

— 0.5 foot Contours

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Bathymetric Contour Map
Squamscott River - Exeter, NH

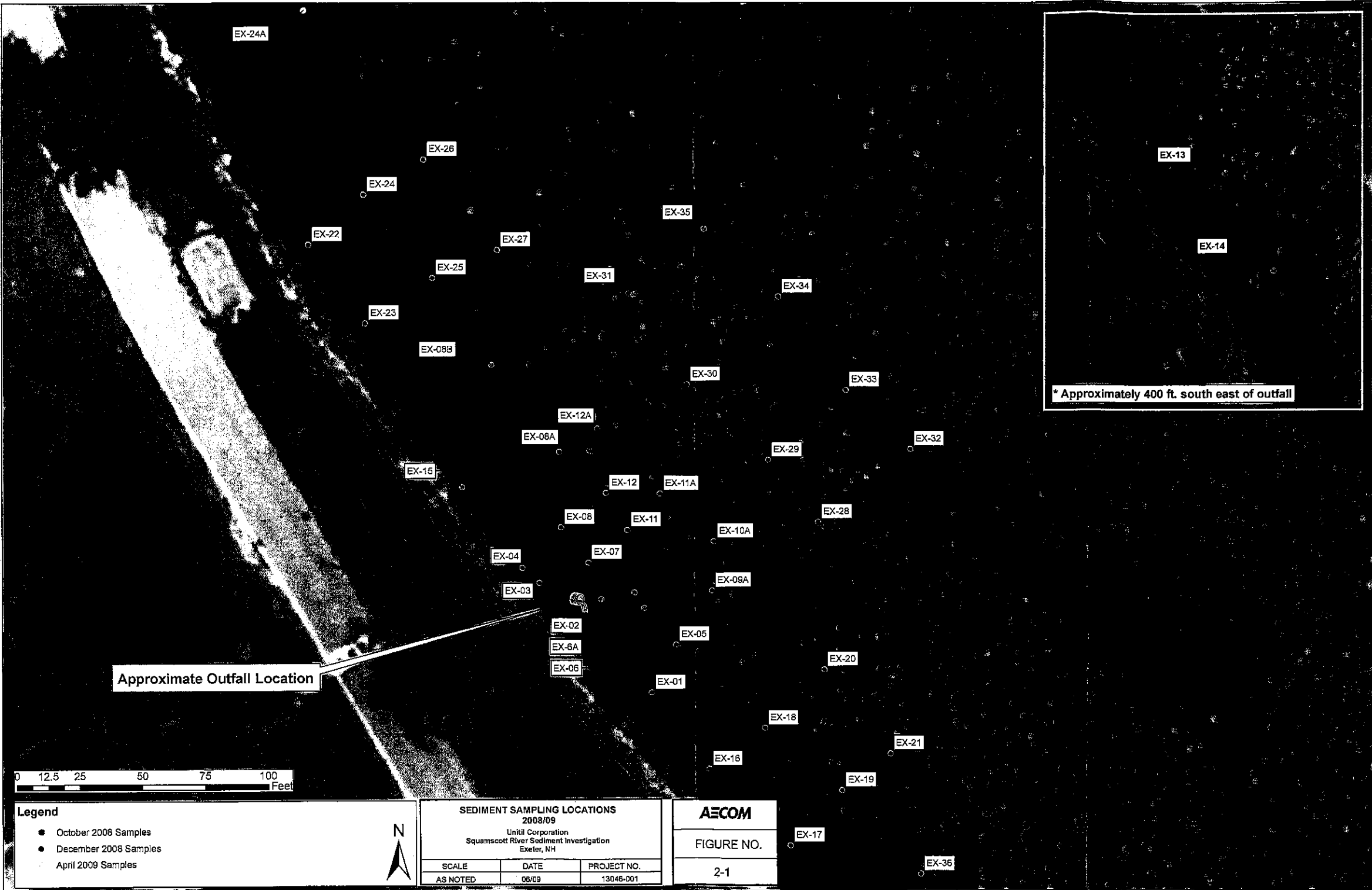
0 25 50 100 Feet

SCALE	DATE	PROJECT NO.
1:24000	6/09	00805-902



Figure Number

3-1



Approximate Outfall Location



Legend

- October 2008 Samples
- December 2008 Samples
- April 2009 Samples



SEDIMENT SAMPLING LOCATIONS 2008/09		
Unifit Corporation Squamscott River Sediment Investigation Exeter, NH		
SCALE	DATE	PROJECT NO.
AS NOTED	06/09	13046-001

AECOM
FIGURE NO.
2-1

* Approximately 400 ft. south east of outfall

Table 1
Subsurface Sediment Results
Squamscott River Outfall, Exeter, NH

Contaminant	SD-01		SD-02		SD-03		SD-04		SD-05		SD-06		SD-07		SD-08	
	1-2 ft	2-3 ft	1-2 ft	4-5 ft	1-1.5 ft	4-4 ft	1-2.3 ft	2-3-2.8 ft	1-2-3 ft	4-5 ft	1-3 ft	4-5-2 ft	1-2-2.8 ft	3-5-6-4 ft	1-2-5 ft	5-6-3 ft
PAH (µm/Kg)	28,000	2,000	52,000	19 J	66,000	28 J	59,000	870	110,000	740	560,000	35,000	250,000	8,600	22,000	550
Acenaphthylene	3,000	220	4,200	22 J	6,100	22 J	6,300	88 J	8,900	16 J	48,000	3,100	28,000	810	2,300	38
Anthracene	13,000	950	30,000	12 J	36,000	15 J	30,000	690	82,000	58	48,000	16,000	140,000	3,600	13,000	190
Benzo(a)anthracene	8,500	650	17,000	18 J	22,000	20 J	19,000	460	28,000	38	160,000	8,400	89,000	2,100	8,100	130
Benzo(b)fluoranthene	4,800	380	12,000	8 J	17,000	10 J	14,000	330	20,000	28	100,000	6,600	65,000	1,400	6,000	110
Benzo(k)fluoranthene	1,300	51	7,200	22 J	8,500	5 J	3,100	65 J	6,300	12 J	41,000	1,300	17,000	630	1,900	22
Benzo(a)pyrene	6,200	170	16,800	22 J	20,500	18 J	17,500	420	8,200	34	41,000	2,800	17,000	630	2,300	48
Benzo(e)pyrene	5,200	440	15,000	11 J	21,000	13 J	2,000	410	21,000	24	140,000	6,000	74,000	2,400	7,300	150
Chrysene	230	40	860	22 J	1,800	22 J	2,000	38 J	2,200	24	12,000	300	3,000	1,500	300	120
Fluorene	13,000	1,000	32,000	16 J	40,000	18 J	28,000	740	52,000	60	230,000	14,000	140,000	3,600	15,000	240
Fluoranthene	1,800	140	4,000	22 J	5,800	22 J	6,400	600	7,800	200	280,000	20,000	130,000	4,800	2,200	38
Indeno(1,2,3-cd)pyrene	48,000	3,000	87,000	33 J	100,000	81 B	110,000	140	200,000	2200 S	1,100,000	62,000	450,000	18,000	40,000	1,200
2-Methylanthracene	87,000	3,500	79,000	38 J	110,000	78 B	120,000	1300	240,000	7000 S	1,400,000	88,000	490,000	23,000	41,000	2,500
Naphthalene	38,000	3,000	79,000	38 J	99,000	63 B	89,000	1900	140,000	220 S	720,000	44,000	370,000	11,000	38,000	650
Phenanthrene	18,000	1,400	41,000	18 J	52,000	24	49,000	1100	71,000	76	380,000	21,000	200,000	4,800	20,000	320
Pyrene	18,000	1,400	41,000	18 J	52,000	24	49,000	1100	71,000	76	380,000	21,000	200,000	4,800	20,000	320
Total PAHs	269,330	18,671	514,790	338	652,800	418	606,300	10,701	1,048,800	10,676	5,696,000	318,200	2,558,000	83,550	237,830	6,533
Total Organic Carbon (%)	1.8	1.3	0.8	1.3	0.8	0.8	5.1	2.6	10.2	1.2	9.9	0.7	3.5	1.3	4.8	1.0
Metals (µm/Kg)																
Arsenic	E	4	13.9	3	10.7	3	11.2	0.4	14.7	2.8	16	3	7.9	3	9.4	10
Chromium	0.25	0.22	0.12	0.24	0.57	0.28	0.55	0.33	1.2	0.28	1.1	0.24	0.43	0.28	0.44	0.48
Cadmium	1.33	1.5	1.14	1.6	1.04	1.2	1.51	27.5	88.4	16.2	53.8	1.4	33.6	17	40.2	31
Lead	14.3	3.5	13.7	2.8	87.3	2.2	13.1	12.2	189	2.8	22.7	2.6	10.9	3.4	8.4	84.9
Grain Size Distribution (%)																
Clay	44.6	23.3	61.2	23.6	27.6	18.2	47.9		85	23.6	67.2	1.8	23.4	24	41.4	32
Fines	64.4	68.6	18	76.2	40.8	78.7	46.4		15	72.8	32.4	9.5	76.2	71.7	63	66.7
Sand	1.1	2	0.82	1	22.8	2	2.8		0	3.8	0.4	3.2	0.4	4.4	5.7	1.3

Table 1 (Cont.)
Subsurface Sediment Results
Squamscott River Outfall, Exeter, NH

Contaminant	SD-08B		SD-09A		SD-10A		SD-11		SD-11A		SD-12		SD-12A	
	1-2.5 ft	5-7 ft	1-2.5 ft	5-6.8 ft	1-2.5 ft	5-6.6 ft	1-2.5 ft	3-5.5 ft	1-2.5 ft	3-5.0 ft	1-2 ft	4-6.6 ft	1-3.0 ft	4-6.6 ft
PAH (Total)	13,000	100	1,800	1,300	230	340	180,000	56,000	59,000	250	14,000	480	600	290
Acenaphthene	1,800	21	140	21 J	114 J	22	11,000	4,100	6,000	230	1,900	8 J	100 J	290
Acenaphthylene	6,700 B	21	640	41	110 B	22	74,000	26,000	22,000 B	230	8,500	8 J	580	25
Benzo(a)anthracene	3,800	8	340	5 J	180	22	12,000	12,000	22,000	230	6,400	8 J	810	25
Benzo(b)fluoranthene	1,100	21	170	24	100	22	7,000	2,600	16,200	230	1,200	21	240	25
Benzo(k)fluoranthene	2,100	21	290	24	88	22	16,000	4,800	6,800	230	2,800	21	370	25
Benzo(a)pyrene	6,700 B	63 B	540	65	200 B	17 BJ	37,000 B	11,000 B	22,000 B	230	6,300 B	5 BJ	580 B	99
Chrysene	4,300	5 J	360	7 J	200 B	22	33,000	9,600	19,000	230	4,200	6 J	600	5
Dibenz(a,h)anthracene	540	21	64	24	23 J	22	4,200	580	2,100	230	750	21	84 J	25
Fluoranthene	10,000	21	660	6	470	22	71,000	22,000	38,000	230	11,000	17 J	850	25
Fluorene	7,000	14 J	610	370	110	52	76,000	24,000	30,000	35	9,900	180	450	29
Indeno(1,2,3-cd)pyrene	1,800	21	200	24	81	22	14,000	4,100	6,200	230	2,400	21	290	25
2-Methylanthracene	21,000	430 B	4,200 B	3,800	480	1,300	280,000	99,000	100,000	830	23,000	980	600	1400
Naphthalene	22,000 B	1200 B	9,200 B	8,000	860 B	3,700 B	330,000	120,000	83,000 B	3000 BJ	32,000	1800	830	6800
Phenanthrene	28,000 B	10 BJ	2,000	240	580 B	15 BJ	200,000	68,000	84,000 B	8 BJ	27,000	250	1,600	11
Pyrene	14,000	21	390	10 J	390	22	110,000	32,000	50,000	230	16,000	22	1200	25
Total PCBs	147,480	2,019	22,884	13,978	4,317	5,689	1,482,000	501,780	692,400	6,884	178,450	3,684	9,924	8,997
Total Organic Carbon (%)	0.6	0.7	1.4	0.8	2.5	0.7	8.8	1.1	8.9	0.9	3.0	0.7	2.1	1.2
Asenic (mg/dwt)	16	3	4.5	3	5.2	3	10.6	2.8	13.1	2.6	8	2.4	6.4	3.3
Cadmium	1.2	0.25	0.26	0.22	0.34	0.28	0.74	0.27	0.33	0.26	0.35	0.24	0.27	0.27
Chromium	203	12	163	12	25.1	10	54.2	14.5	59.3	11.9	86.5	12.2	22.9	14.6
Lead	175	2.1	3.8	2.1	31.3	1.8	14.2	2.4	20.7	1.8	61.6	1.9	41.1	2.8
Grain Distribution (%)														
Fines	87.4	16.9	36.8	15.9	27.6	83.2	51.1	17.5	72.6	6.4	52.9	9.2	45.7	20.6
Sand	12.6	82.4	59.1	83.2	72.2	16.9	47.1	81.7	27.2	91.4	47	80.1	53.6	73.8
Gravel	0	0.7	5.2	0.9	0	0.9	1.7	0.8	0	2.2	0.1	0.7	0.7	5.7

Table 1 (Cont.)
Subsurface Sediment Results
Squamscott River Outfall, Exeter, NH

Contaminant	SD-15		SD-15 RE		SD-16		SD-16 RE		SD-17		SD-24		SD-24 RE		SD-24A		SD-24A RE	
	2-4 ft	4.5-2 ft	2-4 ft	2-2.58 ft	2-2.58 ft	2-2.58 ft	2-2.58 ft	2-2.58 ft	2-4 ft	4.6 ft	4.6 ft	0.6-7.6 ft	2-4 ft	2-4 ft	4.6 ft	4.6 ft	4.6 ft	4.6 ft
PAH (µg/Kg)																		
Acenaphthylene	4,800	330	6,300	640	640	1,600	460	750	330	330	330	490	13,000	330	330	330	430	
Acenaphthylene	1,100	330	1,400	330	330	330	330	330	330	330	330	330	2,100	330	330	330	330	
Anthracene	6,400	330	8,400	880	880	1,800	340	1,000	330	330	330	330	13,000	330	330	330	420	
Benzo(a)anthracene	4,300	330	5,400	640	640	1,200	330	330	330	330	330	330	10,000	330	330	330	330	
Benzo(a)fluoranthene	3,750	330	3,000	460	460	220	330	330	330	330	330	330	5,000	330	330	330	330	
Benzo(b)fluoranthene	870	330	1,600	330	330	330	330	330	330	330	330	330	3,100	330	330	330	330	
Benzo(k)fluoranthene	2,600	330	3,400	420	420	700	330	330	330	330	330	330	7,600	330	330	330	330	
Chrysene	3,500	330	4,600	560	560	1,000	330	330	330	330	330	330	2,000	330	330	330	330	
Dibenz(a,h)anthracene	660	330	860	330	330	330	330	330	330	330	330	330	17,000	330	330	330	710	
Fluoranthene	7,700	330	9,900	1,300	1,300	2,300	500	660	330	330	330	580	5,600	330	330	330	330	
Fluorene	4,300	330	5,600	620	620	1,200	330	330	330	330	330	330	3,000	330	330	330	330	
Indeno(1,2,3-cd)pyrene	1,000	330	1,400	330	330	330	330	330	330	330	330	330	13,000	330	330	330	330	
2-Methylanthracene	5,200	330	6,800	870	870	1,500	660	1,400	330	330	330	330	20,000	330	330	330	330	
Naphthalene	5,000	330	6,600	870	870	1,200	390	1,400	330	330	330	330	33,000	330	330	330	330	
Phenanthrene	16,000	330	21,000	2,600	2,600	4,900	1,100	1,300	330	330	330	720	21,000	330	330	330	1,100	
Pyrene	10,000	330	14,000	1,700	1,700	3,000	810	750	330	330	330	460	33,000	330	330	330	610	
Total PAHs	77,690	5,610	100,690	13,970	13,970	23,710	7,350	10,390	430	430	5,710	6,840	184,000	6,950	6,200	6,200	8,570	
Total Organic Carbon (%)	3.4	1.8		1.9			1.8	2.4	1.4	1.4	1.3	3.5		2.0				
Asbestos																		
Asbestos	12	7		7			7	0	3	3	3		14	21	19			
Cadmium	1	31		1			1	1	3	3	3		14	10	17			
Chromium	130	6		36			26	30	16	16	16		298	42	6			
Lead	81	6		27			14	14	3	3	3							
Grain Distribution (%)																		
Fines	60	53		51			52	61	21	22	22		79	26				
Sand	37	46		43			44	38	78	78	78		21	73				
Clay	3	2		7			5	2	3	0	0		0	1				

Table 1 (Cont.)
Subsurface Sediment Results
Squamscott River Outfall, Exeter, NH

PAH (ug/Kg)	Upstream Reference Locations									
	SD-25	SD-25 RE	SD-30	SD-34	SD-13	SD-14	SD-14	SD-14	SD-14	SD-14
	2-4 ft	4-5.3 ft	2-4 ft	2-3.5 ft	1-2.5 ft	4-5.6 ft	1-2.2 ft	2-2.4 ft	2-2.4 ft	2-2.4 ft
Coal-tar-benz										
Acenaphthene	6,400	330	10,000	330	330	23	8 J	22	21	
Acenaphthylene	5,300	5,000	5,000	330	330	23	8 J	22	21	
Anthracene	5,300	330	5,000	330	330	6 BU	8 E	7 J	21	
Benzo(a)anthracene	5,300	330	5,000	660	660	20 J	17 J	17 J	21	
Benzo(b)fluoranthene	5,300	330	5,000	820	820	13 J	33	13 J	21	6 J
Benzo(k)fluoranthene	5,300	330	5,000	330	330	8 J	10 J	7 J	21	
Benzo(a)pyrene	5,300	330	5,000	550	550	14 BU	18 J	13 J	21	30 B
Benzo(e)pyrene	5,300	330	5,000	660	660	14 BU	33	30	21	
Chrysene	5,300	330	5,000	810	810	12	54	30	21	
Dibenz(a,h)anthracene	5,300	330	5,000	330	330	22	22	22	21	
Fluorene	5,300	330	5,000	1,400	1,400	23	41	22	21	
Indeno(1,2,3-cd)pyrene	5,300	330	5,000	330	330	23	22	22	21	
1,2,3,4-tetrahydronaphthalene	12,000	330	5,000	330	330	17 J	7 J	7 J	21	
2-Methylanthracene	12,000	330	16,000	330	330	23	22	22	21	
Naphthalene	15,000	330	21,000	330	330	23	6 E	22	21	
Phenanthrene	13,000	330	15,000	760	760	18 BU	19 E	21 J	8 J	
Pyrene	5,500	330	5,800	1,200	330	25	42	23	21	
Total PAHs	115,500	5,610	177,900	9,350	5,610	295	359	300	323	0.5
Total Organic Carbon (%)	2.2	1.2	1.6	1.6	2.0	1.2	0.8	0.9	0.5	
Metals (mg/Kg)										
Asenic	8	3	3	3	3	3.3	7.6	5	3.4	
Cadmium	1	0	0	0	0	0.26	0.23	0.28	0.27	
Chromium	39	20	3	21	15	15.1	16	14.4	9.5	
Copper	13	3	3	35	4	3.4	7.4	8	1.4	
Lead										
Silt Size Distribution (%)										
Sand	72	22	22	23	26	43.4	26.2	19.6	6.1	
Silt	20	77	77	76	74	52.4	77	74.9	92.1	
Gravel	0	1	1	0	0	4.5	0.5	5.9	0.8	

Table 1 (Cont.)
Subsurface Sediment Results
Squamscott River Outfall, Exeter, NH

Volatile Organics (ug/Kg)	SD-8A		SD-15		SD-16		SD-17		SD-21		SD-24A		SD-25		SD-30		SD-34	
	2-4 ft	4-5 ft	2-4 ft	4-5.2 ft	2-2.5 ft	2-2.5 ft	2-4 ft	4-8 ft	0-0.15 ft	2-4 ft	4-9 ft	2-4 ft	4-5.3 ft	2-4 ft	4-5 ft	2-4 ft	2-3.5 ft	
Benzene	25,000	1,100	180	140	140	110	130	80	120	200	130	340	100	95	80	130		
Toluene	75,000	1,100	180	140	140	110	130	80	120	200	130	340	100	95	80	130		
Ethylbenzene	750,000	5,700	200	140	140	110	130	80	120	200	130	340	100	95	80	130		
p-Xylene	500,000	5,700	200	140	140	110	130	80	120	200	130	340	100	95	80	130		
m-Xylene	250,000	2,000	200	140	140	110	130	80	120	200	130	340	100	95	80	130		

Note: italic indicates that result is less than the associated analytical reporting limit

Table 2
Surface Sediment Results
Squamscott River Outfall, Exeter, NH

Constituent	Oct-08 SD-01-A 0-1 ft.	Oct-08 SD-02-A 0-1 ft.	Oct-08 SD-03-A 0-1 ft.	Oct-08 SD-04-A 0-1 ft.	Oct-08 SD-05-A 0-1 ft.	Oct-08 SD-06-2 0-1 ft.	Dec-08 SD-6-A 0-0.5 ft.	Oct-08 SD-07-A 0-1 ft.	Oct-08 SD-08-A 0-1 ft.	Oct-08 SD-08-B 0-1 ft.	Oct-08 SD-09-A 0-1 ft.
Acenaphthylene	77,000	16,000	48,000	23,000	14,000	290,000	1,900	14,000	8,200	6,700	21,000
Anthracene	6,400	3,600	5,000	2,200	2,100	35,000	790	2,400	1,100	1,400	2,600
Benz(a)anthracene	34,000 B	14,000	28,000	12,000	9,000 B	140,000	1,300	8,300	5,200	5,800 B	13,000
Benz(a)pyrene	17,000	10,000	17,000	7,300	5,900	80,000	2,100	7,200	3,300	4,900	9,400
Benz(b)fluoranthene	13,000	8,900	12,000	5,300	4,600	63,000	1,700	7,100	2,600	4,400	6,300
Benz(k)fluoranthene	3,500	4,600	6,200	1,200	1,100	19,000	1,700	3,000	660	1,000	3,200
Benzofluoranthene	7,200	4,100	6,400	2,500	2,000	28,000	840	2,800	1,300	2,000	4,700
Chrysene	18,000	11,000	17,000	6,500 B	5,900 B	71,000	640	7,800	3,300 B	5,000 B	9,000
Dibenz(a,h)anthracene	14,000	8,600	14,000	5,500	4,400	74,000	1,500	5,700	3,200 B	4,400	7,000
Fluorene	650	970	1,700	740	220 J	7,600	275	650	360 J	470 J	1,000
Fluoranthene	35,000	19,000	33,000	13,000	10,000	140,000	3,400	12,000	6,100	9,100	16,000
Indeno(1,2,3-cd)pyrene	32,000	12,000	30,000	11,000	8,800	169,000	1,000	8,600	5,000	4,700	13,000
2-Methylanthracene	5,600	3,200	6,200	2,400	1,700	24,000	760	2,200	1,100	1,800	3,400
Naphthalene	87,000	16,000 B	80,000 B	36,000 B	17,000	540,000 B	540	21,000 B	12,000	5,100	7,600 B
Phenanthrene	140,000 B	12,000 B	94,000 B	42,000 B	20,000 B	650,000 B	930	28,000 B	10,000	7,900 B	14,000 B
Pyrene	100,000 B	38,000 B	83,000 B	34,000 B	26,000 B	390,000 B	3,200	24,000 B	16,000	16,000 B	39,000 B
Total PAHs	640,350	205,970	527,500	222,340	146,620	2,911,500	28,805	171,650	87,620	94,470	192,400
Total Organic Carbon (%)	3.95	5	5	3	8	7	2	3	6	6	4
Metals (mg/kg)											
Arsenic	10	15	14	7	15	13	11	10	14.8	15	12
Cadmium	1	1	0	15	1	1	0	0	0.57	1	1
Chromium	128	228	132	61	317	238	75	118	179	274	94
Lead	67	125	83	69	189	151	47	80	93.5	204	109
Grain Size Distribution (%)											
Fines	34.50	83.80	48.10	27.60	88.30	73.20	46.80	44.20	77.40	82.00	72.60
Sand	63.20	16.20	47.20	68.60	11.70	26.60	53.30	53.60	22.30	18.00	26.80
Gravel	12.30	0.00	4.70	3.80	0.00	0.10	0.10	2.20	0.30	0.00	0.60

Table 2 (Cont.)
 Surface Sediment Results
 Squamscott River Outfall, Exeter, NH

Constituent	Oct-08 SD-10-A 0-1 ft.	Oct-08 SD-11-A 0-1 ft.	Oct-08 SD-11A-A 0-1 ft.	Oct-08 SD-12 0-1 ft.	Oct-08 SD-12A-A 0-1 ft.	Dec-08 SD-16-A 0-0.5 ft.	Dec-08 SD-16-A 0-0.5 ft.	Dec-08 SD-18-A 0-0.5 ft.	Dec-08 SD-20-A 0-0.5 ft.	Dec-08 SD-21-A 0-0.5 ft.	Dec-08 SD-22-A 0-0.5 ft.
Acenaphthene	3,900	70,000	44,000	36,000	28,000	280	280	2,500	7,200	330	295
Acenaphthylene	620	6,200	6,200	4,400	3,800	280	280	315	3,000	330	295
Anthracene	2,700 B	34,000	23,000 B	20,000	17,000	280	280	1,200	8,300	330	295
Benzofluoranthene	2,300	18,000	13,000	12,000	11,000	680	840	750	11,000	1,100	295
Benzofluoranthene	2,400	13,000	10,000	8,200	9,500	670	280	315	8,100	1,000	295
Benzofluoranthene	550	3,300	2,400	1,900	2,200	720	280	315	7,700	1,300	295
Benzofluoranthene	1,100	8,200	3,700	4,600	6,400	280	280	315	2,900	330	295
Benzofluoranthene	2,500 B	18,000 B	13,000 B	11,000 B	12,000 B	280	880	315	2,600	330	295
Chrysene	2,200	14,000	9,600	8,600	10,000	640	970	700	8,500	1,600	295
Dibenzofluoranthene	280 J	340	390 J	1,200	1,600	280	280	315	880	330	295
Fluorene	4,000	34,000	24,000	18,000	19,000	970	1,200	1,500	19,000	8700	710
Fluorene	2,600	33,000	22,000	18,000	17,000	280	280	640	5,500	330	295
Fluorene	900	6,600	3,200	3,800	5,100	280	280	315	3,000	330	295
Indeno(1,2,3-cd)pyrene	2,500	120,000	74,000	63,000	44,000	280	280	315	286	330	295
Naphthalene	2,700 B	160,000	84,000 B	75,000	59,000	280	280	315	2,700	330	295
Phenanthrene	8,100 B	98,000	70,000 B	68,000	47,000	280	280	2,000	27,000	1,500	295
Pyrene	4,800	51,000	33,000	30,000	27,000	1,100	1,480	2,000	23,000	2,400	750
Total PAHs	44,250	688,240	434,480	377,700	319,500	7,730	8,460	14,125	140,645	18,800	5,885
Total Organic Carbon (%)	4.0	8.3	7.3	6.8	5.6	2.8	2.6	3.0	2.9	4.9	2.1
Metals (mg/Kg)											
Arsenic	15	12.5	13	14	15	16	16	17	14	10	13
Cadmium	2	1	1	1	1	0.4	0.35	1	1	0.28	0.35
Chromium	83	250	212	218	159	92	130	250	86	71	98
Lead	200	132	171	198	150	60	63	88	150	86	53
Grain Size Distribution (%)											
Fines	80.4	74.8	71.6	68.1	87.0	50.6	85.0	88.6	83.8	32.2	86.3
Sand	19.6	25.1	28.4	28.8	13.0	36.4	14.4	10.8	16.2	65.6	13.7
Gravel	0.0	0.1	0.0	3.1	0.0	13.0	0.7	0.6	0.0	2.2	0.0

Table 2 (Cont.)
 Surface Sediment Results
 Squamscott River Outfall, Exeter, NH

Constituent	SD-23-A 0-0.5 ft.	Dec-08 SD-26-A 0-0.5 ft.	Dec-08 SD-26-A dup. 0-0.5 ft.	Dec-08 SD-26-A 0-0.5 ft.	Dec-08 SD-27-A 0-0.5 ft.	Dec-08 SD-28-A 0-0.5 ft.	Dec-08 SD-29-A 0-0.5 ft.	Dec-08 SD-30-A 0-0.5 ft.	Dec-08 SD-31-A 0-0.5 ft.	Dec-08 SD-32-A 0-0.5 ft.	Dec-08 SD-33-A 0-0.5 ft.
Constituent	SD-23-A 0-0.5 ft.	Dec-08 SD-26-A 0-0.5 ft.	Dec-08 SD-26-A dup. 0-0.5 ft.	Dec-08 SD-26-A 0-0.5 ft.	Dec-08 SD-27-A 0-0.5 ft.	Dec-08 SD-28-A 0-0.5 ft.	Dec-08 SD-29-A 0-0.5 ft.	Dec-08 SD-30-A 0-0.5 ft.	Dec-08 SD-31-A 0-0.5 ft.	Dec-08 SD-32-A 0-0.5 ft.	Dec-08 SD-33-A 0-0.5 ft.
PAH (µg/Kg)											
Acenaphthylene	265	295	295	2000	1,800	115	200	360	850	765	765
Anthracene	265	295	295	1100	1,700	380	200	400	850	490	420
Benzo(a)anthracene	990	880	740	2800	4,400	1,200	200	1,200	910	620	380
Benzo(b)fluoranthene	870	295	295	2100	3,700	980	1,300	2,800	3,100	2100	1300
Benzo(k)fluoranthene	880	640	700	1700	3,700	1,300	1,100	2,100	2,500	1700	1700
Benzo(g,h)perylene	265	295	295	1800	1,600	400	510	800	2,800	2600	1700
Benzo(i)fluoranthene	265	295	295	330	1,600	480	760	800	1,100	670	440
Chrysene	800	295	295	2100	3,700	1,100	1,200	1,200	1,100	800	640
Dibenz(a,h)anthracene	265	295	295	330	280	115	200	2,800	2,700	2200	1600
Fluoranthene	1,100	1,000	1,100	4200	6,700	2,300	2,600	715	715	765	765
Fluorene	265	295	295	1800	1,400	115	200	630	5,500	4100	2800
Indeno(1,2,3-cd)pyrene	265	295	295	330	1,600	420	520	880	1,100	750	500
2-Methylanthracene	265	295	295	330	250	115	200	115	115	165	165
Naphthalene	265	295	295	330	980	115	200	115	115	165	165
Pyrene	1,600	1,200	1,400	6800	2,900	980	1,000	4,600	2,100	1800	1100
Total PAHs	9,065	7,336	8,170	33,680	45,260	12,330	2,100	31,615	29,135	21,555	14,815
Total Organic Carbon (%)	2.9	3.2	3.1	3.1	3.3	1.5	0.9	0.6	0.8	1.1	0.8
Metals (mg/Kg)											
Arsenic	17	17	19	13	14	5.3	5.7	3.4	8	8.6	3.7
Cadmium	0.4	0.72	0.4	0.7	1	0.55	0.2	0.16	0.4	0.17	0.17
Chromium	160	150	180	180	110	100	40	21	29	27	22
Lead	63	66	89	65	110	88	36	39	35	490	43
Grain Size Distribution (%)											
Fines	82.2	94.4	0	78.5	73	12.9	22	10.9	14.5	5.3	5.1
Sand	15.9	5.3	0	18.4	27	69.6	68.8	84.2	82.9	94.3	92.4
Gravel	1.9	0.25	0	3.1	0	17.6	9.2	4.9	2.6	0.4	2.5

Table 2 (Cont.)
Surface Sediment Results
Squamscott River Outfall, Exeter, NH

Constituent PAH (ug/Kg)	Dec-08	Dec-08	Dec-08	Reference Locations	
	SD-34-A 0-0.5 ft.	SD-35-A 0-0.5 ft.	SD-36-A 0-0.5 ft.	SD-13-A 0-1 ft.	SD-14-A 0-1 ft.
Acenaphthylene	690	330	165	68 J	85
Anthracene	800	330	165	290	43
Benzofluoranthene	2400	330	165	170 BU	140
Benzofluoranthene	4400	1300	630	820	300
Benzofluoranthene	3600	330	720	650	420
Benzofluoranthene	4600	1500	960	310	630
Benzofluoranthene	1200	330	165	280 J	220
Benzofluoranthene	1800	1000	165	600 B	330 B
Chrysene	4700	1200	580	820	280
Dibenzofluoranthene	165	330	165	290	49
Fluoranthene	9600	3000	1900	890	660
Fluoranthene	1000	330	165	290	65
Fluoranthene	1400	330	165	250 J	180
Indeno(1,2,3-cd)pyrene	145	330	165	290	6 J
2-Methylfluoranthene	480	330	165	290	19 J
Naphthalene	7000	1700	740	610 B	420
Phenanthrene	7700	2400	1600	880	560
Pyrene	51,500	15,400	9,460	7,008	4,207
Total PAHs	0.831	4.4	3.1	2	1
Total Organic Carbon (%)	3.5	9.9	6.1	8	4
Arsenic	0.18	0.29	0.2	0	0
Cadmium	22	60	54	56	25
Chromium	92	76	36	77	15
Lead					
Grain Size Distribution (%)					
Fines	4.1	33.5	15.9	35.9	24
Sand	86.8	66.3	80.4	51.9	73.7
Gravel	9.1	1.1	3.7	12.2	2.3

Note: Italics indicate results less than the associated analytical reporting limit