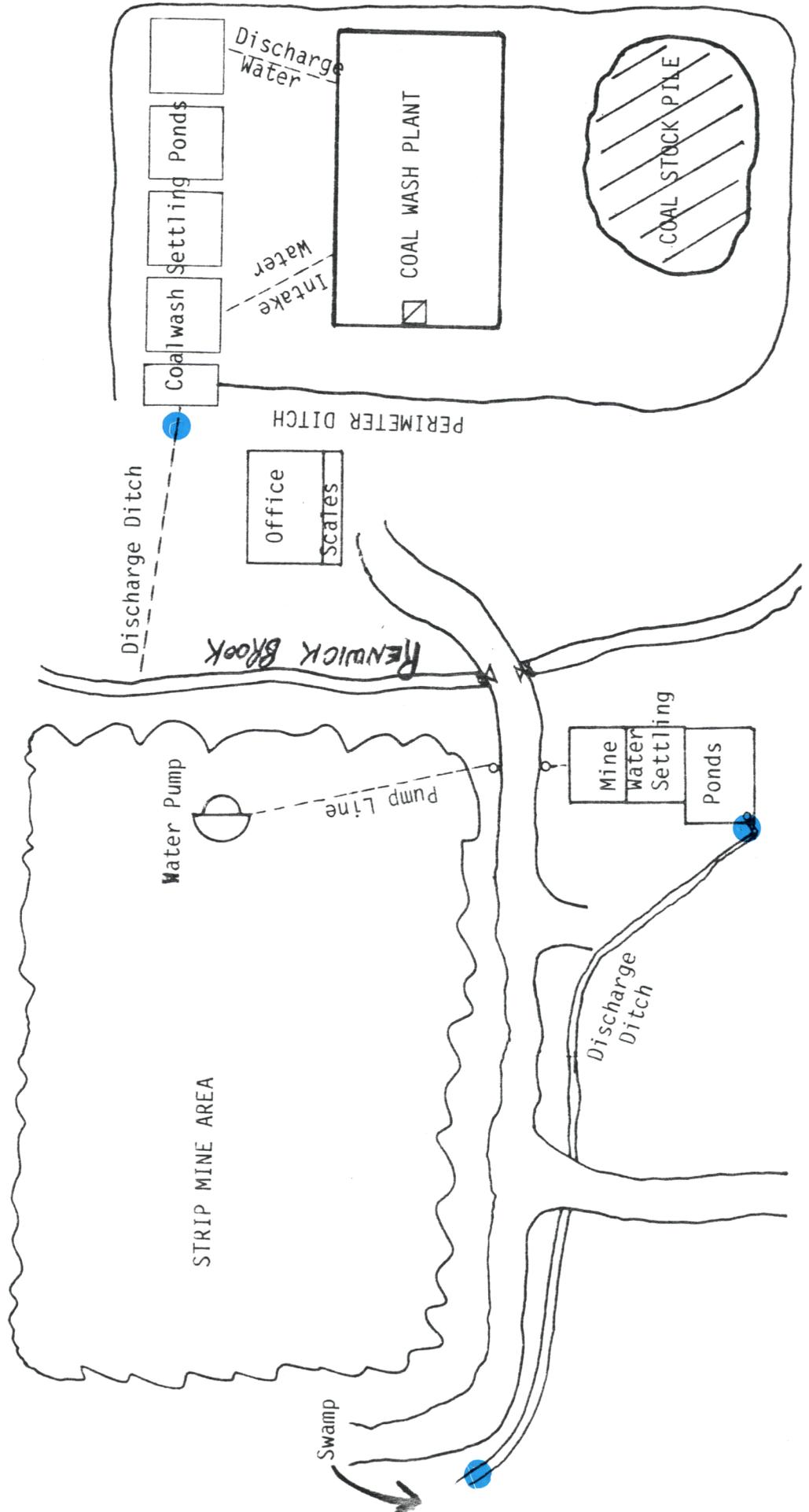
.....	PARAMETER .....	.....	VALUE .....	.....	UNITS
1:	001 /PH.....	.....	6.3	.....
2:	005 /HARDNESS.....	.....	180.	.....	MG/L
3:	020 /SUSPENDED SOLIDS (SS).....	.....	22.	.....	MG/L
4:	022 /MAGNESIUM (TOTAL).....	.....	2.32	.....	MG/L
5:	036 /CALCIUM (TOTAL).....	.....	67.8	.....	MG/L
6:	044 /ARSENIC (TOTAL).....	.....	0.25	.....	MG/L
7:	046 /CADMIUM (TOTAL).....	.....	LO.01	.....	MG/L
8:	047 /CHROMIUM (TOTAL).....	.....	0.02	.....	MG/L
9:	048 /COPPER (TOTAL).....	.....	LO.01	.....	MG/L
10:	049 /IRON (TOTAL).....	.....	1.02	.....	MG/L
11:	051 /LEAD (TOTAL).....	.....	0.02	.....	MG/L
12:	054 /ZINC (TOTAL).....	.....	0.20	.....	MG/L
13:	159 /NICKEL (TOTAL).....	.....	0.02	.....	MG/L
14:	160 /MANGANESE (TOTAL).....	.....	0.38	.....	MG/L
15:	162 /ALUMINUM (TOTAL).....	.....	0.41	.....	MG/L
16:	171 /FLUORIDE.....	.....	LO.25	.....	MG/L

LAB NUMBER(S):

P

PIONEER COAL, SYDNEY

PIONEER COAL



* 87PH029 - PHIL HENNEBURY STATUS AS OF DEC 4, 1987 *

REGISTERED ON: JUN 18, 1987, BY :PHIL H

LOCATOR: SFECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN, DATE: 16/ 6/87 (JUN 16, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 16/ 6/87 (JUN 16, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE: EFFLUENT FROM SETTLING PONS AND SITE
RUN-OFF (PIONEER COAL LTD.)

----- SAMPLE ANALYSIS -----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	6.7		
2:	001F/PH.....	6.2		
3:	008 /TURBIDITY.....	4.5		JTU
4:	009 /ALKALINITY.....	12.		MG/L
5:	018 /SOLIDS, TOTAL (TS).....	370.		MG/L
6:	020 /SUSPENDED SOLIDS (SS).....	9.		MG/L
7:	022 /MAGNESIUM (TOTAL).....	14.7		MG/L
8:	030 /SULPHATE (SO4).....	154.		MG/L
9:	036 /CALCIUM (TOTAL).....	53.5		MG/L
10:	038 /STRONTIUM.....	1.15		MG/L
11:	043 /SILVER (TOTAL).....	L.02		MG/L
12:	044 /ARSENIC (TOTAL).....	.05		MG/L
13:	046 /CADMIUM (TOTAL).....	L.01		MG/L
14:	047 /CHROMIUM (TOTAL).....	L.01		MG/L
15:	048 /COPPER (TOTAL).....	L.01		MG/L
16:	049 /IRON (TOTAL).....	.71		MG/L
17:	051 /LEAD (TOTAL).....	L.02		MG/L
18:	052 /ANTIMONY (TOTAL).....	L0.20		MG/L
19:	054 /ZINC (TOTAL).....	.04		MG/L
20:	128 /ACIDITY, TOTAL.....	2.0		MG/L
21:	131 /TOTAL DISSOLVED SOLIDS (TDS)..	360.		MG/L
22:	159 /NICKEL (TOTAL).....	.08		MG/L
23:	160 /MANGANESE (TOTAL).....	3.09		MG/L
24:	161 /CHLORIDE.....	17.		PPM
25:	162 /ALUMINUM (TOTAL).....	L.025		MG/L
26:	202 /VANADIUM	"NO RESULT"		MG/L
27:	203 /BARIUM (BA) .....	.07		MG/L

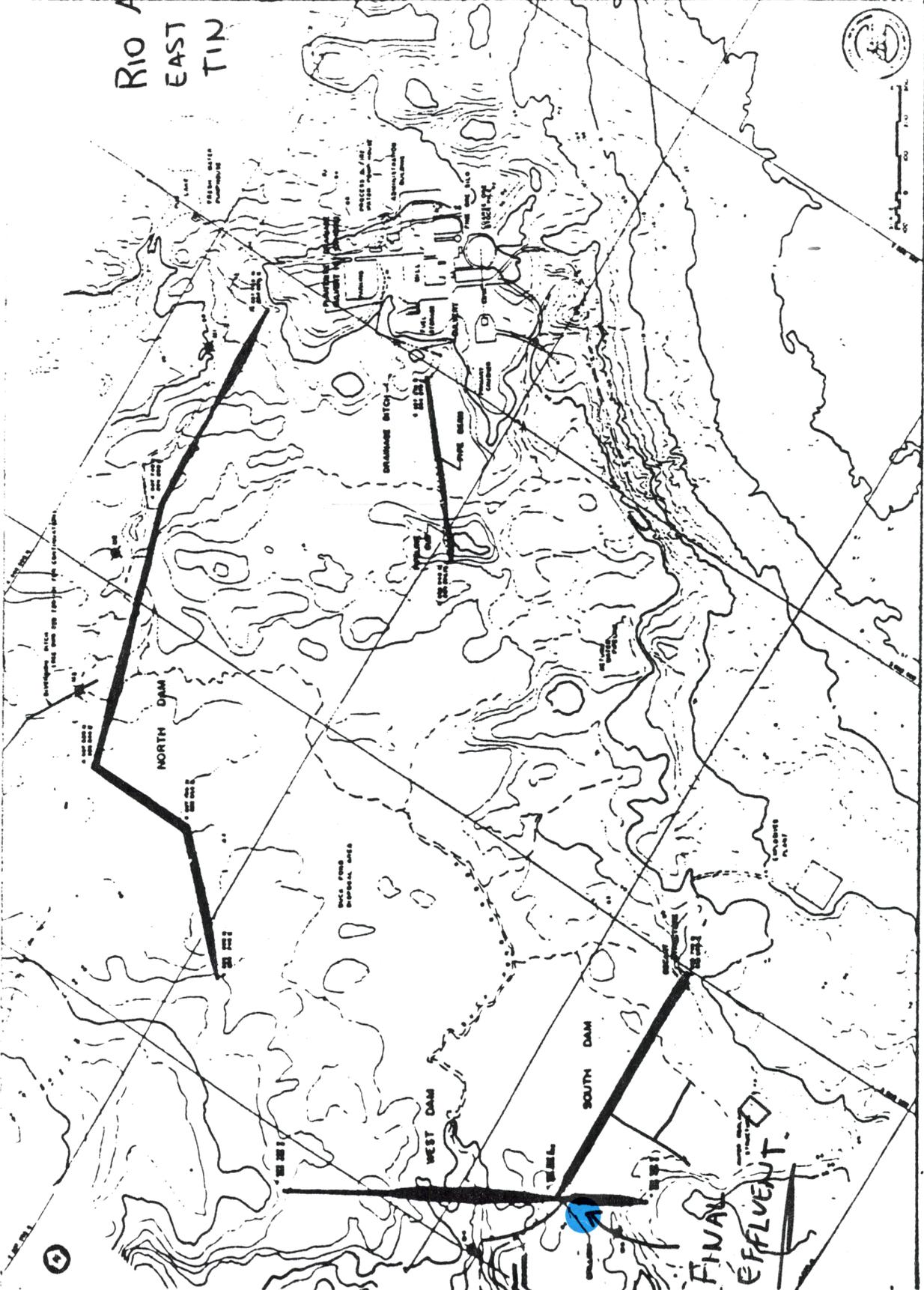
R

R I O A L G O M T I N M I N E , E A S T T U S K E T R I V E R

10/10/80

RIO ALGOM EAST KEMPTVILLE TIN MINE

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FINAL EFFLUENT

* 87RF027 - ROY PARKER STATUS AS OF JAN 11, 1988 *

REGISTERED ON: MAY 27, 1987, BY :ANDRE

LOCATOR: RIOALG01/RIO ALGOM (85938311)

FINAL EFFLUENT

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 26/ 5/87 (MAY 26, 1987); TIME: 910; FREQ: 1

SAMPLING ENDED, DATE: 26/ 5/87 (MAY 26, 1987); TIME: 910

DEPTH: .00 METERS; TIDE:

NARRATIVE: FINAL EFFLUENT; VERY LOW FLOW

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	7.0	
2: 001F/PH.....	7.5	
3: 005 /HARDNESS.....	75.	MG/L
4: 020 /SUSPENDED SOLIDS (SS).....	L5.	MG/L
5: 022 /MAGNESIUM (TOTAL).....	1.07	MG/L
6: 026 /NITRATE-N (NO3-N).....	2.22	MG/L
7: 027 /NITRITE-N (NO2-N).....	0.04	MG/L
8: 028 /AMMONIA-N (NH3-N).....	0.03	MG/L
9: 029 /CYANIDE (CN).....	L0.02	MG/L
10: 036 /CALCIUM (TOTAL).....	27.8	MG/L
11: 044 /ARSENIC (TOTAL).....	L.05	MG/L
12: 046 /CADMIUM (TOTAL).....	L.01	MG/L
13: 047 /CHROMIUM (TOTAL).....	L.01	MG/L
14: 048 /COPPER (TOTAL).....	.01	MG/L
15: 049 /IRON (TOTAL).....	.28	MG/L
16: 050 /MERCURY (TOTAL).....	L0.00005	MG/L
17: 051 /LEAD (TOTAL).....	L.02	MG/L
18: 052 /ANTIMONY (TOTAL).....	L0.2	MG/L
19: 054 /ZINC (TOTAL).....	.37	MG/L
20: 084 /PHOSPHATE PHOSPHORUS TOTAL....	0.07	MG/L
21: 159 /NICKEL (TOTAL).....	L.01	MG/L
22: 160 /MANGANESE (TOTAL).....	.32	MG/L
23: 162 /ALUMINUM (TOTAL).....	.16	MG/L
24: 171 /FLUORIDE.....	5.5	MG/L
25: 207 /TIN (SN)	L.05	MG/L

* 87RP028 - ROY PARKER STATUS AS OF JAN 11, 1988 *

REGISTERED ON: MAY 27, 1987; BY :ANDRE

LOCATOR: RIOALG02/RIO ALGOM (86618134) PROV: NS
BIG MEADOWS BROOK AT BRIDGE
PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 26/ 5/87 (MAY 26, 1987); TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 26/ 5/87 (MAY 26, 1987); TIME: 1000

DEPTH: .00 METERS, TIDE:
NARRATIVE: BIG MEADOWS BR AT BRIDGE

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	5.4	
2: 001F/PH.....	5.1	
3: 005 /HARDNESS.....	6.	MG/L
4: 020 /SUSPENDED SOLIDS (SS).....	L5.	MG/L
5: 022 /MAGNESIUM (TOTAL).....	.42	MG/L
6: 026 /NITRATE-N (NO3-N).....	0.13	MG/L
7: 027 /NITRITE-N (NO2-N).....	L0.02	MG/L
8: 028 /AMMONIA-N (NH3-N).....	0.02	MG/L
9: 029 /CYANIDE (CN).....	L0.02	MG/L
10: 036 /CALCIUM (TOTAL).....	1.73	MG/L
11: 044 /ARSENIC (TOTAL).....	L.05	MG/L
12: 046 /CADMIUM (TOTAL).....	L.01	MG/L
13: 047 /CHROMIUM (TOTAL).....	L.01	MG/L
14: 048 /COPPER (TOTAL).....	L.01	MG/L
15: 049 /IRON (TOTAL).....	.26	MG/L
16: 050 /MERCURY (TOTAL).....	0.00009	MG/L
17: 051 /LEAD (TOTAL).....	L.02	MG/L
18: 052 /ANTIMONY (TOTAL).....	L0.2	MG/L
19: 054 /ZINC (TOTAL).....	.03	MG/L
20: 084 /PHOSPHATE PHOSPHORUS TOTAL.....	0.04	MG/L
21: 159 /NICKEL (TOTAL).....	L.01	MG/L
22: 160 /MANGANESE (TOTAL).....	.08	MG/L
23: 162 /ALUMINUM (TOTAL).....	.33	MG/L
24: 171 /FLUORIDE.....	L0.25	MG/L
25: 207 /TIN (SK)	L.05	MG/L

* 87RF029 - ROY PARKER STATUS AS OF JAN 11, 1988 *

REGISTERED ON: MAY 27, 1987, BY :ANDRE

LOCATOR: RIOALG04/RIO ALGOM (84468300)

BIG MEADOWS BR ABOVE DUCK POND BR CONFLU PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 26/ 5/87 (MAY 26, 1987), TIME: 1030, FREQ: 1

SAMPLING ENDED, DATE: 26/ 5/87 (MAY 26, 1987), TIME: 1030

DEPTH: .00 METERS, TIDE:

NARRATIVE: BIG MEADOWS AT FALLS

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	4.4	
2: 001F/PH.....	4.1	
3: 005 /HARDNESS.....	2.	MG/L
4: 020 /SUSPENDED SOLIDS (SS).....	L5.	MG/L
5: 022 /MAGNESIUM (TOTAL).....	.25	MG/L
6: 026 /NITRATE-N (NO3-N).....	0.16	MG/L
7: 027 /NITRITE-N (NO2-N).....	L0.02	MG/L
8: 028 /AMMONIA-N (NH3-N).....	L0.014	MG/L
9: 029 /CYANIDE (CN).....	L0.02	MG/L
10: 036 /CALCIUM (TOTAL).....	.33	MG/L
11: 044 /ARSENIC (TOTAL).....	L.05	MG/L
12: 046 /CADMIUM (TOTAL).....	L.01	MG/L
13: 047 /CHROMIUM (TOTAL).....	L.01	MG/L
14: 048 /COPPER (TOTAL).....	L.01	MG/L
15: 049 /IRON (TOTAL).....	.28	MG/L
16: 050 /MERCURY (TOTAL).....	0.00015	MG/L
17: 051 /LEAD (TOTAL).....	L.02	MG/L
18: 052 /ANTIMONY (TOTAL).....	L0.2	MG/L
19: 054 /ZINC (TOTAL).....	.03	MG/L
20: 084 /PHOSPHATE PHOSPHORUS TOTAL.....	L0.005	MG/L
21: 159 /NICKEL (TOTAL).....	L.01	MG/L
22: 160 /MANGANESE (TOTAL).....	L.01	MG/L
23: 162 /ALUMINUM (TOTAL).....	.41	MG/L
24: 171 /FLUORIDE.....	L0.25	MG/L
25: 207 /TIN (SN)	L.05	MG/L

* 87RF030 - ROY PARKER STATUS AS OF JUN 11, 1988 *

REGISTERED ON: MAY 27, 1987; BY :ANDRE

LOCATOR: EASTUS02/EAST TUSKET RIVER (87898045)

BELOW CONFLUENCE BIG MEADOW BROOK

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN; DATE: 26/ 5/87 (MAY 26, 1987); TIME: 1100; FREQ: 1

SAMPLING ENDED; DATE: 26/ 5/87 (MAY 26, 1987); TIME: 1100

DEPTH: .00 METERS; TIDE:

NARRATIVE: ASSESSMENT POINT

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	3.7		
2:	001F/PH.....	3.5		
3:	005 /HARDNESS.....	3.		MG/L
4:	020 /SUSPENDED SOLIDS (SS).....	L5.		MG/L
5:	022 /MAGNESIUM (TOTAL).....	.33		MG/L
6:	026 /NITRATE-N (NO3-N).....	0.06		MG/L
7:	027 /NITRITE-N (NO2-N).....	L0.02		MG/L
8:	028 /AMMONIA-N (NH3-N).....	L0.014		MG/L
9:	029 /CYANIDE (CN).....	L0.02		MG/L
10:	036 /CALCIUM (TOTAL).....	.61		MG/L
11:	044 /ARSENIC (TOTAL).....	L.05		MG/L
12:	046 /CADMIUM (TOTAL).....	L.01		MG/L
13:	047 /CHROMIUM (TOTAL).....	L.01		MG/L
14:	048 /COPPER (TOTAL).....	L.01		MG/L
15:	049 /IRON (TOTAL).....	.24		MG/L
16:	050 /MERCURY (TOTAL).....	L0.00005		MG/L
17:	051 /LEAD (TOTAL).....	L.02		MG/L
18:	052 /ANTIMONY (TOTAL).....	L0.2		MG/L
19:	054 /ZINC (TOTAL).....	.01		MG/L
20:	084 /PHOSPHATE PHOSPHORUS TOTAL....	L0.005		MG/L
21:	159 /NICKEL (TOTAL).....	L.01		MG/L
22:	160 /MANGANESE (TOTAL).....	.02		MG/L
23:	162 /ALUMINUM (TOTAL).....	.31		MG/L
24:	171 /FLUORIDE.....	L0.25		MG/L
25:	207 /TIN (SN)	L.05		MG/L

 * 87RF031 - ROY PARKER STATUS AS OF JAN 11, 1988 *

REGISTERED ON: MAY 27, 1987; BY :ANDRE

LOCATOR: EASTUS04/EAST TUSKET RIVER (88308510)
 PUG LAKE AT RIO ALGOM PUMPING STATION PROV: NS
 PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 26/ 5/87 (MAY 26, 1987); TIME: 1015, FREQ: 1
 SAMPLING ENDED, DATE: 26/ 5/87 (MAY 26, 1987); TIME: 1015

DEPTH: .00 METERS, TIDE:
 NARRATIVE: PUG LAKE

----- SAMPLE ANALYSIS -----

PARAMETER	VALUE	UNITS
1: 001 /PH.....	4.4	
2: 001F/PH.....	4.1	
3: 005 /HARDNESS.....	2.	MG/L
4: 020 /SUSPENDED SOLIDS (SS).....	L5.	MG/L
5: 022 /MAGNESIUM (TOTAL).....	.29	MG/L
6: 026 /NITRATE-N (NO3-N).....	0.09	MG/L
7: 027 /NITRITE-N (NO2-N).....	L0.02	MG/L
8: 028 /AMMONIA-N (NH3-N).....	L0.014	MG/L
9: 029 /CYANIDE (CN).....	L0.02	MG/L
10: 036 /CALCIUM (TOTAL).....	.42	MG/L
11: 044 /ARSENIC (TOTAL).....	L.05	MG/L
12: 046 /CADMIUM (TOTAL).....	L.01	MG/L
13: 047 /CHROMIUM (TOTAL).....	L.01	MG/L
14: 048 /COPPER (TOTAL).....	L.01	MG/L
15: 049 /IRON (TOTAL).....	.18	MG/L
16: 050 /MERCURY (TOTAL).....	L0.00005	MG/L
17: 051 /LEAD (TOTAL).....	L.02	MG/L
18: 052 /ANTIMONY (TOTAL).....	L0.2	MG/L
19: 054 /ZINC (TOTAL).....	L.01	MG/L
20: 084 /PHOSPHATE PHOSPHORUS TOTAL....	L0.005	MG/L
21: 159 /NICKEL (TOTAL).....	L.01	MG/L
22: 160 /MANGANESE (TOTAL).....	L.01	MG/L
23: 162 /ALUMINUM (TOTAL).....	.30	MG/L
24: 171 /FLUORIDE.....	L0.25	MG/L
25: 207 /TIN (SN)	L.05	MG/L

* 87RF032 - ROY PARKER STATUS AS OF JAN 11, 1988 *

REGISTERED ON: MAY 27, 1987; BY :ANDRE

LOCATOR: EASTUS03/EAST TUSKET RIVER (84507405)

NORTH KEMPTVILLE BRIDGE-RIO ALGOM ST.T2 PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 26/ 5/87 (MAY 26, 1987), TIME: 1200, FREQ: 1

SAMPLING ENDED, DATE: 26/ 5/87 (MAY 26, 1987), TIME: 1200

DEPTH: .00 METERS, TIDE:

NARRATIVE: STATION T2

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	4.6	
2: 001F/PH.....	4.4	
3: 005 /HARDNESS.....	3.	MG/L
4: 020 /SUSPENDED SOLIDS (SS).....	L5.	MG/L
5: 022 /MAGNESIUM (TOTAL).....	.39	MG/L
6: 026 /NITRATE-N (NO3-N).....	L0.02	MG/L
7: 027 /NITRITE-N (NO2-N).....	L0.02	MG/L
8: 028 /AMMONIA-N (NH3-N).....	L0.014	MG/L
9: 029 /CYANIDE (CN).....	L0.02	MG/L
10: 036 /CALCIUM (TOTAL).....	.66	MG/L
11: 044 /ARSENIC (TOTAL).....	L.05	MG/L
12: 046 /CADMIUM (TOTAL).....	L.01	MG/L
13: 047 /CHROMIUM (TOTAL).....	L.01	MG/L
14: 048 /COPPER (TOTAL).....	L.01	MG/L
15: 049 /IRON (TOTAL).....	.21	MG/L
16: 050 /MERCURY (TOTAL).....	0.00008	MG/L
17: 051 /LEAD (TOTAL).....	L.02	MG/L
18: 052 /ANTIMONY (TOTAL).....	L0.2	MG/L
19: 054 /ZINC (TOTAL).....	.01	MG/L
20: 084 /PHOSPHATE PHOSPHORUS TOTAL....	0.045	MG/L
21: 159 /NICKEL (TOTAL).....	L.01	MG/L
22: 160 /MANGANESE (TOTAL).....	.01	MG/L
23: 162 /ALUMINUM (TOTAL).....	.29	MG/L
24: 171 /FLUORIDE.....	L0.25	MG/L
25: 207 /TIN (SN)	L.05	MG/L

* 87RP033 - ROY PARKER STATUS AS OF JAN 11, 1988 *

REGISTERED ON: MAY 27, 1987, BY :ANDRE

LOCATOR: RIOALG03/RIO ALGON (85688285)

DUCK POND BROOK AT ROAD CROSSING

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN: DATE: 26/ 5/87 (MAY 26, 1987), TIME: 1145, FREQ: 1

SAMPLING ENDED: DATE: 26/ 5/87 (MAY 26, 1987), TIME: 1145

DEPTH: .00 METERS, TIDE:

NARRATIVE: DUCK POND BR BELOW MINE AT BRIDGE

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....		6.6	
2:	001F/PH.....		6.9	
3:	005 /HARDNESS.....		60.	MG/L
4:	020 /SUSPENDED SOLIDS (SS).....	L5.		MG/L
5:	022 /MAGNESIUM (TOTAL).....	1.10		MG/L
6:	026 /NITRATE-N (NO3-N).....	4.79		MG/L
7:	027 /NITRITE-N (NO2-N).....	L0.02		MG/L
8:	028 /AMMONIA-N (NH3-N).....	L0.014		MG/L
9:	029 /CYANIDE (CN).....	L0.02		MG/L
10:	036 /CALCIUM (TOTAL).....	21.3		MG/L
11:	044 /ARSENIC (TOTAL).....	L.05		MG/L
12:	046 /CADMIUM (TOTAL).....	L.01		MG/L
13:	047 /CHROMIUM (TOTAL).....	L.01		MG/L
14:	048 /COPPER (TOTAL).....	L.01		MG/L
15:	049 /IRON (TOTAL).....	.28		MG/L
16:	050 /MERCURY (TOTAL).....	0.00015		MG/L
17:	051 /LEAD (TOTAL).....	L.02		MG/L
18:	052 /ANTIMONY (TOTAL).....	L0.2		MG/L
19:	054 /ZINC (TOTAL).....	.30		MG/L
20:	084 /PHOSPHATE PHOSPHORUS TOTAL....	L0.005		MG/L
21:	159 /NICKEL (TOTAL).....	L.01		MG/L
22:	160 /MANGANESE (TOTAL).....	.24		MG/L
23:	162 /ALUMINUM (TOTAL).....	.12		MG/L
24:	171 /FLUORIDE.....	4.0		MG/L
25:	207 /TIN (SN)	L.05		MG/L

* 87RF040 - ROY PARKER STATUS AS OF JUN 22, 1988 *

REGISTERED ON: JUL 20, 1987; BY :ANDRE

LOCATOR: RIOALG01/RIO ALGOM (85939311)

FINAL EFFLUENT

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 30/ 6/87 (JUN 30, 1987), TIME: 1000, FREQ: 1

SAMPLING ENDED, DATE: 30/ 6/87 (JUN 30, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE: EAST KEMPTVILLE TIN MINE

FINAL EFFLUENT

----- SAMPLE ANALYSIS -----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	6.9		
2:	005 /HARDNESS.....	80.		MG/L
3:	020 /SUSPENDED SOLIDS (SS).....	L5.		MG/L
4:	022 /MAGNESIUM (TOTAL).....	1.13		MG/L
5:	036 /CALCIUM (TOTAL).....	30.0		MG/L
6:	044 /ARSENIC (TOTAL).....	L.05		MG/L
7:	046 /CADMIUM (TOTAL).....	L.01		MG/L
8:	047 /CHROMIUM (TOTAL).....	L.01		MG/L
9:	048 /COPPER (TOTAL).....	.02		MG/L
10:	049 /IRON (TOTAL).....	.26		MG/L
11:	051 /LEAD (TOTAL).....	L.02		MG/L
12:	054 /ZINC (TOTAL).....	.33		MG/L
13:	159 /NICKEL (TOTAL).....	L.01		MG/L
14:	160 /MANGANESE (TOTAL).....	.23		MG/L
15:	162 /ALUMINUM (TOTAL).....	.16		MG/L
16:	171 /FLUORIDE.....	6.1		MG/L
17:	207 /TIN (SN)	L.05		MG/L
18:	500 /BIOASSAY	"DONE"		

R. Parker, Head
Mineral Industries & Toxic Studies Section
Water Pollution Control Division
Air & Water Branch

J. Young, Project Biologist
Aquatic Toxicology Section
Laboratory Division
Air & Water Branch

SECURITY - CLASSIFICATION - DE SECURITE
OUR FILE - N. REFERENCE 4705-37/S493
YOUR FILE - V. REFERENCE
DATE 28 July 1987

SUBJECT
OBJET

BIOASSAY RESULTS - EAST KEMPTVILLE TIN CORPORATION

On 2 July 1987, a 96-hour static bioassay using rainbow trout fingerling was begun on a sample of final effluent (Lab Registration No. 87RP040) from the East Kemptville Tin Corporation Mine, Yarmouth Co., Nova Scotia. The effluent was not acutely lethal to the test fish.

A copy of the Bioassay Report Form is attached which provides additional details of the test.

Kenneth G. Doe for

J. Young

JY/ldl

Attachment (1)

cc: H. Samant
K. Doe
D. Vaughan
J. Turner, NSDOE

* 87RP055 - ROY PARKER STATUS NS OF JUN 22, 1988 *

REGISTERED ON: SEP 24, 1987, BY :ROY F

LOCATOR: RIOALG00/RIO ALGOM EAST NEMPTVILLE TIN MINE
GENERAL

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 29/ 6/87 (JUN 29, 1987), TIME: 1000, FREQ: 1

SAMPLING ENDED, DATE: 29/ 6/87 (JUN 29, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE: FISH BONES, FISH TAKEN FROM THE LAKE GEOR
GE F.C.S. SAMPLE 1

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 171 /FLUORIDE.....	"L6 UG/G"	MG/L

* E7RF056 - ROY PARKER STATUS AS OF JAN 22, 1988 *

REGISTERED ON: SEP 24, 1987, BY :ROY P

LOCATOR: RIDALGOO/RID ALGOM EAST KEMPTVILLE TIN MINE
GENERAL

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN: DATE: 29/ 6/87 (JUN 29, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED: DATE: 29/ 6/87 (JUN 29, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE: FISH BONES; FISH TAKEN FROM THE LAKE GEOR
GE F.C.S. SAMPLE 1

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 171 /FLUORIDE.....	"65 UG/GM"	MG/L

* 87RF057 - ROY PARKER STATUS AS OF JAN 22, 1988 *

REGISTERED ON: SEP 24, 1987, BY :ROY F

LOCATOR: RIOALG00/RIO ALGOM EAST KEMPTVILLE TIN MINE
GENERAL

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN: DATE: 29/ 6/87 (JUN 29, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED: DATE: 29/ 6/87 (JUN 29, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE: FISH BONES .COLLECTED FROM THE LAKE
GEORGE F.C.S. SAMPLE 3

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE	UNITS
1: 171 /FLUORIDE.....	"L6 UG/GM"	MG/L

* 87RF058 - ROY PARKER STATUS AS OF JAN 22, 1988 *

REGISTERED ON: SEP 24, 1987, BY :ROY F

LOCATOR: RIOALG00/RIO ALGOK EAST KEMPTVILLE TIN NINE
GENERAL

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 30/ 8/87 (AUG 30, 1987), TIME: 1400, FREQ: 1
SAMPLING ENDED, DATE: 30/ 8/87 (AUG 30, 1987), TIME: 1400

DEPTH: .00 METERS, TIDE:

NARRATIVE: FISH BONES COLLECTED FROM BIG MEADOW
BROOK SAMPLE 1

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 171 /FLUORIDE.....	"135 UG/GH"	MG/L

* 87RF059 - ROY PARKER STATUS AS OF JUN 22, 1988 *

REGISTERED ON: SEP 24, 1987, BY :ROY F

LOCATOR: RIOALGOO/RIO ALGOM EAST KEMPTVILLE TIN MINE

GENERAL

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 30/ 8/87 (AUG 30, 1987), TIME: 1400, FREQ: 1

SAMPLING ENDED, DATE: 30/ 8/87 (AUG 30, 1987), TIME: 1400

DEPTH: .00 METERS, TIDE:

NARRATIVE: FISH BONES COLLECTED FROM BIG MEADOW

BROOK. SAMPLE 2

----- SAMPLE ANALYSIS -----

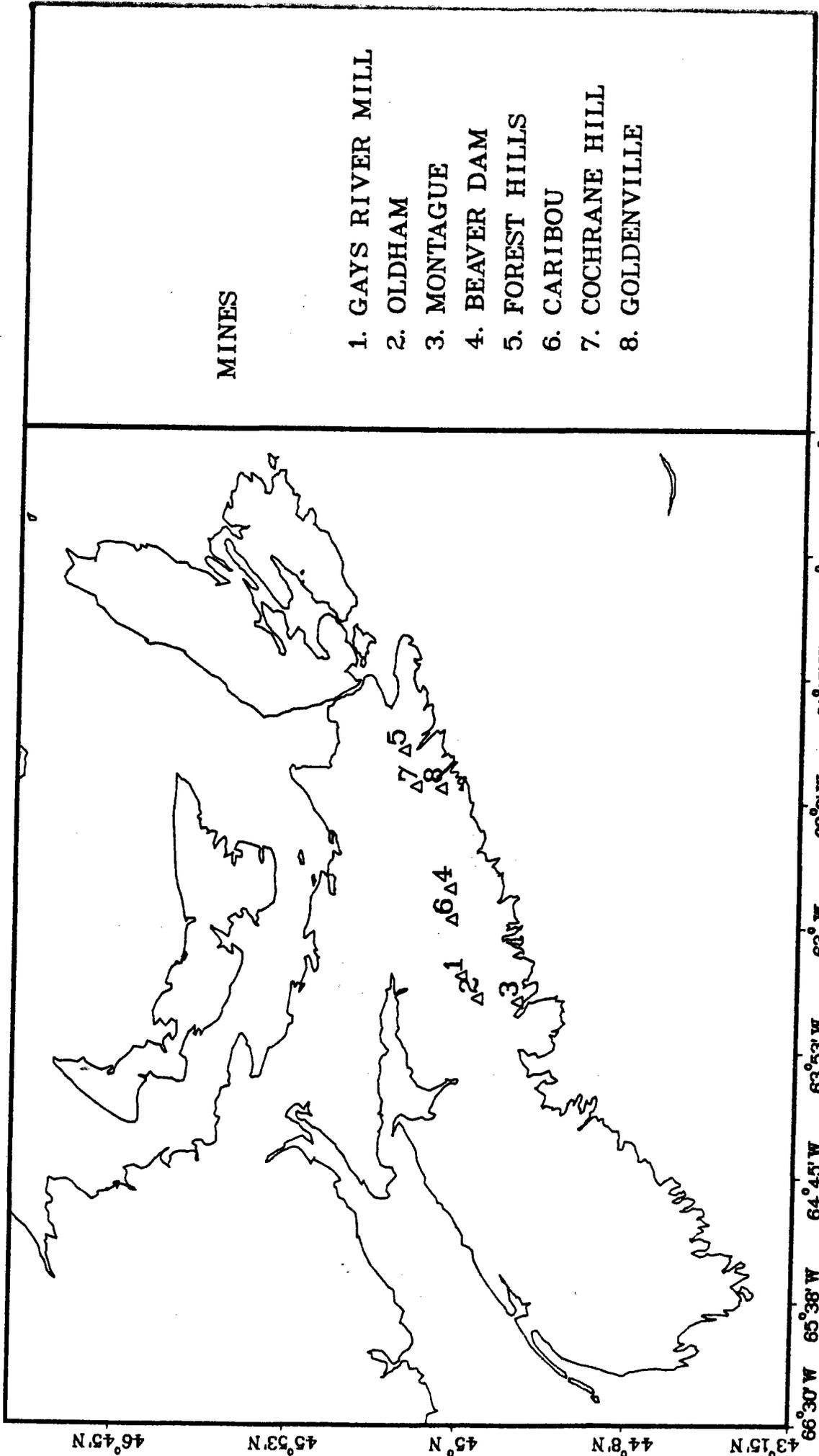
.....PARAMETER .....	..... VALUE	UNITS
1: 171 /FLUORIDE.....	'35.5UG/GM'	MG/L

S

SEABRIGHT RESOURCES - BEAVER DAM
- CARIBOU MINE
- COPPER LAKE,
COXHEATH,
TANGIER
- FOREST HILLS
- GAYS RIVER MINE

MYPROG
25/9/87
→

GOLD MINING SITES



43°15' N
44°8' N
45° N
45°53' N
46°45' N

LATITUDE

66°30' W
65°38' W
64°45' W
63°53' W
63° W
62°8' W
61°15' W
60°23' W
59°30' W

LONGITUDE

MINES

1. GAYS RIVER MILL
2. OLDHAM
3. MONTAGUE
4. BEAVER DAM
5. FOREST HILLS
6. CARIBOU
7. COCHRANE HILL
8. GOLDENVILLE

BEAVER DAM

* 87RP001 - ROY PARKER STATUS AS OF JAN 29, 1987 *

REGISTERED ON: JAN 7, 1987; BY :ANDRE

LOCATOR: BEADAM01/BEAVER DAM

BR. FLOW. INTO CAMERON FLOW., BELOW MINE PROV: MS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 7/ 1/87 (JAN 7, 1987); TIME: 1015; FREQ: 1

SAMPLING ENDED, DATE: 7/ 1/87 (JAN 7, 1987); TIME: 1015

DEPTH: .00 METERS, TIDE:

NARRATIVE: SETTLING POND OVERFLOW,FINAL EFFLUENT

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	6.0	
2: 020 /SUSPENDED SOLIDS (SS).....	LS.	MG/L

* SERP002 - ROY PARKER

STATUS AS OF MAR 1, 1988 *

REGISTERED ON: FEB 8, 1988, BY :ANDRE

LOCATOR: BEADAM01/BEAVER DAM

BR. FLOW. INTO CAMERON FLOW., BELOW MINE PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 8/ 2/88 (FEB 8, 1988), TIME: 1100, FREQ: 1

SAMPLING ENDED, DATE: 8/ 2/88 (FEB 8, 1988), TIME: 1100

DEPTH: .00 METERS, TIDE:

NARRATIVE: FINAL EFFLUENT

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	6.9	
2: 005 /HARDNESS.....	65.	MG/L
3: 020 /SUSPENDED SOLIDS (SS).....	11.	MG/L
4: 022 /MAGNESIUM (TOTAL).....	2.34	MG/L
5: 036 /CALCIUM (TOTAL).....	22.8	MG/L
6: 044 /ARSENIC (TOTAL).....	LO.05	MG/L
7: 046 /CADMIUM (TOTAL).....	LO.01	MG/L
8: 047 /CHROMIUM (TOTAL).....	0.02	MG/L
9: 048 /COPPER (TOTAL).....	LO.01	MG/L
10: 049 /IRON (TOTAL).....	0.55	MG/L
11: 051 /LEAD (TOTAL).....	LO.02	MG/L
12: 054 /ZINC (TOTAL).....	0.02	MG/L
13: 159 /NICKEL (TOTAL).....	LO.01	MG/L
14: 160 /MANGANESE (TOTAL).....	0.32	MG/L
15: 162 /ALUMINUM (TOTAL).....	0.26	MG/L

* 87RP006 - ROY PARKER STATUS AS OF JAN 28, 1987 *

REGISTERED ON: JAN 21, 1987; BY :ANDRE

LOCATOR: BEADAM01/BEAVER DAM

BR. FLOW. INTO CAMERON FLOW., BELOW MINE PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN: DATE: 21/ 1/87 (JAN 21, 1987); TIME: 900; FREQ: 1

SAMPLING ENDED: DATE: 21/ 1/87 (JAN 21, 1987); TIME: 900

DEPTH: .00 METERS; TIDE:

NARRATIVE: SETTLING POND OVERFLOW

SEABRIGHT, BEAVER DAM

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	6.0	
2: 020 /SUSPENDED SOLIDS (SS).....	LS.	MG/L

LMS>

* 87RP014 - ROY PARKER STATUS AS OF MAY 29, 1987 *

REGISTERED ON: APR 13, 1987, BY :ANDRE

LOCATOR: BEADAM01/BEAVER DAM

BR. FLOW. INTO CAMERON FLOW., BELOW MINE PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 10/ 4/87 (APR 10, 1987), TIME: 1320, FREQ: 1

SAMPLING ENDED, DATE: 10/ 4/87 (APR 10, 1987), TIME: 1320

DEPTH: .00 METERS, TIDE:

NARRATIVE: FINAL EFFLUENT

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	6.2		
2:	005 /HARDNESS.....	45.		MG/L
3:	013 /OIL & GREASE (PET. ETHER).....	14.		MG/L
4:	020 /SUSPENDED SOLIDS (SS).....	12.		MG/L
5:	022 /MAGNESIUM (TOTAL).....	1.80		MG/L
6:	036 /CALCIUM (TOTAL).....	14.4		MG/L
7:	044 /ARSENIC (TOTAL).....	LO.05		MG/L
8:	046 /CADMIUM (TOTAL).....	LO.01		MG/L
9:	047 /CHROMIUM (TOTAL).....	LO.01		MG/L
10:	048 /COPPER (TOTAL).....	LO.01		MG/L
11:	049 /IRON (TOTAL).....	1.09		MG/L
12:	051 /LEAD (TOTAL).....	LO.02		MG/L
13:	054 /ZINC (TOTAL).....	0.02		MG/L
14:	159 /NICKEL (TOTAL).....	LO.01		MG/L
15:	160 /MANGANESE (TOTAL).....	0.44		MG/L
16:	162 /ALUMINUM (TOTAL).....	0.60		MG/L

* 87RP015 - ROY PARKER STATUS AS OF MAY 29, 1987 *

REGISTERED ON: APR 13, 1987, BY :ANDRE

LOCATOR: KILLAG01/KILLAGE RIVER

50 M. BELOW BRIDGE ON BEAVER DAM ROAD

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 10/ 4/87 (APR 10, 1987), TIME: 1420, FREQ: 1

SAMPLING ENDED, DATE: 10/ 4/87 (APR 10, 1987), TIME: 1420

DEPTH: .00 METERS, TIDE:

NARRATIVE: KILLAG RIVER AT BRIDGE

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	4.8		
2:	005 /HARDNESS.....	3.		MG/L
3:	013 /OIL & GREASE (PET. ETHER).....	10.		MG/L
4:	020 /SUSPENDED SOLIDS (SS).....	L5.		MG/L
5:	022 /MAGNESIUM (TOTAL).....	0.26		MG/L
6:	036 /CALCIUM (TOTAL).....	0.66		MG/L
7:	044 /ARSENIC (TOTAL).....	L0.05		MG/L
8:	046 /CADMIUM (TOTAL).....	L0.01		MG/L
9:	047 /CHROMIUM (TOTAL).....	0.03		MG/L
10:	048 /COPPER (TOTAL).....	L0.01		MG/L
11:	049 /IRON (TOTAL).....	0.24		MG/L
12:	051 /LEAD (TOTAL).....	L0.02		MG/L
13:	054 /ZINC (TOTAL).....	L0.01		MG/L
14:	159 /NICKEL (TOTAL).....	L0.01		MG/L
15:	160 /MANGANESE (TOTAL).....	0.04		MG/L
16:	162 /ALUMINUM (TOTAL).....	0.14		MG/L

* 87RP034 - ROY PARKER STATUS AS OF DEC 10, 1987 *

REGISTERED ON: MAY 28, 1987, BY :ROY P

LOCATOR: BEADAM01/BEAVER DAM

BR. FLOW. INTO CAMERON FLOW., BELOW MINE PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 27/ 5/87 (MAY 27, 1987), TIME: 1415, FREQ: 1

SAMPLING ENDED, DATE: 27/ 5/87 (MAY 27, 1987), TIME: 1415

DEPTH: .00 METERS, TIDE:

NARRATIVE: FINAL EFFLUENT , DUPLICATE SAMPLE FOR HG
TAKEN BY COMPANY

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....		6.6	
2:	001F/PH.....		6.8	
3:	005 /HARDNESS.....		70.	MG/L
4:	020 /SUSPENDED SOLIDS (SS).....		L5.	MG/L
5:	022 /MAGNESIUM (TOTAL).....		2.65	MG/L
6:	036 /CALCIUM (TOTAL).....		27.9	MG/L
7:	038 /STRONTIUM.....		.18	MG/L
8:	044 /ARSENIC (TOTAL).....		L.05	MG/L
9:	046 /CADMIUM (TOTAL).....		L.01	MG/L
10:	047 /CHROMIUM (TOTAL).....		L.01	MG/L
11:	048 /COPPER (TOTAL).....		L.01	MG/L
12:	049 /IRON (TOTAL).....		.09	MG/L
13:	050 /MERCURY (TOTAL).....		0.00006	MG/L
14:	051 /LEAD (TOTAL).....		L.02	MG/L
15:	052 /ANTIMONY (TOTAL).....		L0.2	MG/L
16:	054 /ZINC (TOTAL).....		L.01	MG/L
17:	159 /NICKEL (TOTAL).....		L.01	MG/L
18:	160 /MANGANESE (TOTAL).....		L.01	MG/L
19:	162 /ALUMINUM (TOTAL).....		L.025	MG/L
20:	202 /VANADIUM		"NO RESULT"	MG/L
21:	203 /BARIUM (BA) .....		.02	MG/L
22:	204 /BISMUTH (BI)		"NO RESULT"	MG/L
23:	205 /LITHIUM (LI) .....		.04	MG/L
24:	206 /MOLYBDENUM (MO)		L.01	MG/L
25:	207 /TIN (SN)		L.05	MG/L

* 87RP035 - ROY PARKER STATUS AS OF JUN 8, 1987 *

REGISTERED ON: MAY 28, 1987, BY :ROY P

LOCATOR: BEADAM01/BEAVER DAM

BR. FLOW. INTO CAMERON FLOW., BELOW MINE PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 27/ 5/87 (MAY 27, 1987), TIME: 1415, FREQ: 1

SAMPLING ENDED, DATE: 27/ 5/87 (MAY 27, 1987), TIME: 1415

DEPTH: .00 METERS, TIDE:

NARRATIVE: FINAL EFFLUENT , DUPLICATE SAMPLE FOR HG
TAKEN BY COMPANY

----- SAMPLE ANALYSIS -----

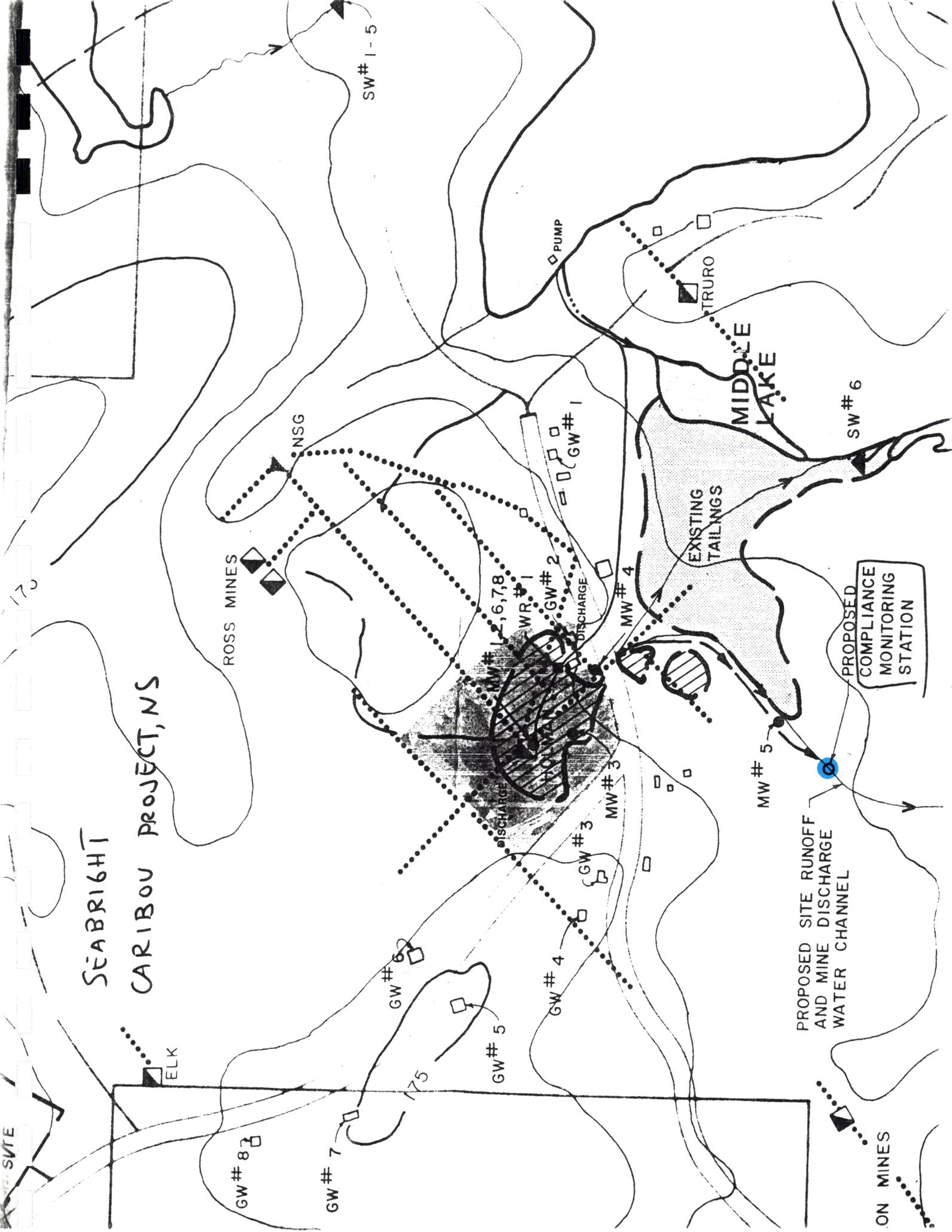
.....PARAMETER .....	..... VALUE	UNITS
1: 050 /MERCURY (TOTAL).....	0.00010	MG/L

C A R I B O U M I N E

SITE

173

SCARBRIGHT CARIBOU PROJECT, NS



ROSS MINES

SW# 1-5

NSG

PUMP

TRURO

MIDDLE LAKE

SW# 6

EXISTING TAILINGS

GW# 1

WR # 1

MW # 1, 2, 6, 7, 8

GW# 2

DISCHARGE

MW # 4

PROPOSED COMPLIANCE MONITORING STATION

MW # 5

PROPOSED SITE RUNOFF AND MINE DISCHARGE WATER CHANNEL

MW # 3

GW# 3

GW# 4

GW# 5

GW# 6

GW# 8

GW# 7

ELK

175

ON MINES

 * 87RF039 - ROY PARKER STATUS AS OF JAN 22, 1988 *

REGISTERED ON: JUL 9, 1987, BY :ANDRE

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 6/ 7/87 (JUL 6, 1987), TIME: 1000, FREQ: 1
 SAMPLING ENDED, DATE: 6/ 7/87 (JUL 6, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:

NARRATIVE: MINE WATER, CARIBOU MINES, SEABRIGHT
 DEWATERING BEGAN 6/7/87, 09:07

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001 /PH.....	6.7	
2: 001F/PH.....	6.1	
3: 005 /HARDNESS.....	65.	MG/L
4: 020 /SUSPENDED SOLIDS (SS).....	200.	MG/L
5: 022 /MAGNESIUM (TOTAL).....	4.83	MG/L
6: 036 /CALCIUM (TOTAL).....	17.6	MG/L
7: 044 /ARSENIC (TOTAL).....	L.05	MG/L
8: 046 /CADMIUM (TOTAL).....	L.01	MG/L
9: 047 /CHROMIUM (TOTAL).....	L.01	MG/L
10: 048 /COPPER (TOTAL).....	.01	MG/L
11: 049 /IRON (TOTAL).....	1.76	MG/L
12: 050 /MERCURY (TOTAL).....	0.00015	MG/L
13: 051 /LEAD (TOTAL).....	L.02	MG/L
14: 054 /ZINC (TOTAL).....	.01	MG/L
15: 159 /NICKEL (TOTAL).....	.01	MG/L
16: 160 /MANGANESE (TOTAL).....	1.10	MG/L
17: 162 /ALUMINUM (TOTAL).....	L.025	MG/L
18: 171 /FLUORIDE.....	L0.25	MG/L

* 87SPG43 - ROY PARKER STATUS AS OF AUG 31, 1987 *

REGISTERED ON: JUL 15, 1987, BY :ANDRE

LOCATOR: SPECN801/SPECIAL SAMPLES: N.S.

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN: DATE: 15/ 7/87 (JUL 15, 1987), TIME: 1100, FREQ: 1

SAMPLING ENDED: DATE: 15/ 7/87 (JUL 15, 1987), TIME: 1100

DEPTH: .00 METERS- TIDE:

NARRATIVE: CARIBOU MINE-SEABRIGHT, FINAL EFFLUENT
JUST BELOW LAST BAFFLE

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001 /PH.....	7.8	
2: 001F/PH.....	7.2	
3: 005 /HARDNESS.....	160.	MG/L
4: 020 /SUSPENDED SOLIDS (SS).....	12.	MG/L
5: 022 /MAGNESIUM (TOTAL).....	9.58	MG/L
6: 036 /CALCIUM (TOTAL).....	50.6	MG/L
7: 044 /ARSENIC (TOTAL).....	.13	MG/L
8: 046 /CADMIUM (TOTAL).....	L.01	MG/L
9: 047 /CHROMIUM (TOTAL).....	L.01	MG/L
10: 048 /COPPER (TOTAL).....	L.01	MG/L
11: 049 /IRON (TOTAL).....	.18	MG/L
12: 051 /LEAD (TOTAL).....	L.02	MG/L
13: 054 /ZINC (TOTAL).....	L.01	MG/L
14: 159 /NICKEL (TOTAL).....	L.01	MG/L
15: 160 /MANGANESE (TOTAL).....	.65	MG/L
16: 162 /ALUMINUM (TOTAL).....	L.025	MG/L
17: 500 /RIDASSAY	*DONE*	

W. Roy Parker, Head
Mineral Industries & Toxic Studies
Air & Water Branch
Conservation and Protection

J. David A. Vaughan
Aquatic Toxicology Section
Laboratory Division
Air & Water Branch

SECURITY - CLASSIFICATION - DE SÉCURITÉ
OUR FILE / NOTRE RÉFÉRENCE 4705-37/S40
YOUR FILE / VOTRE RÉFÉRENCE
DATE 28 August 1987

SUBJECT
OBJET

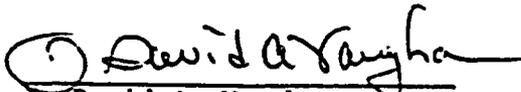
BIOASSAY RESULTS - SEABRIGHT RESOURCES, CARIBOU MINES

On July 15, 1987, Andre Gauthier collected a grab sample of final effluent from Seabright Resources Caribou Mines.

On July 16, 1987, a 96-hour acute lethal static bioassay was begun on this sample using rainbow trout fingerling of mean weight 3.8 ± 1.4 g as the test organism.

The effluent was non-acutely lethal to the test fish.

A copy of the Bioassay Report is attached which provides further test details.


J. David A. Vaughan

JDAV/ldl

Attachment (1)

cc: P. Hennebury
H. Samant
K. Doe
J. Turner, NSDOE

COPPER LAKE, COXHEATH, TANGIER



COPPER LAKE

3400N

* 87RP002 - ROY PARKER

STATUS AS OF JAN 28, 1987

REGISTERED ON: JAN 7, 1987 BY ANDRE

LOCATOR: SPECNS01/SPECIAL SAMPLES, N.S.

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 7/ 1/87 (JAN 7, 1987); TIME: 915, FREQ: 1

SAMPLING ENDED, DATE: 7/ 1/87 (JAN 7, 1987); TIME: 915

DEPTH: .00 METERS, TIDE:

NARRATIVE: EFFLUENT FROM COPPER LAKE

COXHEATH, TANGIER

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001 /PH.....	6.4	
2: 005 /HARDNESS.....	10.	MG/L
3: 020 /SUSPENDED SOLIDS (SS).....	15.	MG/L
4: 022 /MAGNESIUM.....	.92	MG/L
5: 036 /CALCIUM.....	2.27	MG/L
6: 044 /ARSENIC (TOTAL).....	L.05	MG/L
7: 046 /CADMIUM (TOTAL).....	L.01	MG/L
8: 047 /CHROMIUM (TOTAL).....	.02	MG/L
9: 048 /COPPER (TOTAL).....	L.01	MG/L
10: 049 /IRON (TOTAL).....	.07	MG/L
11: 051 /LEAD (TOTAL).....	L.02	MG/L
12: 054 /ZINC (TOTAL).....	L.01	MG/L
13: 159 /NICKEL (TOTAL).....	L.01	MG/L
14: 160 /MANGANESE (TOTAL).....	L.01	MG/L
15: 162 /ALUMINUM (TOTAL).....	L.025	MG/L

* 87RP003 - ROY PARKER STATUS AS OF JAN 28, 1987 *

REGISTERED ON: JAN 7, 1987; BY SANDRE

LOCATOR: SPECNS01/SPECIAL SAMPLES; N.S.

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 7/ 1/87 (JAN 7, 1987); TIME: 930; FREQ: 1

SAMPLING ENDED, DATE: 7/ 1/87 (JAN 7, 1987); TIME: 930

DEPTH: .00 METERS; TIDE:

NARRATIVE: FINAL EFFLUENT

JUST ABOVE MASON'S POND

---- SAMPLE ANALYSIS ----

.....PARAMETER.....	..... VALUE	UNITS
1: 001 /PH.....	6.6	
2: 005 /HARDNESS.....	35.	MG/L
3: 020 /SUSPENDED SOLIDS (SS).....	LS.	MG/L
4: 022 /MAGNESIUM.....	3.16	MG/L
5: 036 /CALCIUM.....	9.65	MG/L
6: 044 /ARSENIC (TOTAL).....	L.05	MG/L
7: 046 /CADMIUM (TOTAL).....	L.01	MG/L
8: 047 /CHROMIUM (TOTAL).....	L.01	MG/L
9: 048 /COPPER (TOTAL).....	.01	MG/L
10: 049 /IRON (TOTAL).....	.58	MG/L
11: 051 /LEAD (TOTAL).....	L.02	MG/L
12: 054 /ZINC (TOTAL).....	L.01	MG/L
13: 159 /NICKEL (TOTAL).....	L.01	MG/L
14: 160 /MANGANESE (TOTAL).....	.09	MG/L
15: 162 /ALUMINUM (TOTAL).....	.53	MG/L

* 87RF004 - ROY PARKER STATUS AS OF FEB 18, 1987 *

REGISTERED ON: JAN 21, 1987, BY :ANDRE

LOCATOR: COXHTHO2/COXHEATH GOLD MINE, TANGIER
COPPER LAKE OUTLET

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 21/ 1/87 (JAN 21, 1987), TIME: 730, FREQ: 1
SAMPLING ENDED, DATE: 21/ 1/87 (JAN 21, 1987), TIME: 730

DEPTH: .00 METERS, TIDE:

NARRATIVE: EFFLUENT FROM COPPER LAKE
TANGIER, COXHEATH

---- SAMPLE ANALYSIS ----

.....	PARAMETER	VALUE	UNITS
1:	001 /PH.....	6.4	
2:	005 /HARDNESS.....	13.	MG/L
3:	020 /SUSPENDED SOLIDS (SS).....	L5.	MG/L
4:	022 /MAGNESIUM.....	1.16	MG/L
5:	036 /CALCIUM.....	3.19	MG/L
6:	044 /ARSENIC (TOTAL).....	L.05	MG/L
7:	046 /CADMIUM (TOTAL).....	L.01	MG/L
8:	047 /CHROMIUM (TOTAL).....	L.01	MG/L
9:	048 /COPPER (TOTAL).....	L.01	MG/L
10:	049 /IRON (TOTAL).....	.06	MG/L
11:	051 /LEAD (TOTAL).....	L.02	MG/L
12:	054 /ZINC (TOTAL).....	L.01	MG/L
13:	159 /NICKEL (TOTAL).....	L.01	MG/L
14:	160 /MANGANESE (TOTAL).....	.01	MG/L
15:	162 /ALUMINUM (TOTAL).....	L.025	MG/L

* 87RF005 - ROY PARKER STATUS AS OF FEB 18, 1987 *

REGISTERED ON: JAN 21, 1987, BY :ANDRE

LOCATOR: COXHTH01/COXHEATH GOLD MINE, TANGIER
FINAL EFFLUENT

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 21/ 1/87 (JAN 21, 1987), TIME: 745, FREQ: 1
SAMPLING ENDED, DATE: 21/ 1/87 (JAN 21, 1987), TIME: 745

DEPTH: .00 METERS, TIDE:

NARRATIVE: FINAL EFFLUENT, JUST ABOVE MASON'S POND
TANGIER, COXHEATH

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	6.6		
2:	005 /HARDNESS.....	52.		MG/L
3:	020 /SUSPENDED SOLIDS (SS).....	40.		MG/L
4:	022 /MAGNESIUM.....	4.40		MG/L
5:	036 /CALCIUM.....	13.5		MG/L
6:	044 /ARSENIC (TOTAL).....	.08		MG/L
7:	046 /CADMIUM (TOTAL).....	L.01		MG/L
8:	047 /CHROMIUM (TOTAL).....	L.01		MG/L
9:	048 /COPPER (TOTAL).....	L.01		MG/L
10:	049 /IRON (TOTAL).....	1.27		MG/L
11:	051 /LEAD (TOTAL).....	L.02		MG/L
12:	054 /ZINC (TOTAL).....	.06		MG/L
13:	159 /NICKEL (TOTAL).....	L.01		MG/L
14:	160 /MANGANESE (TOTAL).....	.36		MG/L
15:	162 /ALUMINUM (TOTAL).....	.68		MG/L

* 87RP011 - ROY PARKER STATUS AS OF MAR 6, 1987 *

REGISTERED ON: FEB 12, 1987, BY :ANDRE

LOCATOR: COXHTH01/COXHEATH GOLD MINE, TANGIER
FINAL EFFLUENT

PROV: MS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 12/ 2/87 (FEB 12, 1987), TIME: 930, FREQ: 1
SAMPLING ENDED, DATE: 12/ 2/87 (FEB 12, 1987), TIME: 930

DEPTH: .00 METERS, TIDE:

NARRATIVE:

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	7.0	
2: 020 /SUSPENDED SOLIDS (SS).....	100.	MG/L

LMS>

* 87RP012 - ROY PARKER STATUS AS OF APR 10, 1987 *

REGISTERED ON: MAR 31, 1987, BY :ANDRE

LOCATOR: COXH01/COXHEATH GOLD MINE, TANGIER
FINAL EFFLUENT

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 31/ 3/87 (MAR 31, 1987), TIME: 930, FREQ: 1
SAMPLING ENDED, DATE: 31/ 3/87 (MAR 31, 1987), TIME: 930

DEPTH: .00 METERS, TIDE:
NARRATIVE: FINAL EFFLUENT

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	6.53		
2:	005 /HARDNESS.....	48.		MG/L
3:	020 /SUSPENDED SOLIDS (SS).....	8.		MG/L
4:	022 /MAGNESIUM (TOTAL).....	4.38		MG/L
5:	036 /CALCIUM (TOTAL).....	12.0		MG/L
6:	044 /ARSENIC (TOTAL).....	.15		MG/L
7:	046 /CADMIUM (TOTAL).....	L.01		MG/L
8:	047 /CHROMIUM (TOTAL).....	L.01		MG/L
9:	048 /COPPER (TOTAL).....	.01		MG/L
10:	049 /IRON (TOTAL).....	1.75		MG/L
11:	051 /LEAD (TOTAL).....	.03		MG/L
12:	054 /ZINC (TOTAL).....	.01		MG/L
13:	159 /NICKEL (TOTAL).....	L.01		MG/L
14:	160 /MANGANESE (TOTAL).....	.93		MG/L
15:	162 /ALUMINUM (TOTAL).....	.43		MG/L

* 87RP013 - ROY PARKER STATUS AS OF APR 10, 1987 *

REGISTERED ON: MAR 31, 1987, BY ANDRE

LOCATOR: COXHTH00/COXHEATH GOLD MINE, TANGIER
GENERAL

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 31/ 3/87 (MAR 31, 1987), TIME: 930, FREQ: 1
SAMPLING ENDED, DATE: 31/ 3/87 (MAR 31, 1987), TIME: 930

DEPTH: .00 METERS, TIDE:

NARRATIVE: STREAM BELOW MINE CROSSING HWY 7
DOWNSTREAM OF CULVERT (TO RUSH LAKE)

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	6.80		
2:	005 /HARDNESS.....	50.		MG/L
3:	020 /SUSPENDED SOLIDS (SS).....	2.		MG/L
4:	022 /MAGNESIUM (TOTAL).....	4.42		MG/L
5:	036 /CALCIUM (TOTAL).....	12.7		MG/L
6:	044 /ARSENIC (TOTAL).....	L.05		MG/L
7:	046 /CADMIUM (TOTAL).....	L.01		MG/L
8:	047 /CHROMIUM (TOTAL).....	L.01		MG/L
9:	048 /COPPER (TOTAL).....	.01		MG/L
10:	049 /IRON (TOTAL).....	.90		MG/L
11:	051 /LEAD (TOTAL).....	L.02		MG/L
12:	054 /ZINC (TOTAL).....	.01		MG/L
13:	159 /NICKEL (TOTAL).....	L.01		MG/L
14:	160 /MANGANESE (TOTAL).....	1.07		MG/L
15:	162 /ALUMINUM (TOTAL).....	.13		MG/L

* 87RF061 - ROY PARKER STATUS AS OF DEC 7, 1987 *

REGISTERED ON: SEP 29, 1987, BY ANDRE

LOCATOR: COXHTH01/COXHEATH GOLD MINE, TANGIER
FINAL EFFLUENT

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 28/ 9/87 (SEP 28, 1987), TIME: 1015, FREQ: 1
SAMPLING ENDED, DATE: 28/ 9/87 (SEP 28, 1987), TIME: 1015

DEPTH: .00 METERS, TIDE:

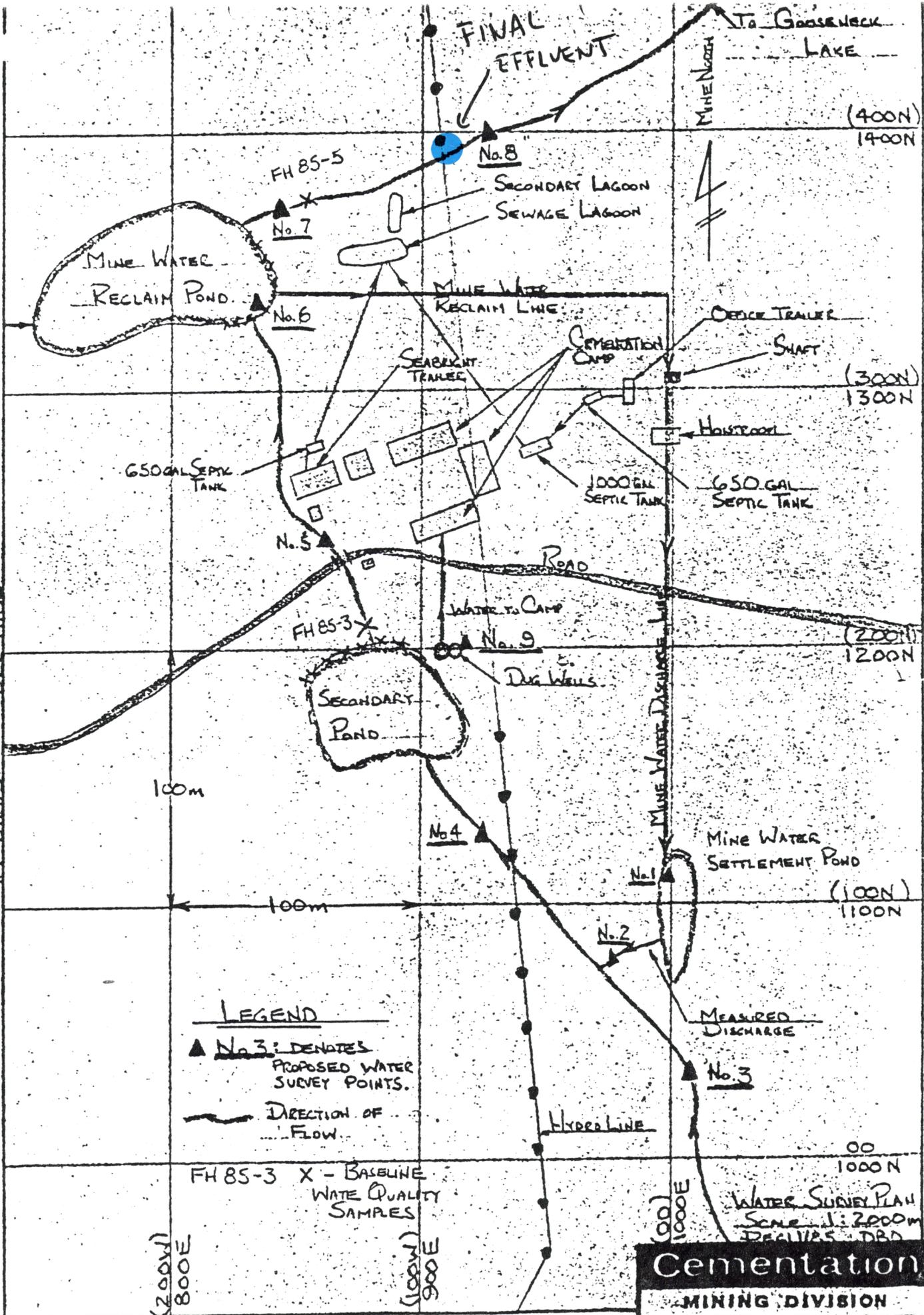
NARRATIVE:

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	4.9		
2:	005 /HARDNESS.....	100.		MG/L
3:	020 /SUSPENDED SOLIDS (SS).....	LS.		MG/L
4:	022 /MAGNESIUM (TOTAL).....	9.09		MG/L
5:	036 /CALCIUM (TOTAL).....	27.2		MG/L
6:	044 /ARSENIC (TOTAL).....	L.05		MG/L
7:	046 /CADMIUM (TOTAL).....	L.01		MG/L
8:	047 /CHROMIUM (TOTAL).....	L.02		MG/L
9:	048 /COPPER (TOTAL).....	L0.01		MG/L
10:	049 /IRON (TOTAL).....	.28		MG/L
11:	051 /LEAD (TOTAL).....	L.02		MG/L
12:	054 /ZINC (TOTAL).....	L.01		MG/L
13:	159 /NICKEL (TOTAL).....	L.01		MG/L
14:	160 /MANGANESE (TOTAL).....	.49		MG/L
15:	162 /ALUMINUM (TOTAL).....	L.025		MG/L

F O R E S T H I L L S

SEABRIGHT RESOURCES INC.
 FOREST HILL PROJECT
 BY D.B.O. DEC 11/85



LEGEND

▲ No. 3: DENOTES PROPOSED WATER SURVEY POINTS.

— DIRECTION OF FLOW

FH 85-3 X - BASELINE WATER QUALITY SAMPLES

WATER SURVEY PLAN
 Scale 1:2000m
 DEC 11/85 DBO

Cementation
 MINING DIVISION

 * 87RF026 - ROY PARKER STATUS AS OF JUL 16, 1987 *

REGISTERED ON: MAY 22, 1987; BY :ROY P

LOCATOR: FORHILO2/FOREST HILLS
 50 M. BELOW 3'RD SETTL POND AT POWR LINE PROV: NS
 PROJECT CODE: 235/ENV. CONTROL METAL MINING

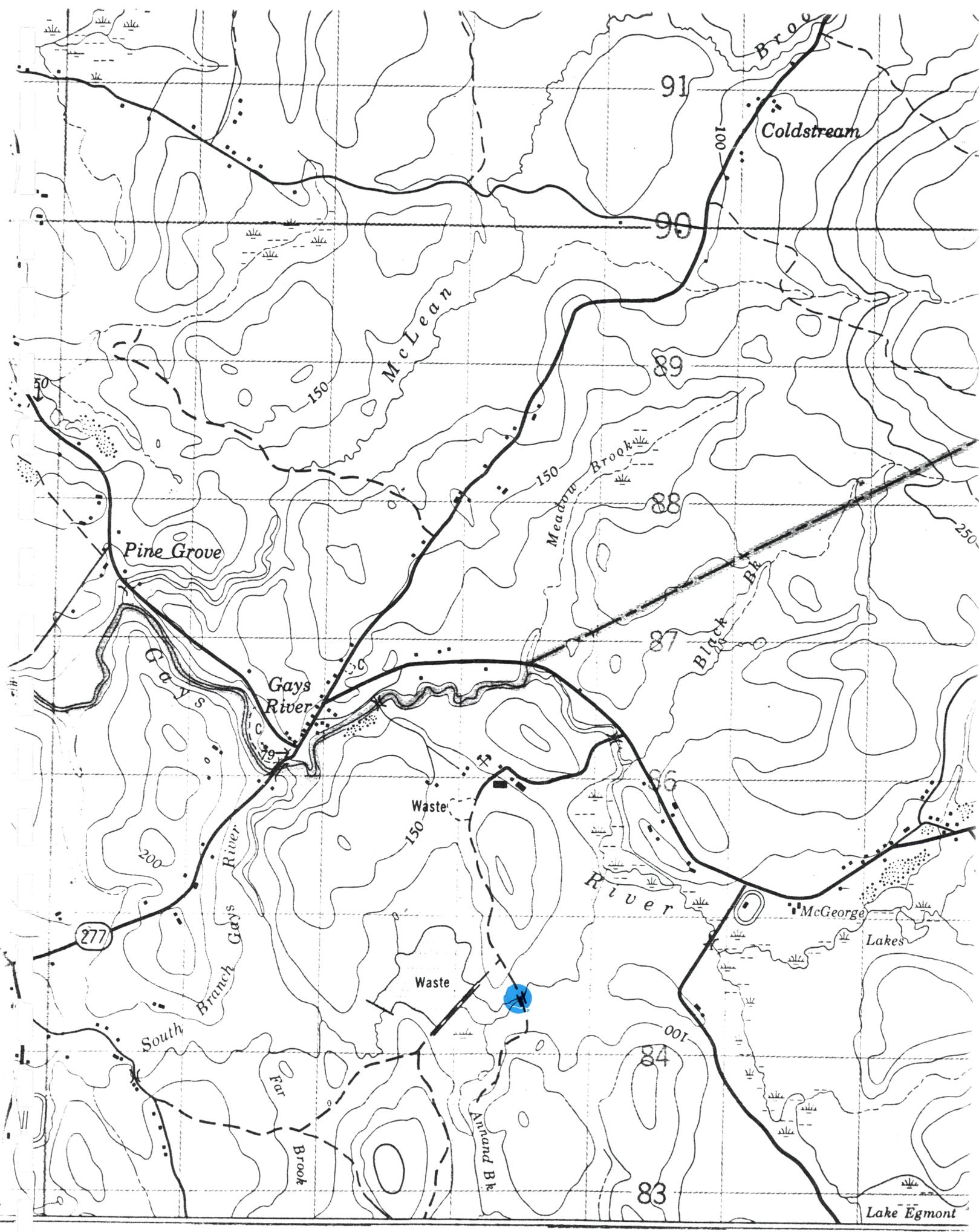
SAMPLING BEGAN, DATE: 21/ 5/87 (MAY 21, 1987), TIME: 1520, FREQ: 1
 SAMPLING ENDED, DATE: 21/ 5/87 (MAY 21, 1987), TIME: 1520

DEPTH: .00 METERS, TIDE:
 NARRATIVE:

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	6.7		
2:	001F/PH.....	6.2		
3:	020 /SUSPENDED SOLIDS (SS).....	L5.		MG/L
4:	022 /MAGNESIUM (TOTAL).....	1.37		MG/L
5:	036 /CALCIUM (TOTAL).....	4.54		MG/L
6:	044 /ARSENIC (TOTAL).....	L.05		MG/L
7:	046 /CADMIUM (TOTAL).....	L.01		MG/L
8:	047 /CHROMIUM (TOTAL).....	L.01		MG/L
9:	048 /COPPER (TOTAL).....	L.01		MG/L
10:	049 /IRON (TOTAL).....	.83		MG/L
11:	050 /MERCURY (TOTAL).....	"NO SAMPLE"		MG/L
12:	051 /LEAD (TOTAL).....	L.02		MG/L
13:	052 /ANTIMONY (TOTAL).....	L0.2		MG/L
14:	054 /ZINC (TOTAL).....	.01		MG/L
15:	159 /NICKEL (TOTAL).....	L.01		MG/L
16:	160 /MANGANESE (TOTAL).....	.29		MG/L
17:	162 /ALUMINUM (TOTAL).....	.10		MG/L
18:	204 /MOLYBDENUM (MO)	L.01		MG/L

G A Y S R I V E R M I N E



Coldstream

McLean

Pine Grove

Gays River

277

Branch Gays River

South

Far Brook

Amund Br

Waste

Waste

McGeorge

Lakes

Lake Egmont

* 87RF036 - ROY PARKER STATUS AS OF JUL 16, 1987 *

REGISTERED ON: JUN 10, 1987, BY :ANDRE

LOCATOR: GAYSMN11/GAYS RIVER MINE
FINAL EFFLUENT PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN: DATE: 10/ 6/87 (JUN 10, 1987); TIME: 1015; FREQ: 1
SAMPLING ENDED: DATE: 10/ 6/87 (JUN 10, 1987); TIME: 1015

DEPTH: .00 METERS, TIDE:

NARRATIVE: EFFLUENT FROM RECLAIM POND (FINAL)

---- SAMPLE ANALYSIS ----

.....	PARAMETER	VALUE	UNITS
1:	001 /PH.....	7.1	
2:	005 /HARDNESS.....	60.	MG/L
3:	020 /SUSPENDED SOLIDS (SS).....	LS.	MG/L
4:	022 /MAGNESIUM (TOTAL).....	2.33	MG/L
5:	036 /CALCIUM (TOTAL).....	19.9	MG/L
6:	044 /ARSENIC (TOTAL).....	0.06	MG/L
7:	046 /CADMIUM (TOTAL).....	LO.01	MG/L
8:	047 /CHROMIUM (TOTAL).....	0.01	MG/L
9:	048 /COPPER (TOTAL).....	LO.01	MG/L
10:	049 /IRON (TOTAL).....	0.21	MG/L
11:	050 /MERCURY (TOTAL).....	0.00045	MG/L
12:	051 /LEAD (TOTAL).....	LO.02	MG/L
13:	054 /ZINC (TOTAL).....	LO.01	MG/L
14:	159 /NICKEL (TOTAL).....	LO.01	MG/L
15:	160 /MANGANESE (TOTAL).....	0.10	MG/L
16:	162 /ALUMINUM (TOTAL).....	LO.025	MG/L

* 87RP037 - ROY PARKER

STATUS AS OF JUL 16, 1987 *

REGISTERED ON: JUN 10, 1987, BY :ANDRE

LOCATOR: GAYSMN12/GAYS RIVER MINE

MILL EFFL(TO TAILINGS POND)

PROV: NS

PROJECT CODE: 235/ENV. CONTROL METAL MINING

SAMPLING BEGAN, DATE: 10/ 6/87 (JUN 10, 1987), TIME: 1030, FREQ: 1

SAMPLING ENDED, DATE: 10/ 6/87 (JUN 10, 1987), TIME: 1030

DEPTH: .00 METERS, TIDE:

NARRATIVE: TAILINGS DISCHARGE, SUPERNATANT

(DISCHARGE IS 20% SOLIDS)

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	7.3	
2: 005 /HARDNESS.....	180.	MG/L
3: 020 /SUSPENDED SOLIDS (SS).....	L5.	MG/L
4: 022 /MAGNESIUM (TOTAL).....	6.35	MG/L
5: 022D/MAGNESIUM (DISSOLVED).....	6.05	MG/L
6: 036 /CALCIUM (TOTAL).....	62.2	MG/L
7: 036D/CALCIUM (DISSOLVED).....	60.6	MG/L
8: 044 /ARSENIC (TOTAL).....	0.08	MG/L
9: 044D/ARSENIC(DISSOLVED).....	0.11	MG/L
10: 046 /CADMIUM (TOTAL).....	L0.01	MG/L
11: 046D/CADMIUM DISSOLVED.....	L0.01	MG/L
12: 047 /CHROMIUM (TOTAL).....	L0.01	MG/L
13: 047D/CHROMIUM(DISSOLVED).....	0.04	MG/L
14: 048 /COPPER (TOTAL).....	L0.01	MG/L
15: 048D/COPPER DISSOLVED.....	L0.01	MG/L
16: 049 /IRON (TOTAL).....	0.42	MG/L
17: 049D/IRON DISSOLVED.....	0.04	MG/L
18: 050 /MERCURY (TOTAL).....	0.00005	MG/L
19: 051 /LEAD (TOTAL).....	L0.02	MG/L
20: 051D/LEAD DISSOLVED.....	L0.02	MG/L
21: 054 /ZINC (TOTAL).....	0.01	MG/L
22: 054D/ZINC DISSOLVED.....	L0.01	MG/L
23: 159 /NICKEL (TOTAL).....	L0.01	MG/L
24: 159D/NICKEL DISSOLVED.....	L0.01	MG/L
25: 160 /MANGANESE (TOTAL).....	0.10	MG/L
26: 160D/MANGANESE(DISSOLVED).....	0.09	MG/L
27: 162 /ALUMINUM (TOTAL).....	0.21	MG/L
28: 162D/ALUMINUM(DISSOLVED).....	L0.025	MG/L
29: 500 /BIOASSAY	"DONE"	



TO
A

R. Parker, Head
Metal, Mining & Mill Section
Water Pollution Control Division
Air & Water Branch

FROM
DE

J. Young, Project Biologist
Aquatic Toxicology Section
Laboratory & Shellfish Division
Air & Water Branch

SECURITY - CLASSIFICATION - DE SECURITE
OUR FILE - N/REFERENCE 4705-37/S40
YOUR FILE - V/REFERENCE
DATE 19 June 1987

SUBJECT
OBJET

BIOASSAY RESULTS - SEABRIGHT GAYS RIVER MILL, GAYS RIVER, N. S.

On 11 June 1987, a 96-hour static bioassay using rainbow trout fingerling was begun on a sample of the tailings discharge (Lab Registration No. 87RP037) obtained from Seabright Gays River Mill, Gays River, Nova Scotia. As requested, the sample was allowed to remain undisturbed overnight to facilitate the settling of suspended solid material. The settled sample was subsequently decanted and used in the bioassay. The sample was not acutely lethal to the test fish.

A copy of the Bioassay Report Form is attached which provides additional details of the test.


J. Young

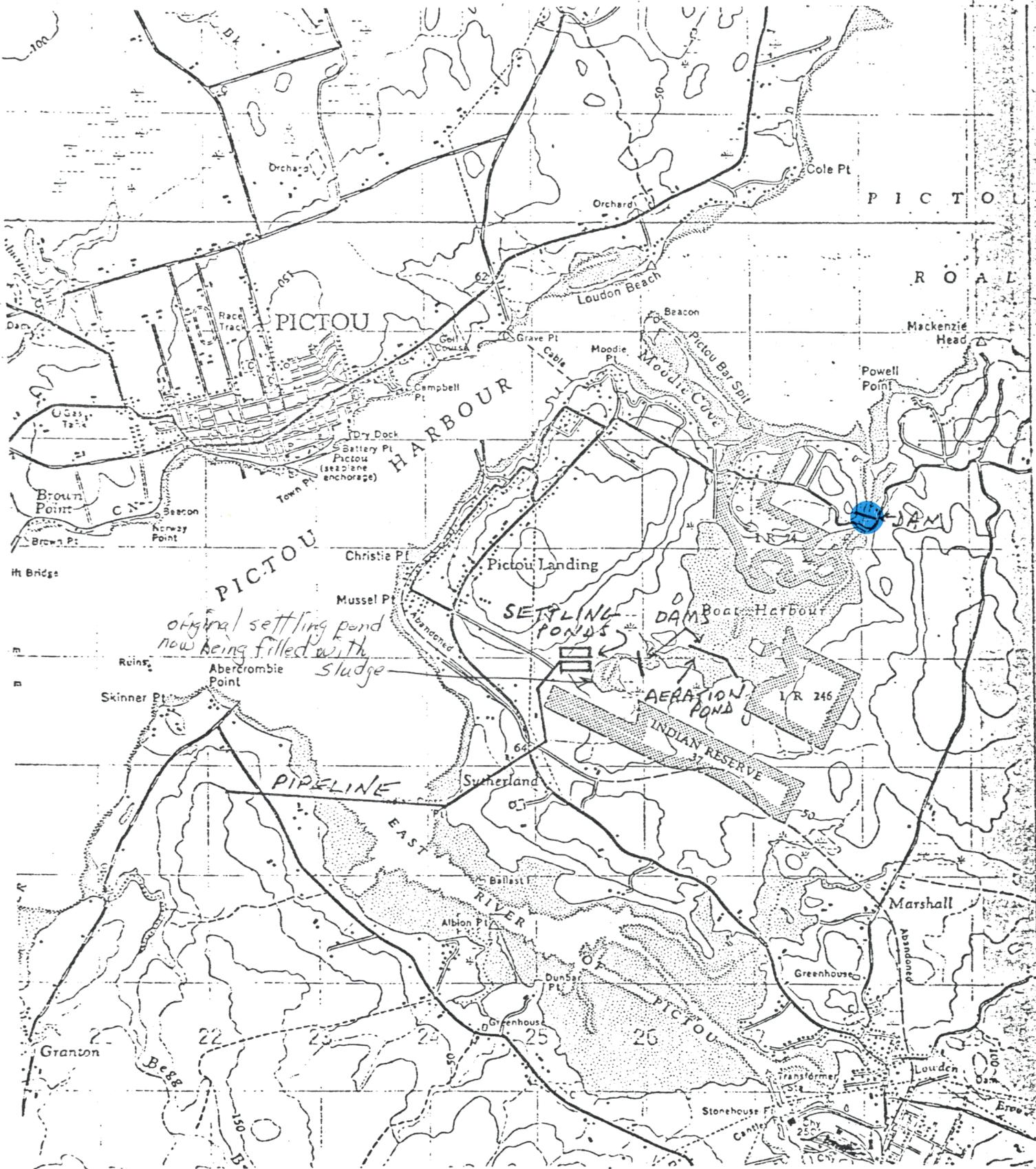
JY/ldl

Attachment (1)

cc: H. Samant
K. Doe
D. Vaughan
J. Turner, NSDOE

SCOTT MARITIMES LTD.

SKETCH PLAN
POLLUTION CONTROL EQUIPMENT



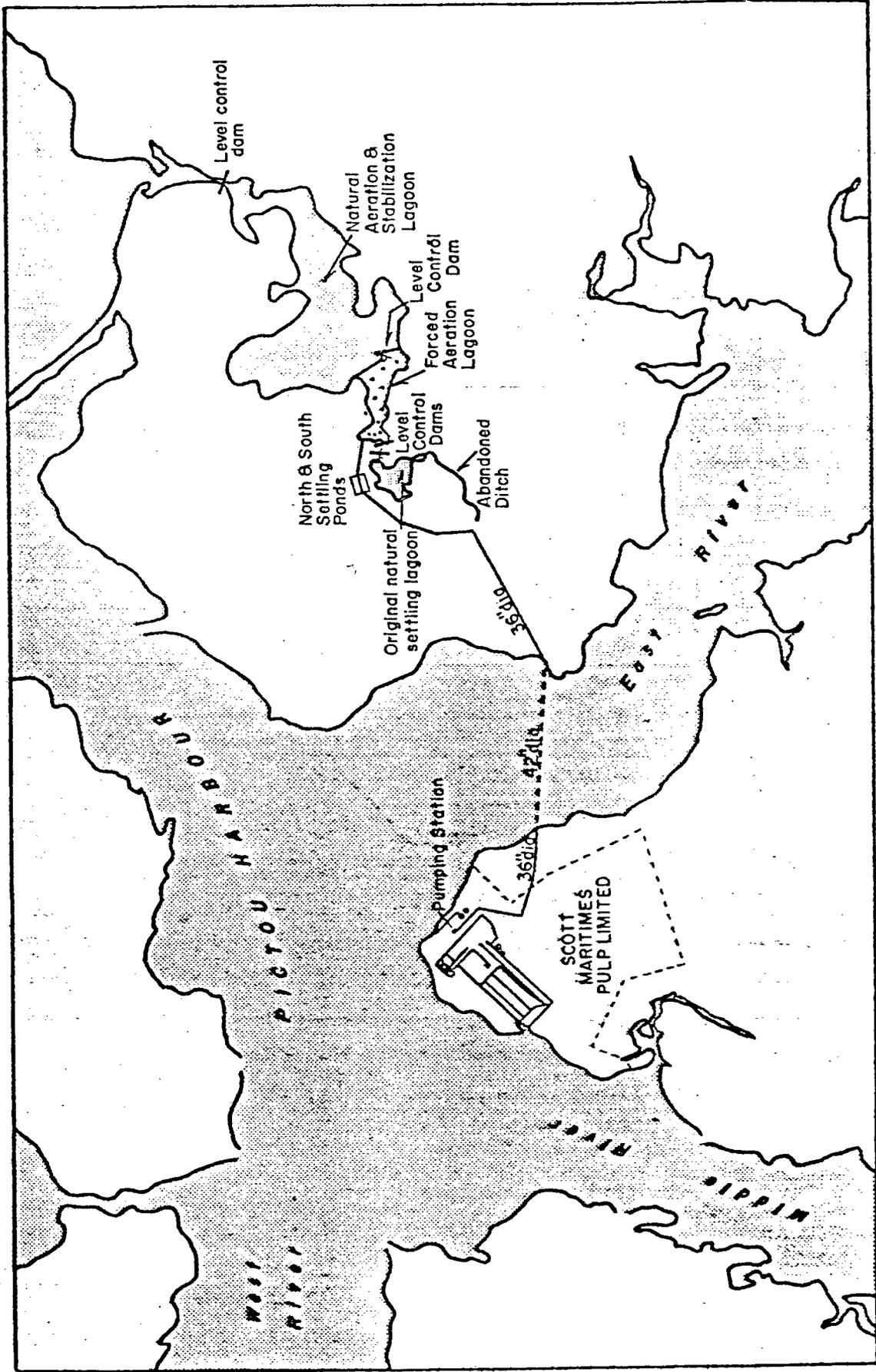


FIGURE 2

Post 1973

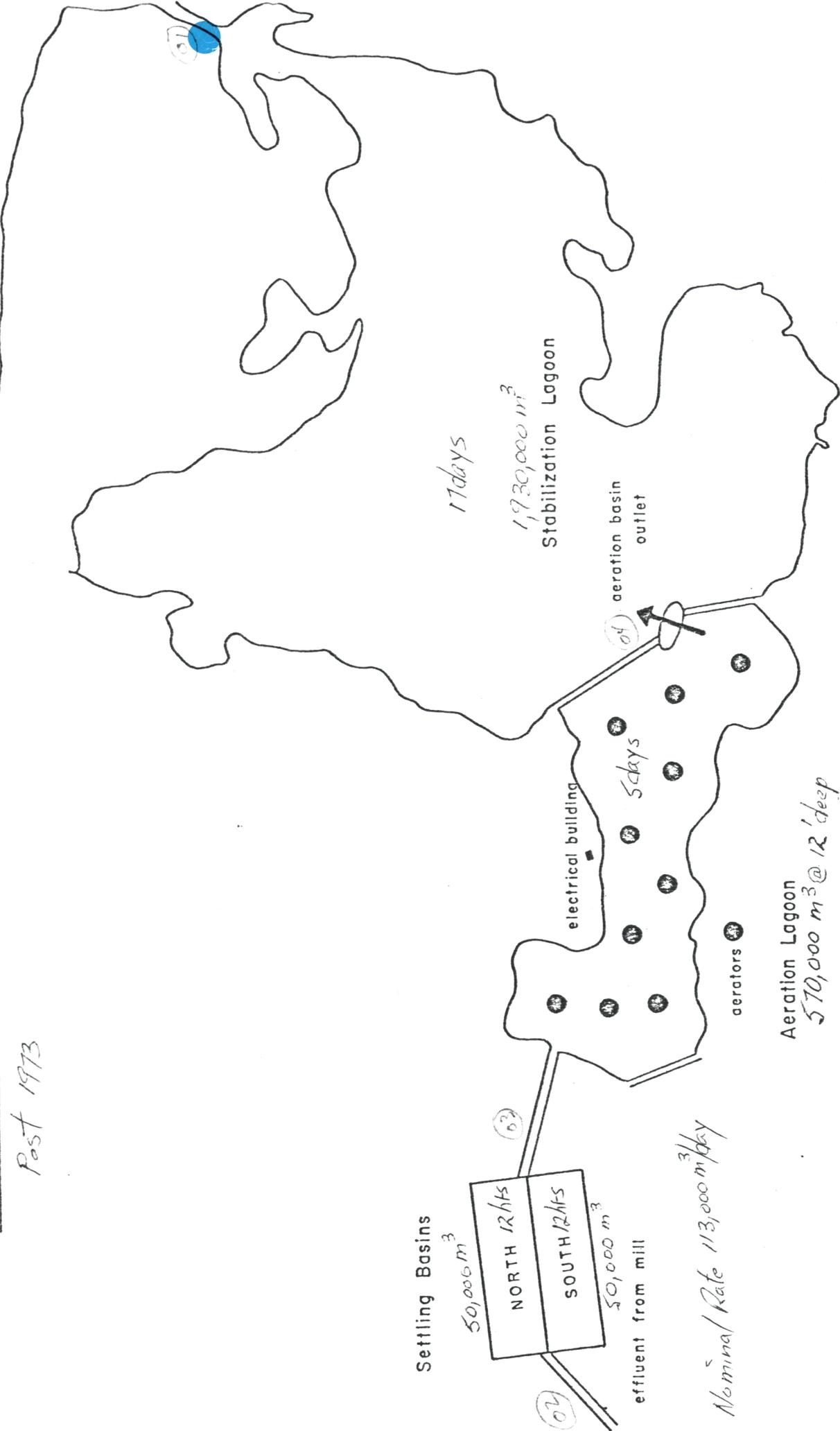


FIGURE 3

MEMORANDUM NOTE DE SERVICE

DATE
December 11, 1987

FROM: D. Vaughan
DE: Laboratory Division
Air & Water Branch, EP, Atlantic Region
Conservation and Protection

Our file / Notre référence
4705-37/S304

TO: G. Trider
A: Water Pollution Control Division
Air & Water Branch, EP, Atlantic Region
Conservation and Protection

Your file / Votre référence

SUBJECT: BIOASSAY RESULTS - SCOTT MARITIMES LEGAL SAMPLE
SUJET:

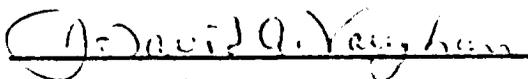
On November 24, 1987, at 1640 hours, I received from Ian McLeod a legal sample of effluent labelled "Scott Maritimes Ltd., November 23, 1987, 2010, final effluent bypass to East River". Since it was a legal sample, continuity of possession was maintained.

On November 25, 1987, at 1430 hours, a 96-hour acute lethal static bioassay was begun on this effluent, using rainbow trout fingerling of mean weight 2.9 ± 0.6 g as the test organism.

The sample was acutely lethal to the test fish. In the full-strength effluent, the five test fish died within 2 hours. At 65% effluent concentration, 60% mortality occurred within 2 hours, and 100% mortality within 7 hours. The 4-day LC50 was 40% (95% conf. limits: 10-65%).

The pH of the effluent was 10.0, a potentially lethal level. Although the observed mortality may have been caused solely by the high pH of the effluent, I suspect an additional toxicant was involved.

A copy of the bioassay report is attached which provides additional test details.



J. David A. Vaughan

JDAV/dg

- cc: H. Samant
- K. Doe
- J. Turner, NSDOE
- P. Hennebury
- R. Gaudet
- R. Parker

* 87NS021 - NOVA SCOTIA STATUS AS OF DEC 18, 1987 *

REGISTERED ON: OCT 1, 1987, BY :NS

LOCATOR: SCOTTM01/SCOTT MARITIMES LTD., ABERCROMBIE
FINAL EFFLUENT FROM BOAT HARBOUR PROV: NS

NORMAL ANALYSIS: 1,11,16,28,46,48,50,54,86,157,162,172
201,235,236,278C,310,421,500,688,689,690

PROJECT CODE: 265/LAB SUPPORT - PREV & CONTR WATER POLL

SAMPLING BEGAN, DATE: 1/10/87 (OCT 1, 1987), TIME: 1000, FREQ: 1
SAMPLING ENDED, DATE: 1/10/87 (OCT 1, 1987), TIME: 1000

DEPTH: .00 METERS, TIDE:
NARRATIVE: SEND COPY TO PENNY

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	7.1	
2: 011 /RESIN ACIDS (RAS).....	LO.1	MG/L
3: 015 /BIOCHEM. OXYGEN DEMAND (BOD)..	13.	MG/L
4: 016 /CHEMICAL OXYGEN DEMAND (COD)..	380.	MG/L
5: 018 /SOLIDS, TOTAL (TS).....	1300.	MG/L
6: 020 /SUSPENDED SOLIDS (SS).....	18.	MG/L
7: 050 /MERCURY (TOTAL).....	0.00020	MG/L
8: 158 /FLOW.....	"NO RESULTS"	IMP G/DAY
9: 500 /BIOASSAY	"DONE"	

TO
A

G. Trider
Water Pollution Control Division
A&W Branch, EP, Atlantic Region
Conservation and Protection

FROM
DE

D. Vaughan
Laboratory Division
A&W Branch, EP, Atlantic Region
Conservation and Protection

SECURITY - CLASSIFICATION - DE SÉCURITÉ
OUR FILE/NOTRE RÉFÉRENCE 4705-37/S304
YOUR FILE/NOTRE RÉFÉRENCE
DATE October 21, 1987

SUBJECT
OBJET

BIOASSAY RESULTS - SCOTT MARITIMES

On October 1, 1987, Penny McLeod of NSDOE collected a grab sample of final effluent from Scott Maritimes Ltd., Abercrombie Point, Pictou Co., Nova Scotia.

On October 1, 1987, a 96-hour acute lethal static bioassay was started on this sample, using rainbow trout fingerling of mean weight of 2.4 ± 0.7 g as the test organism.

The effluent was non-acutely lethal to the test fish.

A copy of the bioassay report is attached which provides additional test details.

J. David A. Vaughan

J. David A. Vaughan

JDAV/dg

Att. (1)

- cc: H. Samant
- K. Doe
- P. McLeod, NSDOE
- J. Turner, NSDOE
- R. Parker

* 87NS002 - NOVA SCOTIA STATUS AS OF SEP 11, 1987 *

REGISTERED ON: JUN 23, 1987; BY :NS

LOCATOR: SCOTTM01/SCOTT MARITIMES LTD., ABERCROMBIE
FINAL EFFLUENT FROM BOAT HARBOUR PROV: NS

NORMAL ANALYSIS: 1, 11, 16, 28, 46, 48, 50, 51, 86, 157, 162, 172
201, 235, 236, 278C, 310, 421, 500, 688, 689, 690

PROJECT CODE: 265/LAB SUPPORT - PREV & CONTR WATER POLL

SAMPLING BEGAN, DATE: 22/ 6/87 (JUN 22, 1987), TIME: 1430, FREQ: 1
SAMPLING ENDED, DATE: 22/ 6/87 (JUN 22, 1987), TIME: 1430

DEPTH: .00 METERS, TIDE:
NARRATIVE:

---- SAMPLE ANALYSIS ----

.....	PARAMETER .....	.....	VALUE	UNITS
1:	001 /PH.....	7.2		
2:	011 /RESIN ACIDS (RAS).....	0.2		MG/L
3:	015 /BIOCHEM. OXYGEN DEMAND (BOD)..	80.		MG/L
4:	016 /CHEMICAL OXYGEN DEMAND (COD)..	430.		MG/L
5:	018 /SOLIDS, TOTAL (TS).....	1800.		MG/L
6:	020 /SUSPENDED SOLIDS (SS).....	330.		MG/L
7:	050 /MERCURY (TOTAL).....	0.00007		MG/L
8:	158 /FLOW.....	26800000.		IMP G/DAY
9:	421 /PRODUCTION	579.		TONNES/DAY
10:	500 /BIOASSAY	"DONE"		

G. L. Trider, Head
Food Processing, Steel & Textile Industries Sec.
Water Pollution Control Division
Air & Water Branch

J. Young, Project Biologist
Aquatic Toxicology Section
Laboratory Division
Air & Water Branch

SECURITY - CLASSIFICATION - DE SÉCURITÉ
OUR FILE - N/RÉFÉRENCE 4705-37/S304
YOUR FILE - V/RÉFÉRENCE
DATE 28 July 1987

FROM
DE

SUBJECT
OBJET
BIOASSAY RESULTS - SCOTT MARITIMES LTD.

On 22 June 1987, P. MacLeod of NSDOE collected a grab sample of final effluent after aeration (Lab. Registration No. 87NS002) from Scott Maritimes Ltd., Abercrombie Pt., Pictou County, Nova Scotia. On 23 June 1987 a 96-hour static bioassay was started on the sample using rainbow trout fingerling. The test organisms died within 19 hours in the effluent (i.e., 100% concentration). However, the fish survived in the 56% concentration throughout the bioassay. The 96-hour LC50 was 74.8%.

A copy of the Bioassay Report Form is attached which provides additional details of the test.

In reviewing earlier bioassays from this plant this result appears to be unusual. Between 1979 and 1986 eleven similar bioassays were conducted all of which showed no mortality to the test fish.

Kenneth G. Doe - for

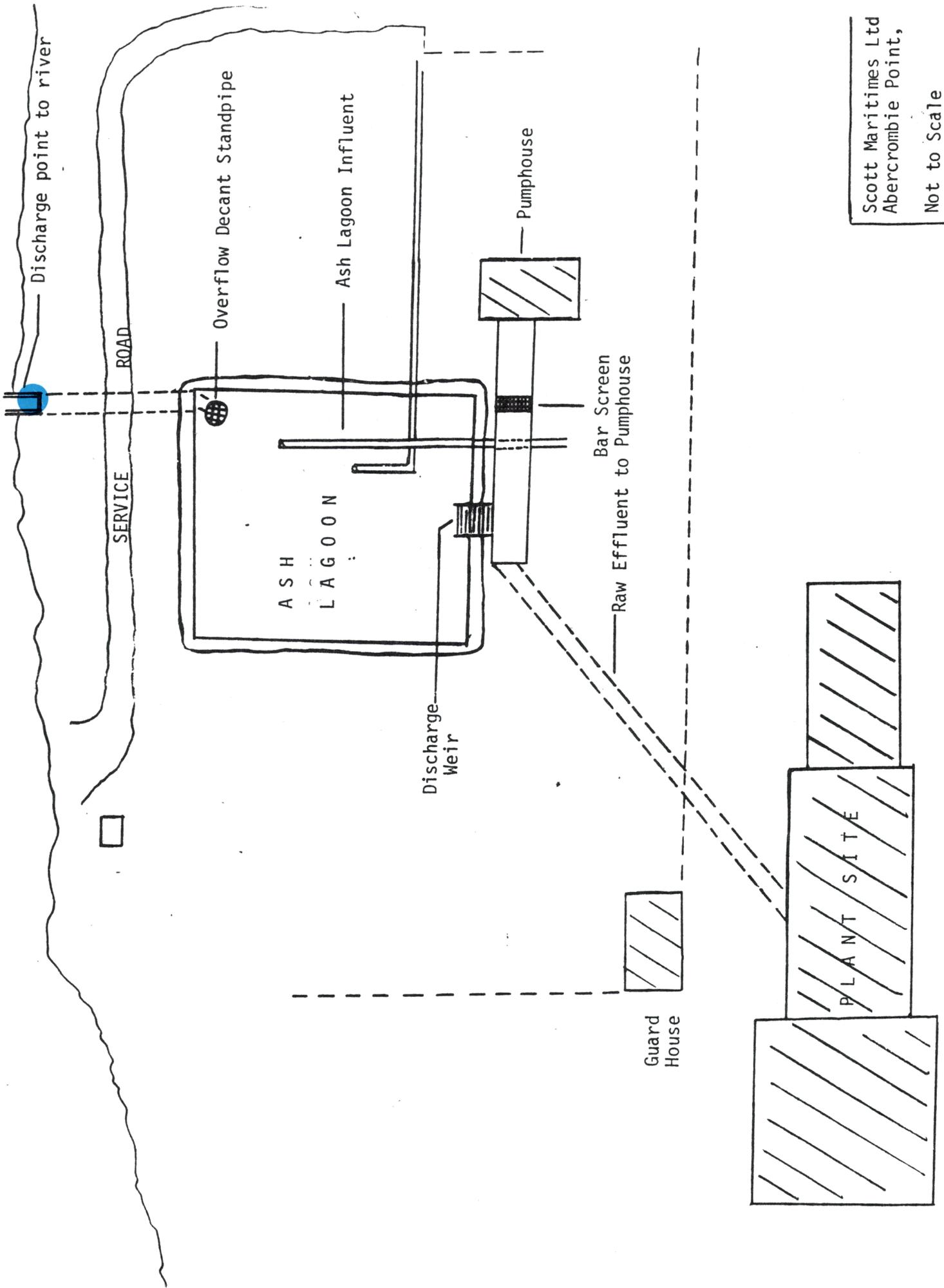
J. Young

JY/ldl

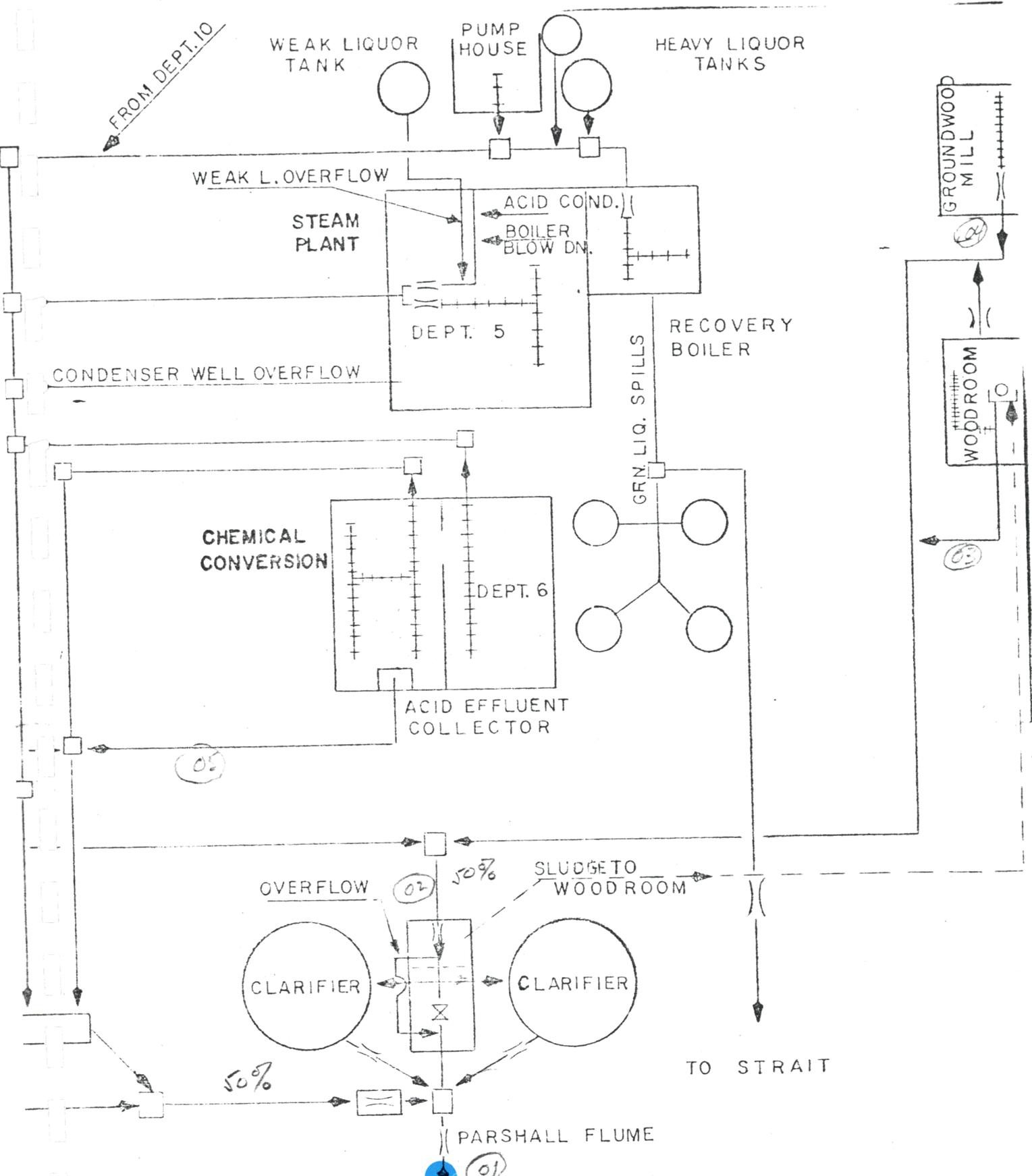
Attachment (1)

cc: H. Samant
- K. Doe
D. Vaughan
J. Turner, NSDOE

STORA FOREST PRODUCTS



Scott Maritimes Ltd
 Abercrombie Point,
 Not to Scale



R/A NO.		NOVA SCOTIA FOREST INDUSTRIES LTD. RICHMOND COUNTY, N.S.	
D. AG.	JAN. 10 th /74	SCALE N T S.	
C.		PROCESS SEWER SCHEMATIC	
A.		FIG. VIII	
		B-0-9284-B	

 * 87GT023 - GARTH TRIDER STATUS AS OF FEB 10, 1988 *

REGISTERED ON: SEP 30, 1987, BY :BOB G

LOCATOR: NSFIND01/STORA FOREST INDUSTRIES, POINT TUPPER PROV: NS
 FINAL EFFLUENT

NORMAL ANALYSIS: 1,11,16,28,46,48,50,54,86,157,162,172
 201,235,236,278C,310,421,500,688,689,690

PROJECT CODE: 237/ENV. CONTROL WOOD PRESERVING P2P

SAMPLING BEGAN, DATE: 29/ 9/87 (SEP 29, 1987); TIME: 800; FREQ: 24
 SAMPLING ENDED, DATE: 30/ 9/87 (SEP 30, 1987); TIME: 800

DEPTH: .00 METERS; TIDE:

NARRATIVE: NEW DEBARKING DRUMS BEING INSTALLED. WOOD
 ROOM OPERATING AT HALF CAPACITY.

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001 /PH.....	2.3	
2: 001F/PH.....	2.4	
3: 011 /RESIN ACIDS (RAS).....	5.1	MG/L
4: 015 /BIOCHEM. OXYGEN DEMAND (BOD)..	490.	MG/L
5: 016 /CHEMICAL OXYGEN DEMAND (COD)..	1700.	MG/L
6: 020 /SUSPENDED SOLIDS (SS).....	290.	MG/L
7: 028 /AMMONIA-N (NH3-N).....	0.09	MG/L
8: 046 /CADMIUM (TOTAL).....	L.01	MG/L
9: 048 /COPPER (TOTAL).....	0.09	MG/L
10: 050 /MERCURY (TOTAL).....	0.00010	MG/L
11: 054 /ZINC (TOTAL).....	.23	MG/L
12: 086 /SULFIDE.....	0.21	MG/L
13: 157 /PENTACHLOROPHENOL.....	0.0019	MG/L
14: 162 /ALUMINUM (TOTAL).....	.31	MG/L
15: 172 /2,3,5,6-TETRACHLOROPHENOL.....	0.0026	MG/L
16: 201 /BERYLLIUM	L.01	MG/L
17: 235 /2,3,4,6 - TETRACHLOROPHENOL ..	*SEE 2,3,5,6 TCP	MG/L
18: 236 /2,3,4,5 - TETRACHLOROPHENOL ..	L0.005	MG/L
19: 272C/PULP PRODUCTION; TOTAL.....	492.	A.D.M. /D
20: 275C/NEWSPRINT PRODUCTION.....	388.796	M.T/D
21: 278C/FLOW.....	105746.	CU M/DAY
22: 417 /BOD 5 (DEPOSIT RATE).....	58.8	KG/TONNE
23: 418 /SS (DEPOSIT RATE).....	34.8	KG/TONNE
24: 500 /BIOASSAY	*DONE*	
25: 650 /SS(DEPOSIT RATE)	30666.	KG/DAY
26: 651 /BOD(DEPOSIT RATE)	51815.	KG/DAY
27: 689 /2,4,6 TRICHLOROPHENOL	0.0047	MG/L
28: 689 /TETRACHLOROQUAIACOL	0.016	MG/L
29: 690 /TETRACHLOROCATECHOL	.	MG/L



Government of Canada

Gouvernement du Canada

MEMORANDUM

NOTE DE SERVICE

TO
A

G. Trider, Head
Food Processing, Steel & Textile Industries Section
Water Pollution Control Division
Air & Water Branch

FROM
DE

J. Young, Project Biologist
Aquatic Toxicology Section
Laboratory Division
Air & Water Branch

SECURITY - CLASSIFICATION - DE SÉCURITÉ
OUR FILE/NOTRE RÉFÉRENCE 4705-37/N137
YOUR FILE/VOTRE RÉFÉRENCE
DATE 18 November 1987

SUBJECT
OBJET

Bioassay Results - Stora Forest Products

On 30 September 1987 R. Gandet collected a sample of the final effluent (Lab Registration No. 87GT023) from the Stora Forest Products pulp and paper mill at Pt. Tupper, Nova Scotia. On 1 October 1987 a 96-hour static bioassay was started on the sample using rainbow trout fingerling. The test organisms died within 1.5 hours in all concentrations down to 3.2%. Forty percent mortality was observed after 96 hours in the 1% concentration. The 96-hour LC50 was 1.2%. The observed mortality could be attributed to low pH, but there is cause for concern for the observed levels of sulphide and resin acids in the effluent.

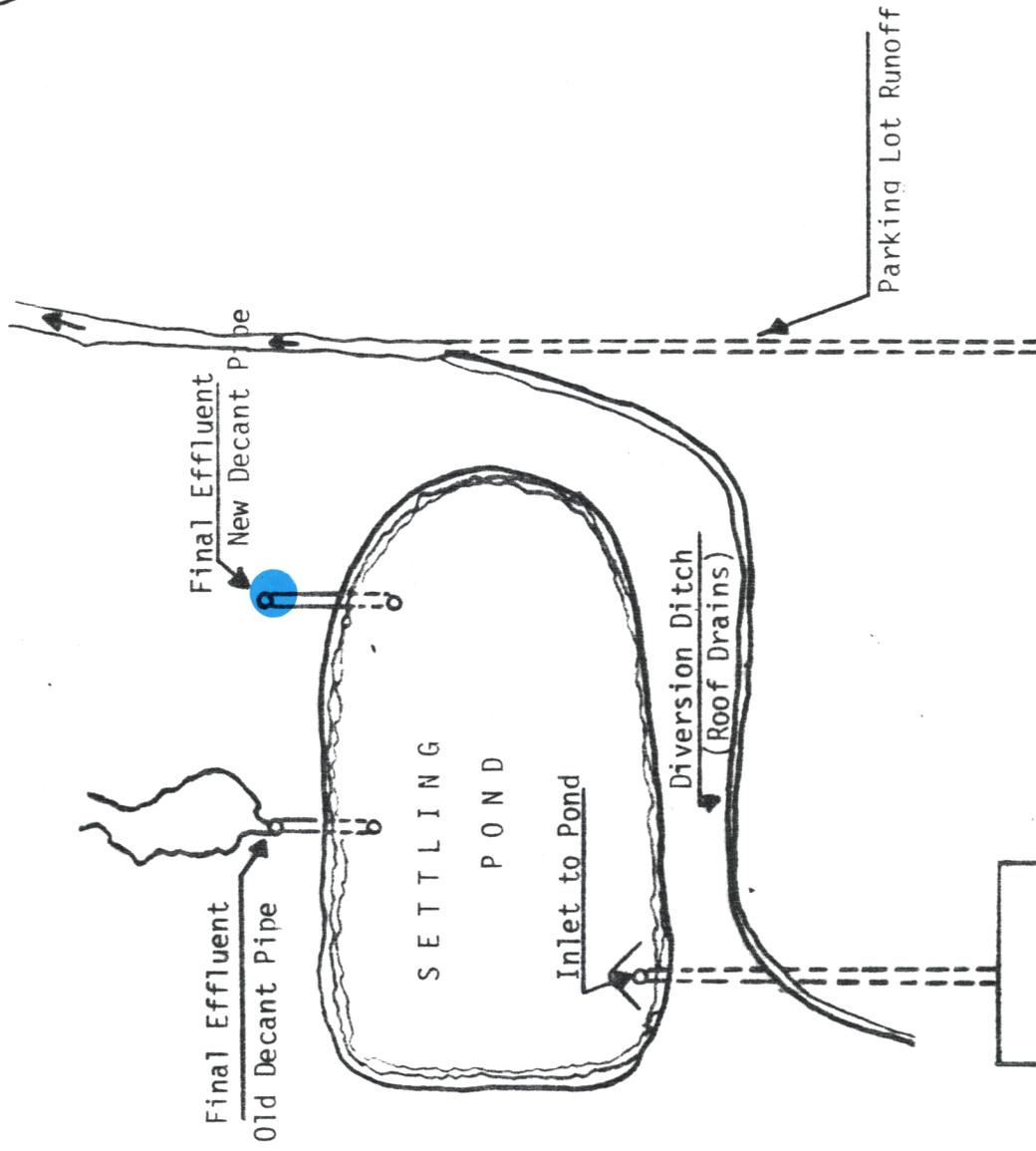
A copy of the Bioassay Report Form is attached which provides additional details of the test.

J. Young

Attachment (1)

- cc: K. Doe
- H. Samant
- R. Parker
- R. [Redacted]
- J. Turner, NSDOE

SURRETTE BATTERY



SURRETTE BATTERY
Springhill, N.S.
Not to scale
25/5/87

* 87JK002 - J.K. (SUE) DAY STATUS AS OF MAY 27, 1987 *

REGISTERED ON: MAR 20, 1987, BY :BOB G

LOCATOR: SURBAT01/SURRETTE BATTERY
FINAL EFFLUENT

PROV: NS

NORMAL ANALYSIS: 1,5,46,51,47,48,49,54,20

PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN, DATE: 11/ 3/87 (MAR 11, 1987), TIME: 1540, FREQ: 1

SAMPLING ENDED, DATE: 11/ 3/87 (MAR 11, 1987), TIME: 1540

DEPTH: .00 METERS, TIDE:

NARRATIVE:

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001F/PH.....	11.95	
2: 051 /LEAD (TOTAL).....	12.0	MG/L
3: 051D/LEAD DISSOLVED.....	12.6	MG/L
4: 500 /BIOASSAY	"DONE"	

* 87JK003 - J.K. (SUE) DAY STATUS AS OF MAY 27, 1987 *

REGISTERED ON: MAR 20, 1987, BY :BOB G

LOCATOR: SURBATO1/SURRETTE BATTERY
FINAL EFFLUENT

PROV: NS

NORMAL ANALYSIS: 1,5,46,51,47,48,49,54,20

PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN, DATE: 12/ 3/87 (MAR 12, 1987), TIME: 1515, FREQ: 1

SAMPLING ENDED, DATE: 12/ 3/87 (MAR 12, 1987), TIME: 1515

DEPTH: .00 METERS, TIDE:

NARRATIVE:

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001F/PH.....	12.2	
2: 051 /LEAD (TOTAL).....	8.0	MG/L
3: 051D/LEAD DISSOLVED.....	10.0	MG/L
4: 500 /BIOASSAY	'DONE'	

* B7JK004 - J.K. (SUE) DAY STATUS AS OF APR 8, 1987 *

REGISTERED ON: MAR 20, 1987, BY :BOB G

LOCATOR: SURBAT01/SURRETTE BATTERY
FINAL EFFLUENT

PROV: NS

NORMAL ANALYSIS: 1,5,46,51,47,48,49,54,20

PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN, DATE: 12/ 3/87 (MAR 12, 1987), TIME: 1550, FREQ: 1

SAMPLING ENDED, DATE: 12/ 3/87 (MAR 12, 1987), TIME: 1550

DEPTH: .00 METERS, TIDE:

NARRATIVE: LEAK IN BERM.

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE	UNITS
1: 051 /LEAD (TOTAL).....	5.5	MG/L

* 87JK005 - J.K. (SUE) DAY STATUS AS OF MAY 27, 1987 *

REGISTERED ON: MAR 20, 1987, BY :BOB G

LOCATOR: SURBAT01/SURRETTE BATTERY
FINAL EFFLUENT

PROV: NS

NORMAL ANALYSIS: 1,5,46,51,47,48,49,54,20

PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN, DATE: 13/ 3/87 (MAR 13, 1987), TIME: 1130, FREQ: 1

SAMPLING ENDED, DATE: 13/ 3/87 (MAR 13, 1987), TIME: 1130

DEPTH: .00 METERS, TIDE:

NARRATIVE: NONE

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001F/PH.....	12.0	
2: 051 /LEAD (TOTAL).....	5.8	MG/L
3: 051D/LEAD DISSOLVED.....	8.5	MG/L
4: 500 /BIOASSAY	"DONE"	

* 87JK006 - J.K. (SUE) DAY STATUS AS OF APR 8, 1987 *

REGISTERED ON: MAR 20, 1987, BY :BOB G

LOCATOR: SURBAT01/SURRETTE BATTERY

FINAL EFFLUENT

PROV: NS

NORMAL ANALYSIS: 1,5,46,51,47,48,49,54,20

PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN, DATE: 13/ 3/87 (MAR 13, 1987), TIME: 1130, FREQ: 1

SAMPLING ENDED, DATE: 13/ 3/87 (MAR 13, 1987), TIME: 1130

DEPTH: .00 METERS, TIDE:

NARRATIVE: LEAK IN BERN.

----- SAMPLE ANALYSIS -----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001F/PH.....	10.1	
2: 051 /LEAD (TOTAL).....	5.0	HG/L

* B7JK007 - J.K. (SUE) DAY STATUS AS OF MAY 29, 1987 *

REGISTERED ON: MAR 20, 1987, BY :BOB G

LOCATOR: SURBAT01/SURRETTE BATTERY
FINAL EFFLUENT

PROV: NS

NORMAL ANALYSIS: 1,5,46,51,47,48,49,54,20

PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN, DATE: 16/ 3/87 (MAR 16, 1987), TIME: 1700, FREQ: 1

SAMPLING ENDED, DATE: 16/ 3/87 (MAR 16, 1987), TIME: 1700

DEPTH: .00 METERS, TIDE:

NARRATIVE: NONE

---- SAMPLE ANALYSIS ----

.....	PARAMETER	VALUE	UNITS
1:	001F/PH.....	10.6	
2:	051 /LEAD (TOTAL).....	0.76	MG/L
3:	051D/LEAD DISSOLVED.....	LO.02	MG/L
4:	500 /BIOASSAY	"DONE"	

* 87JK008 - J.K. (SUE) DAY STATUS AS OF MAY 29, 1987 *

REGISTERED ON: MAR 20, 1987, BY :BOB G

LOCATOR: SURBAT01/SURRETTE BATTERY
FINAL EFFLUENT

PROV: NS

NORMAL ANALYSIS: 1,5,46,51,47,48,49,54,20

PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN, DATE: 18/ 3/87 (MAR 18, 1987), TIME: 1330, FREQ: 1

SAMPLING ENDED, DATE: 18/ 3/87 (MAR 18, 1987), TIME: 1330

DEPTH: .00 METERS, TIDE:

NARRATIVE: NEW STAND PIPE DISCHARGE LINE.

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001F/PH.....	5.6	
2: 051 /LEAD (TOTAL).....	8.08	MG/L
3: 051D/LEAD DISSOLVED.....	2.25	MG/L
4: 500 /BIOASSAY	"DONE"	

* 87JK009 - J.K. (SUE) DAY STATUS AS OF MAY 29, 1987 *

REGISTERED ON: MAR 20, 1987, BY :BOB G

LOCATOR: SURBATO1/SURRETTE BATTERY
FINAL EFFLUENT

PROV: NS

NORMAL ANALYSIS: 1,5,46,51,47,48,49,54,20

PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN, DATE: 19/ 3/87 (MAR 19, 1987), TIME: 1635, FREQ: 1
SAMPLING ENDED, DATE: 19/ 3/87 (MAR 19, 1987), TIME: 1635

DEPTH: .00 METERS, TIDE:

NARRATIVE: NEW STAND PIPE DISCHARGE LINE

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001F/PH.....	6.7	
2: 051 /LEAD (TOTAL).....	4.60	MG/L
3: 051D/LEAD DISSOLVED.....	1.09	MG/L
4: 500 /BIOASSAY	"DONE"	

* 87JK012 - J.K. (SUE) DAY STATUS AS OF MAY 29, 1987 *

REGISTERED ON: MAR 31, 1987, BY :BOB G

LOCATOR: SURBAT01/SURRETTE BATTERY
FINAL EFFLUENT

PROV: NS

NORMAL ANALYSIS: 1,5,46,51,47,48,49,54,20

PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN, DATE: 31/ 3/87 (MAR 31, 1987), TIME: 1155, FREQ: 1
SAMPLING ENDED, DATE: 31/ 3/87 (MAR 31, 1987), TIME: 1155

DEPTH: .00 METERS, TIDE:
NARRATIVE:

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 051 /LEAD (TOTAL).....	15.1	MG/L
2: 051D/LEAD DISSOLVED.....	10.9	MG/L
3: 500 /BIDASSAY	"DONE"	

* 87PH002 - PHIL HENNEBURY STATUS AS OF APR 10, 1987 *

REGISTERED ON: MAR 5, 1987, BY :PHIL H

LOCATOR: SURBAT01/SURRETTE BATTERY
FINAL EFFLUENT

PROV: NS

NORMAL ANALYSIS: 1,5,46,51,47,48,49,54,20

PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN, DATE: 5/ 3/87 (MAR 5, 1987), TIME: 1100, FREQ: 1

SAMPLING ENDED, DATE: 5/ 3/87 (MAR 5, 1987), TIME: 1100

DEPTH: .00 METERS, TIDE:

NARRATIVE: POND COVERED WITH ICE)

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	6.52	
2: 001F/PH.....	4.0	
3: 005 /HARDNESS.....	980.	MG/L
4: 020 /SUSPENDED SOLIDS (SS).....	120.	MG/L
5: 046 /CADMIUM (TOTAL).....	.01	MG/L
6: 046D/CADMIUM DISSOLVED.....	.01	MG/L
7: 047 /CHROMIUM (TOTAL).....	.04	MG/L
8: 047D/CHROMIUM(DISSOLVED).....	.01	MG/L
9: 048 /COPPER (TOTAL).....	.27	MG/L
10: 048D/COPPER DISSOLVED.....	.26	MG/L
11: 049 /IRON (TOTAL).....	35.8	MG/L
12: 049D/IRON DISSOLVED.....	11.2	MG/L
13: 051 /LEAD (TOTAL).....	9.69	MG/L
14: 051D/LEAD DISSOLVED.....	3.9	MG/L
15: 054 /ZINC (TOTAL).....	.93	MG/L
16: 054D/ZINC DISSOLVED.....	.93	MG/L

TO
A

M. Gulcher, Chief
Water Pollution Control Division
Air & Water Branch
Conservation and Protection

FROM
DE

J. David A. Vaughan
Laboratory & Shellfish Division
Air & Water Branch
Conservation and Protection

SECURITY - CLASSIFICATION - DE SÉCURITÉ
OUR FILE / NOTRE RÉFÉRENCE 4705-37/S340
YOUR FILE / VOTRE RÉFÉRENCE
DATE 22 May 1987

SUBJECT
OBJET

BIOASSAY RESULTS - LEGAL SAMPLES
FROM SURRETTE BATTERY

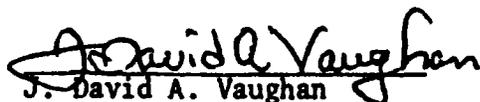
During the period March 11, 1987-March 31, 1987 our bioassay laboratory received seven legal samples of effluent collected from the Surrettes Battery Co. Ltd. plant in Springhill, Nova Scotia. Continuity of possession was maintained and both the walk-in cooler (where the samples were temporarily stored) and the bioassay lab were kept locked unless I was present.

A duplicated 96-hour static bioassay was conducted on each of the first four samples received, following as closely as practical the "Standard Procedure for Testing the Acute Lethality of Liquid Effluents" (Report EPS-1-WP-80-1). A single 96-hour static bioassay was conducted on the remaining three samples, using the same test procedure. Rainbow trout fingerling (Salmo gairdneri Richardson) were used as the test organism. In addition, a 48-hour static bioassay was conducted on each sample using Daphnia magna, a small freshwater crustacean, as the test organism. Results of the bioassays are presented in Table 1, along with some selected chemical analysis results.

Five of the seven samples were acutely lethal to rainbow trout fingerling, yielding 4-day LC50 values ranging from 1.0 to 42 percent. The same five samples were also acutely lethal to Daphnia magna, with 2-day LC50 values ranging from 1.8 to 18 percent.

Chemical analysis revealed that each of these five samples had a lethal pH level. In addition, four of the five samples contained a lethal level of dissolved lead. Thus pH and lead may be considered major contributors to the observed mortality.

A copy of each Bioassay Report is attached which provides additional test details. If further information or clarification is required, please call me.


J. David A. Vaughan

JDAV/ldl

Attachments (19)

cc: A. MacKinnon

P. Hennebury

R. Gaudet

H. Samant

Table 1

Bioassay and Selected Chemical Analysis Results* -
Surrette Battery Co. Ltd., Springhill, N. S. -
Final Effluent from Settling Pond

<u>Date Collected</u>	<u>4-day LC50** (95%CL) (Rainbow Trout)</u>	<u>2-day LC50 (95%CL) (Daphnia magna)</u>	<u>pH</u>	<u>Pb (mg/L, dissolved)</u>
11 Mar. '87 1540-1605	18% (10-32%) 18% (10-32%)	18% (10-32%)	12.0	12.6
12 Mar. '87 1440-1503	1.0% (NC***-2.7%) 1.4% (NC-2.9%)	2.5% (1-10%)	12.2	10.0
13 Mar. '87 1110-1150	6.4% (3.2-10%) 5.6% (3.2-10%)	18% (10-32%)	12.0	8.5
16 Mar. '87 1628-1721****	42% (10-100%) 20% (10-32%)	NC	10.6	10.02
18 Mar. '87 1335-1340	non-acutely lethal (20% mort. at 100% conc.)	non-acutely lethal (20% mort. at 100% conc.)	5.6	2.3
19 Mar. '87 1635	non-acutely lethal (10% mort. at 100% conc.)	non-acutely lethal	6.7	1.1
31 Mar. '87 1155	2.5% (1-10%) (20% control mort.) 3.7% (1-10%) (8 Apr. '87 follow- up test)	1.8% (1.0-3.2%)	3.6	10.9

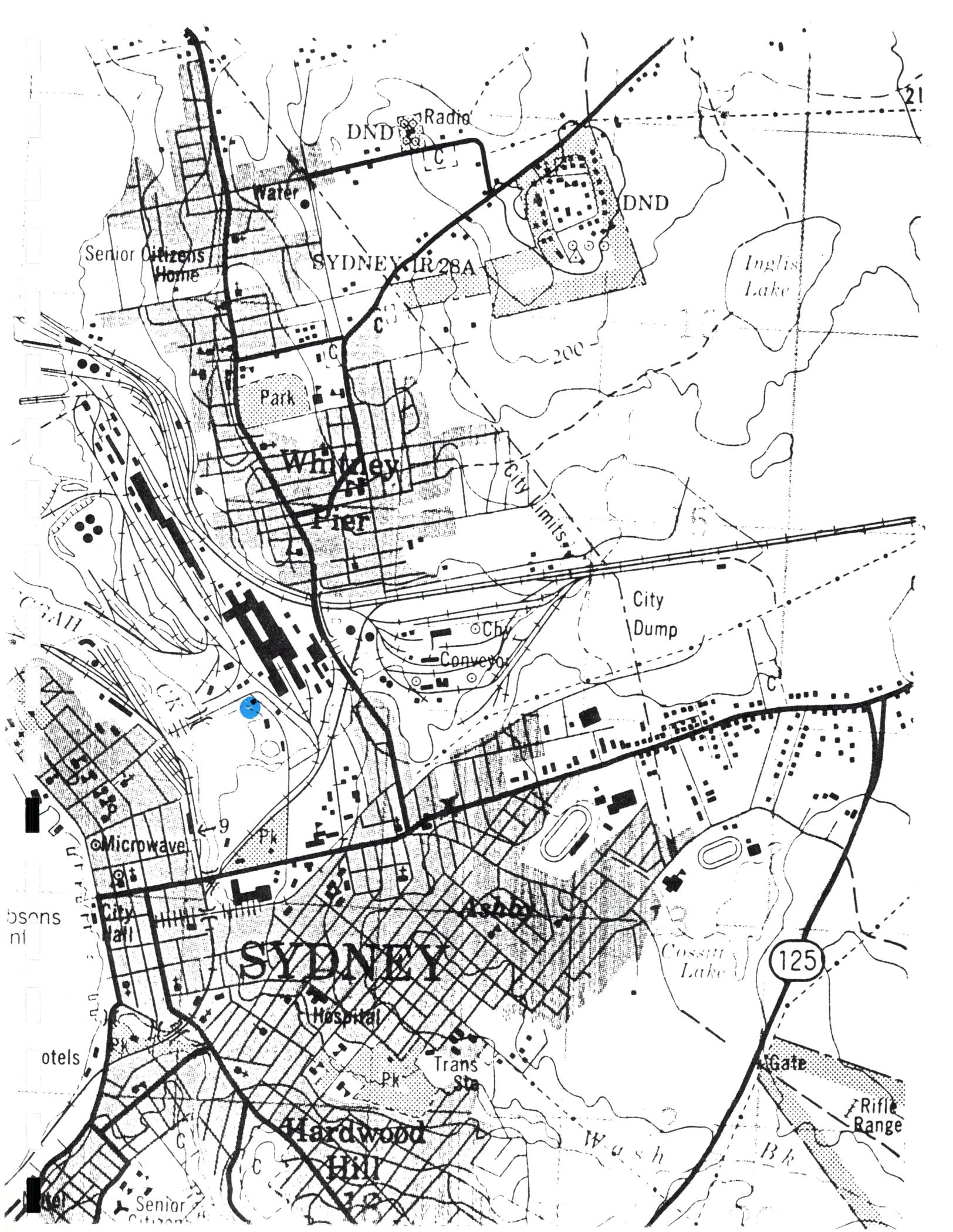
* Samples for chemical analysis were collected at approximately the same time as the bioassay samples

** The calculated concentration lethal to 50% of exposed test organisms in a given time period, in this case 4 days.

*** Not calculable

**** From leak in old standpipe

SYDNEY STEEL CORPORATION



* 87PH033 - PHIL HENNEBURY STATUS AS OF DEC 1, 1987 *

REGISTERED ON: JUN 18, 1987, BY :PHIL H

LOCATOR: SYDSTE42/SYDNEY STEEL CORPORATION, SYDNEY
EFFLUENT, NEW WWTP-ROLLING MILLS

PROV: NS

PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN: DATE: 17/ 6/87 (JUN 17, 1987); TIME: 1000, FREQ: 1
SAMPLING ENDED: DATE: 17/ 6/87 (JUN 17, 1987); TIME: 1000

DEPTH: .00 METERS; TIDE:
NARRATIVE: EFFLUENT

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001 /PH.....	7.4	
2: 001F/PH.....	7.2	
3: 012 /PHENOLS.....	LO.002	MG/L
4: 013 /OIL & GREASE (PET. ETHER).....	37.	MG/L
5: 018 /SOLIDS, TOTAL (TS).....	90.	MG/L
6: 020 /SUSPENDED SOLIDS (SS).....	5.	MG/L

* 87PH034 - PHIL HENNEBURY STATUS AS OF DEC 1, 1987 *

REGISTERED ON: JUN 19, 1987, BY :PHIL H

LOCATOR: SYDSTE43/SYDNEY STEEL CORPORATION;SYDNEY

INFLUENT;NEW WWTP-ROLLING MILLS

PROV: NS

PROJECT CODE: 240/ENV. CONTROL SITE FISHERIES ACT

SAMPLING BEGAN: DATE: 17/ 6/87 (JUN 17, 1987); TIME: 1000- FREE

SAMPLING ENDED: DATE: 17/ 6/87 (JUN 17, 1987); TIME: 1000

DEPTH: .00 METERS; TIDE:

NARRATIVE: NONE

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE	UNITS
1: 001 /PH.....	7.2	
2: 001F/PH.....	6.8	
3: 012 /PHENOLS.....	LO.002	MG/L
4: 013 /OIL & GREASE (PET. ETHER).....	48.	MG/L
5: 018 /SOLIDS, TOTAL (TS).....	140.	MG/L
6: 020 /SUSPENDED SOLIDS (SS).....	10.	MG/L

W

WINDSOR SALT, PUGWASH

REGISTERED ON: JUL 8, 1987, BY :NS

LOCATOR: WINPUG01/WINDSOR SALT PUGWASH
 FINAL EFFLUENT

PROV: NS

NORMAL ANALYSIS: 1,20,65,131,49,159,54,46,28,171

PROJECT CODE: 265/LAB SUPPORT - PREV & CONTR WATER POLL

SAMPLING BEGAN, DATE: 7/ 7/87 (JUL 7, 1987), TIME: 1020, FREQ: 1
 SAMPLING ENDED, DATE: 7/ 7/87 (JUL 7, 1987), TIME: 1020

DEPTH: .00 METERS, TIDE:
 NARRATIVE: OUTFALL TO SETTLING POND

---- SAMPLE ANALYSIS ----

.....	PARAMETER	VALUE	UNITS
1:	001 /PH.....	7.8	
2:	006 /CONDUCTIVITY.....	48.4	MMHO/CM
3:	018 /SOLIDS, TOTAL (TS).....	61300.	MG/L
4:	020 /SUSPENDED SOLIDS (SS).....	1800.	MG/L
5:	036 /CALCIUM (TOTAL).....	811.	MG/L
6:	045 /CADMIUM (TOTAL).....	L.01	MG/L
7:	047 /CHROMIUM (TOTAL).....	L.01	MG/L
8:	048 /COPPER (TOTAL).....	.01	MG/L
9:	049 /IRON (TOTAL).....	.79	MG/L
10:	051 /LEAD (TOTAL).....	L.02	MG/L
11:	054 /ZINC (TOTAL).....	L.01	MG/L
12:	151 /CHLORIDE.....	10000.	PPM
13:	500 /BIOASSAY	"NONE"	

TO
A

A. MacKinnon, Head
Oil and Chemical Waste Section
Air & Water Branch
Conservation and Protection

FROM
DE

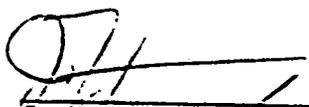
J. Young, Project Biologist
Aquatic Toxicology Section
Laboratory Division
Air & Water Branch

SECURITY - CLASSIFICATION - DE SÉCURITÉ
OUR FILE / NOTRE RÉFÉRENCE 4875-82/2
YOUR FILE / VOTRE RÉFÉRENCE
DATE 27 August 1987

SUBJECT / OBJET BIOASSAY RESULTS - WINDSOR SALT, PUGWASH, N. S.

On 7 July 1987, P. McLeod of NSDOE collected a sample of the outfall (Lab Registration No. 87NS003) from the Windsor Salt plant in Pugwash, Cumberland Co., N. S. The salinity of the sample was approximately 25 ppt. On 9 July 1987 two 96-hour static bioassays (one with rainbow trout and one with stickleback) were started on the sample. The effluent was not acutely lethal to the fish in either of the tests.

There was an unacceptable level of control mortality observed in the stickleback test. This test was re-started on 14 July 1987 with the only observed change in result being the resolution of the control mortality problem. A copy of the Bioassay Report Forms are attached which provide additional test details.



J. Young

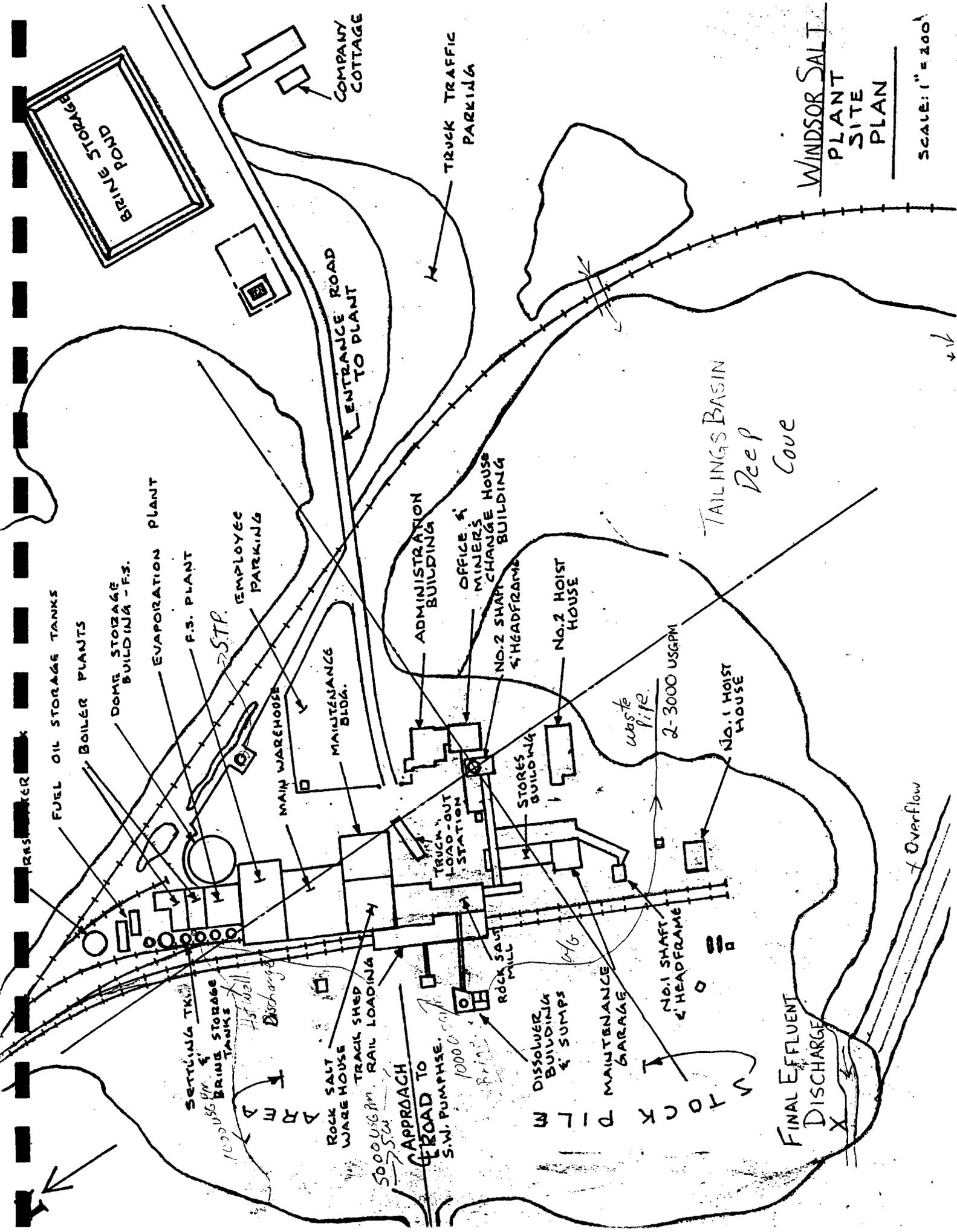
JY/ldl

Attachment (2)

cc: H. Samant
K. Doe
D. Vaughan
J. Turner, NSDOE

MF





WINDSOR SALT PLANT SITE PLAN

SCALE: 1" = 200'

FUEL OIL STORAGE TANKS

BOILER PLANTS

DOMESTIC STORAGE BUILDING - F.S.

EVAPORATION PLANT

F.S. PLANT

EMPLOYEE PARKING

STP

MAIN WAREHOUSE

MAINTENANCE BLDG.

ADMINISTRATION BUILDING

OFFICE & MINERS' CHANGE HOUSE

NO. 2 SHAFT & HEADFRAME

NO. 2 HOIST HOUSE

STORES BUILDING

waste pipe

2-3000 USGPM

NO. 1 HOIST HOUSE

TAILINGS BASIN

Deep

Cove

Overflow

FINAL EFFLUENT DISCHARGE

SETTING TANKS

ROCK SALT WARE HOUSE

TRUCK SHED

RAIL LOADING

5000 USGPM

APPROACH ROAD TO S.W. PUMPHOUSE

1000 USGPM

ROCK SALT MILL

TRUCK LOAD-OUT STATION

MAINTENANCE GARAGE

DISSOLVER BUILDING & SUMPS

NO. 1 SHAFT & HEADFRAME

TRUCK DITCH

BRINE STORAGE

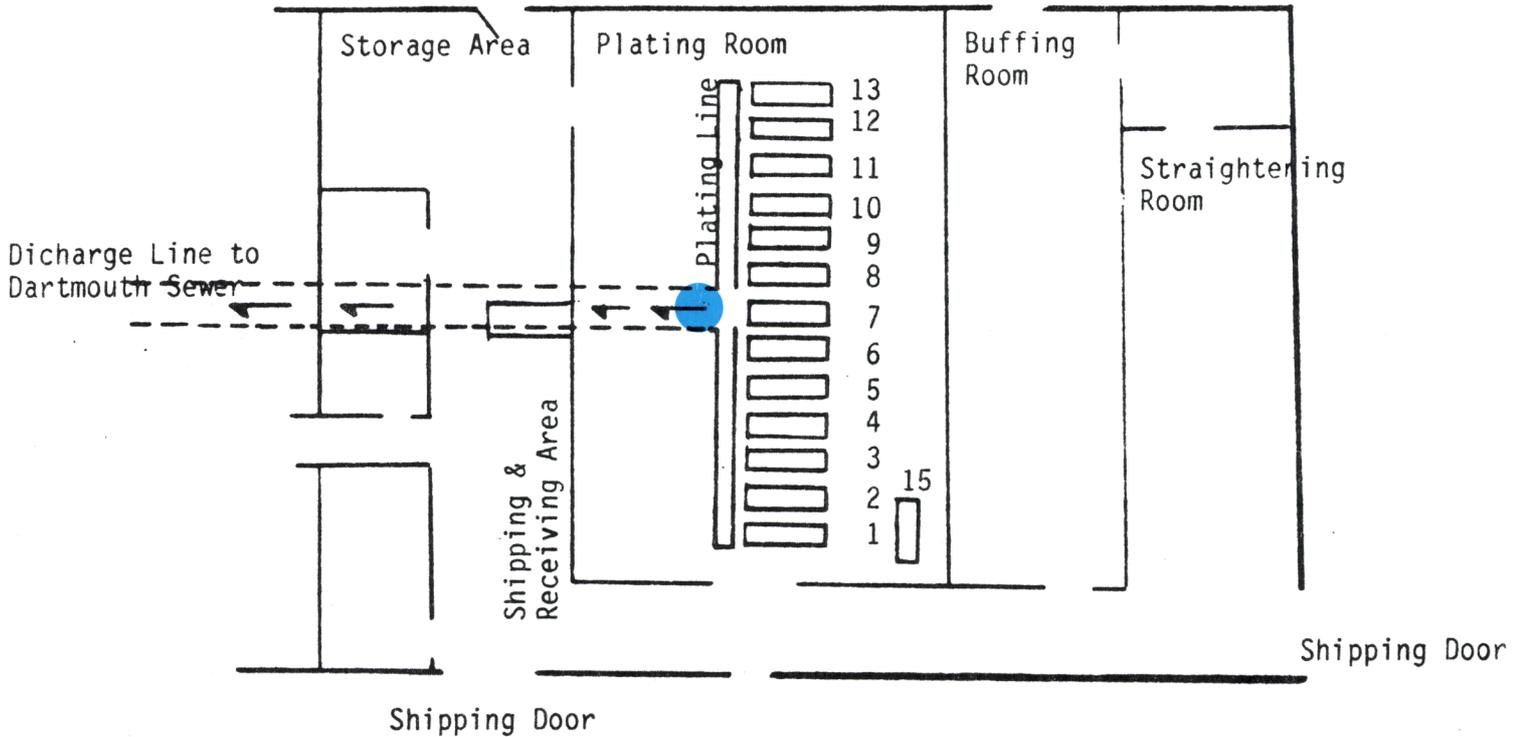
ENTRANCE ROAD TO PLANT

TRUCK TRAFFIC PARKING

COMPANY COTTAGE

ZENITH ELECTROPLATING

**An Approximate Layout of
Zenith Electroplating Company Limited
Dartmouth, N.S.**



<u>Tank No.</u>	<u>Process</u>	<u>Size</u>	<u>Capacity Litres</u>	<u>Contents</u>
1	Chrome Strip	8' x 3' x 4'	(2717)	Caustic soda
2	Electro Cleaner	8' x 3' x 4'	(2717)	Caustic soda
3	Activator	8' x 3' x 4'	(2717)	Caustic & cyanide
4	Water Rinse	8' x 3' x 4'	(2717)	Water rinse
5	Sulphuric Acid	8' x 3' x 4'	(2717)	H ₂ SO ₄ (25%)
6	Water Rinse	8' x 3' x 4'	(2717)	Water spray rinse
7	Semi Bright Nickel (CCS)	10' x 3' x 4'	(3396)	Nickel bath (NiCl ₂ , NiSO ₄ , H ₂ SO ₄)
8	Bright Nickel (660BN)	10' x 3' x 4'	(3396)	Nickel bath (NiCl ₂ , NiSO ₄ , H ₂ SO ₄)
9	Bright Nickel (660BN)	10' x 3' x 4'	(3396)	Nickel bath (NiCl ₂ , NiSO ₄ , H ₂ SO ₄)
10	Nickel Reclaim	10' x 10' x 4'	(3396)	Nickel reclaim tank
11	Water Rinse	8' x 3' x 4'	(2717)	Water rinse
12	Water Rinse	8' x 3' x 4'	(2717)	Water rinse
13	Chrome Reclaim	10' x 3' x 4'	(3396)	Chrome reclaim tank
14	Chrome Solution K-40	10' x 3' x 4'	(3396)	Chrome bath (chromic acid, H ₂ SO ₄)
15	Paint Stripper and Degreaser	5' x 4' x 4'	(2264)	Copper cyanide, sodium cyanide

Not to Scale

* 88PH006 - PHIL HENNEBURY STATUS AS OF MAR 14, 1988 *

REGISTERED ON: FEB 19, 1988, BY :BOB G

LOCATOR: ZENITH01/ZENITH ELECTROPLATING
FINAL EFFLUENT

FROM: NS

NORMAL ANALYSIS: 1,2,20,29,47,48,49,51,109,46

PROJECT CODE: 233/COAL & PEAT MINING METALLURGICAL

SAMPLING BEGAN: DATE: 19/ 2/88 (FEB 19, 1988), TIME: 1015, FREQ: 16

SAMPLING ENDED: DATE: 19/ 2/88 (FEB 19, 1988), TIME: 1215

DEPTH: .00 METERS, TIDE:

NARRATIVE: TIME TO FILL 20 LITRE PAIL WITH HOSES.

(36.5 SEC.)(42.0 SEC.)(36.2 SEC.)

---- SAMPLE ANALYSIS ----

.....PARAMETER .....	..... VALUE .....	..... UNITS
1: 001 /PH.....	3.0	
2: 001F/PH.....	2.8	
3: 020 /SUSPENDED SOLIDS (SS).....	75.	MG/L
4: 029 /CYANIDE (CN).....	1.87	MG/L
5: 029H/CYANIDE(OXIDIZABLE)	0.26	MG/L
6: 046 /CADMIUM (TOTAL).....	10.01	MG/L
7: 047 /CHROMIUM (TOTAL).....	1.95	MG/L
8: 048 /COPPER (TOTAL).....	1.07	MG/L
9: 049 /IRON (TOTAL).....	9.79	MG/L
10: 051 /LEAD (TOTAL).....	0.92	MG/L
11: 054 /ZINC (TOTAL).....	1.29	MG/L
12: 159 /NICKEL (TOTAL).....	30.7	MG/L
13: 162 /ALUMINUM (TOTAL).....	1.15	MG/L
14: 270 /FLOW.....	94.6	L/MIN