Site Characterization Technical Memorandum 2002 Phase III Remedial Investigation Sites 13,15,19, 27 and 22 Northeast Cape, St. Lawrence Island, Alaska

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ACRONYMS AND ABBREVIATIONS

MOC Main Operations Complex

BD/DR building demolition/debris removal

DERP-FUDS Defense Environmental Restoration Program-Formerly Used Defense Sites

RI remedial investigation

RA risk assessment

SC Suqitughneq River cross section

SB soil boring

1.0 INTRODUCTION

Pursuant to Contract No. DACA85-98-D-0007, the United States Army Engineer District, Alaska (Alaska District) contracted with Montgomery Watson to perform Phase III Remedial Investigation (RI) activities at Northeast Cape, St. Lawrence Island, Alaska. The RI was conducted according to the guidelines of the Defense Environmental Restoration Program of the United States Department of Defense. This document presents a brief summary of the work performed in 2002 as part of the Phase III RI. This work was postponed from 2001 due to delays in building demolition/debris removal (BD/DR). Detailed information on work performed, data collected, and an evaluation of the findings will be added to the Phase III RI and RA Update Report Draft Final, to be completed at a later date.

2.0 SUMMARY OF WORK PERFORMED

Sites investigated during the Phase III RI in 2002 are listed in Table 2-1 and shown in Figure 2-1.

Table 2-1 Northeast Cape Phase III RI Sites

Site Number	Site Description
Sites 13, 15, 19, and 27	Main Operations Complex
Site 22	Water Wells and Water Supply Building

Sites 13, 15, 19, and 27, the Main Operations Complex (MOC) were designated Site 88 to simplify field operations and data reporting.

The 2002 Phase III RI fieldwork was performed from August 13 to August 22, 2002. Ten soil borings were advanced beyond the groundwater interface and completed as monitoring wells, eight soil boring were advanced to the groundwater interface or refusal at the MOC (Figure 2-2) and two soil borings were advanced to refusal at Site 22 (Figure 2-3). The ten monitoring wells were developed and sampled (see field forms in Attachment 1). Most of the monitoring wells had limited water recharge and were purged dry during development or sample collection.

Discharge was measured in the Suqitughneq River, at four locations (Figure 2-4). Two measurements were taken at locations where discharge was measured in 2001; another measurement was taken downstream at the location of a cross-section sampled in 2001 (SC-3). Streamflow at the fourth location was too slow to calculate discharge. Discharge cross sections and flow calculations are shown in Figure 2-5.

2.1 ENVIRONMENTAL MEDIA SAMPLING

Environmental media sampled during the Phase III RI Addendum consisted of soil and groundwater. Table 2-2 provides a summary of samples collected. Completed field sampling forms are included in Attachment 2.

Table 2-2 Soil and Groundwater Sampling Summary Northeast Cape Phase III RI Northeast Cape, St, Lawrence Island, Alaska

Site No.	Site Description	Sample Location	DRO/RRO AK102/103 Planned Actual	GRO/BTEX AK101/SW8260B Planned Actual	PAH SW8270C SIM Planned Actual	PCB SW8082 Planned Actual	Pb, Zn, Cr SW6020 Planned Actual	TOC Planned Actual	Alkalinity, Sulfate EPA 3000 Planned Actual	Methane, Ethane, Ethene RSK 175 Planned Actual	Geotechnical Parameters* Planned Actual
13,15,	Main	Soil from	36	36	36	36	36	36			0
19,27	Operations	Borings	36	36	36	36	36	36			3
	Complex	Groundwater	10	10					10	10	
		from Monitoring Wells	10	10					10	10	
22	Water Wells	Soil from	4	4	4	4	4	4			0
	and Water Supply Bldg.	Borings	4	4	4	4	4	4			1
		Total Primary	50	50	50	40	40	40	10	10	0
		Samples	50	50	50	40	40	40	10	10	4

KEY:

* - Geotechnical parameters include sieve analysis ASTM D - 422, specific gravity ASTM D - 854, moisture content ASTM D - 2216, dry bulk density ASTM D - 2937, hydraulic conductivity ASTM D - 4511, soil porosity - calculated

BTEX - benzene, toluene, ethylbenzene, xylenes

Cr - chromium

DRO - diesel range organics

GRO – gasoline range organics

PAH – polynuclear aromatic hydrocarbons

Pb ~ lead

PCB – polychlorinated biphenyl

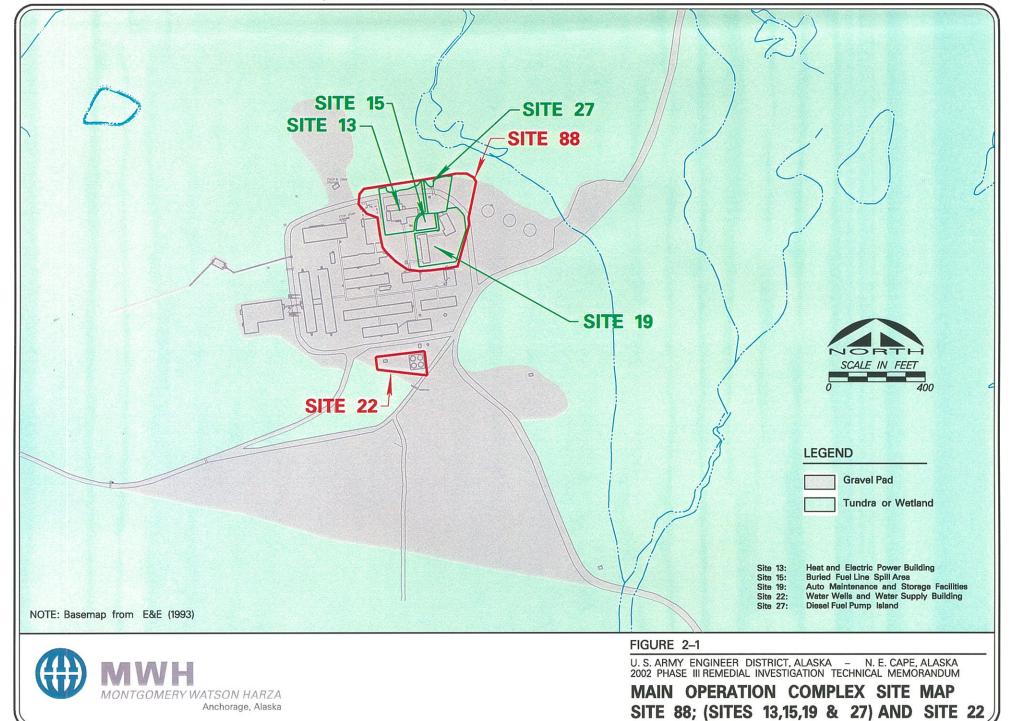
RI - remedial investigation

RRO – residual range organics

SIM - select ion monitoring

TOC - total organic carbon

Zn – zinc



SOILS RESULTS

Soil Sample	Sample	GRO	DRO	RRO	Benzene	Toluene	o-Xylene	m & p- Xylene	Naphthalene	Chromium
Location	(feet bgs)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
MW 88-1	15.5–17.5	19	5000	39 VJ	ND (0.012)	ND (0.027)	ND (0.027)	ND (0.027)	0.0022 VJ	6.5
MW 88-1	17.5-20	4.9	1400	16 VJ	ND (0.011)	ND (0.025)	ND (0.025)	ND (0.025)	0.00038 VJ	4.38
MW 88-2	8-10	ND (3)	ND (12)	6 VJ	ND (0.014)	ND (0.035)	ND (0.035)	ND (0.035)	0.001 VJ	16.1
MW 88-2	10-12	ND (3.6)	ND (11)	7.1 VJ	ND (0.015)	ND (0.037)	ND (0.037)	ND (0.037)	0.00056 VJ	8
MW 88-3	4-6	ND (6)	7.6 VJ	120 VJ	ND (0.023)	ND (0.058)	ND (0.058)	ND (0.058)	0.00081 VJ	22.3
MW 88-3	16–18	51	3700	24 VJ	ND (0.021)	ND (0.051)	ND (0.051)	0.31 VJ	1.5	13.1
MW 88-4	9–11	44	12000	3700	0.047	0.083	0.89	1.6	5.9 VHB	17.3
MW 88-4	11–13	54 VHB	2600	16 VJ	ND (0.018)	ND (0.044)	0.01 VJ	0.29	2.3	3.73
MW 88-5	1-3	ND (2.8)	380	3400	ND (0.012)	ND (0.025)	ND (0.025)	ND (0.025)	0.0041 VJ	42.3
MW 88-5	11–13	ND (4)	21	25 VJ	ND (0.014)	ND (0.034)	ND (0.034)	ND (0.034)	0.0037 VJ	4.5
MW 88-6	7–9	130 VHB	3100	23 VJ	ND (0.012)	ND (0.026)	0.044	0.44	4.1	12.8
MW 88-6	11–13	83 VHB	1200	30 VJ	ND (0.012)	ND (0.028)	0.013 VJ	0.15	1.1	8.3
MW 88-7	7–9	140 VHB	12000	55 VJ	ND (0.012)	ND (0.027)	0.13	1.5	7.9	17
MW 88-7	11–13	130 VHB	9200	54 VJ	ND (0.011)	ND (0.026)	0.38	2.2	8.4	11.6
MW 88-8	10-12	68 VHB	5200	11 VJ	ND (0.018)	ND (0.044)	ND (0.044)	0.17	3.3	9.63
MW 88-8	14-16	73 VHB	2300	7.4 VJ	ND (0.018)	ND (0.045)	ND (0.045)	0.18	2.3	8.34
MW 88-9	8-10	ND (3.5)	7 VJ	8.7 VJ	ND (0.015)	ND (0.036)	ND (0.036)	ND (0.036)	0.00045 VJ	7.04
MW 88-9	20-22	ND (4.8)	7.6 VJ	12 VJ	ND (0.016)	ND (0.038)	ND (0.038)	ND (0.038)	0.0019 VJ	12.5
MW 88-10	22-24	31	1400	ND (110)	ND (0.015)	ND (0.038)	ND (0.038)	ND (0.038)	0.48	10
MW 88-10	24-26	19	750	ND (110)	ND (0.015)	ND (0.038)	ND (0.038)	ND (0.038)	0.11	4.8
SB 88-11	3-5	70	13000	5100	0.12	3.2	2.7	5.1	12	16.5
SB 88-11	7–9	99	51000	6000	0.19	4.5	6.2	12	81	23.7
SB 88-12	4-6	ND (5.2)	190	1500	ND (0.022)	ND (0.054)	ND (0.054)	ND (0.054)	0.0045 VJ	12.4
SB 88-12	10-12	ND (3.8)	20	33 VJ	ND (0.017)	ND (0.043)	ND (0.043)	ND (0.043)	0.0011 VJ	9.62
SB 88-13	6-8	11 VJ	430	4600	0.37	ND (0.18)	0.071 VJ	0.19	0.042	16.5
SB 88-13	14-16	ND (6.1)	77	420	ND (0.022)	ND (0.054)	ND (0.054)	ND (0.054)	0.0018 VJ	14.3
SB 88-14	2-4	220 VHB	47000	3000	0.019	0.036 VJ	1.7	0.71	79	22.7
SB 88-14	12-14	62	210	900	0.024	1.4	1.7	1.3	0.41	22.8
SB 88-15	10-12	ND (4.9)	33	150	ND (0.018)	ND (0.044)	0.01 VJ	ND (0.044)	0.016	23
SB 88-15	12-14	ND (4.4)	79	590	ND (0.021)	ND (0.052)	ND (0.052)	ND (0.052)	0.0047 VJ	23.4
SB 88-16	6-8	110 VHB	16000	33 VJ	ND (0.015)	0.032 VJ	0.015 VJ	1.8	28	15.6
SB 88-16	10-12	60 VHB	4200	12 VJ	ND (0.017)	ND (0.041)	ND (0.041)	0.043	0.9 VLB	6.7
SB 88-17	8-10	130 VHB	4700	450	ND (0.013)	0.05 VHB	1.5 VHB	4 VHB	12	18.2
SB 88-17	12-14	140 VHB	4300	110 VJ	ND (0.012)	ND (0.023)	0.34 VHB	3 VHB	3.6	8.31
SB 88-18	8-10	100 VHB	7300	24 VJ	0.018 VHB	0.018 VJ	0.019 VJ	0.95 VHB	10	14
SB 88-18	10-12	170 VHB	4000 VJ	226	0.062 VJ	0.041	1.3 VJ	4.4 VJ	6.9 VJ	16.7 VJ

Ethylbenzene results did not exceed ADEC Method 2

WATER RESULTS

Sample Location			RRO (mg/L)	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	o-Xylene (mg/L)	m & p – Xylen (mg/L)	
MW 88-1	0.024 VJ	1.2	0.43	0.00058	ND (0.0005)	0.00061 VB	0.00013 VJ	0.00022 VJ	
MW 88-2	ND (0.05)	0.71	1.3	0.00092	0.00034 VJ	0.00036 VB	0.0001 VJ	0.00035 VJ	
MW 88-3	0.42	34	0.22	0.00057	0.025	0.00024 VB	0.00008 VJ	0.022	
MW 88-4	1.2	72	1.9	0.03	0.12	0.0032	0.007	0.085	
MW 88-5	1.3	9.8	2.3	0.019	0.035	0.12	0.071	0.14	
MW 88-6	1.1	69	2.1	0.00074	0.052	0.00019 VB	0.0038	0.055	
MW 88-7	1.5	6.1 VLB	0.32	0.014	0.072	0.0012 VB	0.024	0.13	
MW 88-8	0.52	20	0.18 VJ	0.00012 VJ	0.018	0.00011 VB	0.00064	0.016	
MW 88-9	0.064	0.71	ND (0.2)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	
MW 88-10	0.12	55	1.3	0.0027	0.0017	0.0014	0.00015 VJ	0.00079	

KEY

DRO - diesel range organics

GRO - gasoline range organics

mg/Kg - milligrams per kilogram

mg/L - milligrams per liter

MW - monitoring well ND - not detected

RRO - residual range organics SB - soil boring

VB - analyte present in the blank and the sample

VHB - results positively biased

VJ - results negatively biased

VLB - estimated value

Bold - exceed ADEC Method 2 clean-up level

() - method reporting limit

LEGEND

Monitoring Well/Soil Sample Location (2002)

Borehole/Soil Sample Location (2002)

Borehole (BH)

Monitoring Well (MW)

Surface Soil Sample (SS)

Surface Water/Sediment Sample (SW/SD)

Gravel Pad

Tundra or Wetland

Surface Water Drainage



Anchorage, Alaska

FIGURE 2-2

U. S. ARMY ENGINEER DISTRICT, ALASKA – N. E. CAPE, ALASKA 2002 PHASE III REMEDIAL INVESTIGATION TECHNICAL MEMORANDUM

SITE 88 (SITES 13, 15, 19, & 27) – MAIN OPERATIONS COMPLEX SAMPLING LOCATIONS & SELECTED RESULTS

Figure 2-2 (Updated) SOILS RESULTS

Sample ID	Soil Sample	Sample	GRO	DRO	RRO	Benzene	Toluene	o-Xylene	m & p- Xylene	Naphthalene	Chromium
	Location	(feet bgs)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
02NE88SB001	MW 88-1	15.5-17.5	19	5000	39 VJ	ND (0.012)	ND (0.027)	ND (0.027)	ND (0.027)	0.0022 VJ	6.5
02NE88SB002	MW 88-1	17.5-20	4.9	1400	16 VJ	ND (0.011)	ND (0.025)	ND (0.025)	ND (0.025)	0.00038 VJ	4.38
02NE88SB003	MW 88-2	8-10	ND (3)	ND (12)	6 VJ	ND (0.014)	ND (0.035)	ND (0.035)	ND (0.035)	0.001 VJ	16.1
02NE88SB004	MW 88-2	10-12	ND (3.6)	ND (11)	7.1 VJ	ND (0.015)	ND (0.037)	ND (0.037)	ND (0.037)	0.00056 VJ	8
02NE88SB005	MW 88-3	4-6	ND (6)	7.6 VJ	120 VJ	ND (0.023)	ND (0.058)	ND (0.058)	ND (0.058)	0.00081 VJ	22.3
02NE88SB006	MW 88-3	16-18	51	3700	24 VJ	ND (0.021)	ND (0.051)	ND (0.051)	0.31 VJ	1.5	13.1
02NE88\$B007	MW 88-4	9-11	44	12000	3700	0.047	0.083	0.89	1.6	5.9 VHB	17.3
02NE88SB008	MW 88-4	11-13	54 VHB	2600	16 VJ	ND (0.018)	ND (0.044)	0.01 VJ	0.29	2.3	3.73
02NE88SB009	MW 88-5	1-3	ND (2.8)	380	3400	ND (0.012)	ND (0.025)	ND (0.025)	ND (0.025)	0.0041 VJ	42.3
02NE88SB010	MW 88-5	11-13	ND (4)	21	25 VJ	ND (0.014)	ND (0.034)	ND (0.034)	ND (0.034)	_ 0.0037 VJ	4.5
02NE88SB011	MW 88-6	7-9	130 VHB	3100	23 VJ	ND (0.012)	ND (0.026)	0.044	0.44	4.1	12.8
02NE88SB012	MW 88-6	11-13	83 VHB	1200	30 VJ	ND (0.012)	ND (0.028)	0.013 VJ	0.15	1.1	8.3
02NE88SB013	MW 88-7	7-9	140 VHB	12000	55 VJ	ND (0.012)	ND (0.027)	0.13	1.5	7.9	17
02NE88SB014	MW 88-7	11-13	130 VHB	9200	54 VJ	ND (0.011)	ND (0.026)	0.38	2.2	8.4	11.6
02NE88SB015	MW 88-8	10-12	68 VHB	5200	11 VJ	ND (0.018)	ND (0.044)	ND (0.044)	0.17	3.3	9.63
02NE88SB016	MW 88-8	14-16	73 VHB	2300	7.4 VJ	ND (0.018)	ND (0.045)	ND (0.045)	0.18	2.3	8.34
02NE88SB017	MW 88-9	8-10	ND (3.5)	7 VJ	8.7 VJ	ND (0.015)	ND (0.036)	ND (0.036)	ND (0.036)	0.00045 VJ	7.04
02NE88SB018	MW 88-9	20-22	ND (4.8)	7.6 VJ	12 VJ	ND (0.016)	ND (0.038)	ND (0.038)	ND (0.038)	0.0019 VJ	12.5
02NE88SB019	MW 88-10	22-24	31	1400	ND (110)	ND (0.015)	ND (0.038)	ND (0.038)	ND (0.038)	0.48	10
02NE88SB020	MW 88-10	24-26	19	750	ND (110)	ND (0.015)	ND (0.038)	ND (0.038)	ND (0.038)	0.11	4.8
02NE88SB021	SB 88-11	3-5	70	13000	5100	0.12	3.2	2.7	5.1	12	16.5
02NE88SB022	SB 88-11	7-9	99	51000	6000	0.19	4.5	6.2	12	81	23.7
02NE88SB023	SB 88-12	4-6	ND (5.2)	190	1500	ND (0.022)	ND (0.054)	ND (0.054)	ND (0.054)	0.0045 VJ	12.4
02NE88SB024	SB 88-12	10-12	ND (3.8)	20	33 VJ	ND (0.017)	ND (0.043)	ND (0.043)	ND (0.043)	0.0011 VJ	9.62
02NE88SB025	SB 88-13	6-8	11 VJ	430	4600	0.37	ND (0.18)	0.071 VJ	0.19	0.042	16.5
02NE88SB026	SB 88-13	14-16	ND (6.1)	77	420	· ND (0.022)	ND (0.054)	ND (0.054)	ND (0.054)	0.0018 VJ	14.3
02NE88\$B027	SB 88-14	2-4	220 VHB	47000	3000	0.019	0.036 VJ	1.7	0.71	79	22.7
02NE88SB028	SB 88-14	12-14	62	210	900	0.024	1.4	1.7	1.3	0.41	22.8
02NE88SB029	SB 88-15	10-12	ND (4.9)	33	150	ND (0.018)	ND (0.044)	0.01 VJ	ND (0.044)	0.016	23
02NE88SB030	SB 88-15	12-14	ND (4.4)	79	590	ND (0.021)	ND (0.052)	ND (0.052)	ND (0.052)	0.0047 VJ	23.4
02NE88SB031	SB 88-16	6-8	110 VHB	16000	33 VJ	ND (0.015)	0.032 VJ	0.015 VJ	1.8	28	15.6
02NE88SB032	SB 88-16	10-12	60 VHB	4200	12 VJ	ND (0.017)	ND (0.041)	ND (0.041)	0.043	0.9 VLB	6.7
02NE88SB033	SB 88-17	8-10	130 VHB	4700	450	ND (0.013)	0.05 VHB	1.5 VHB	4 VHB	12	18.2
02NE88SB034	\$B 88-17	12-14	140 VHB	4300	110 VJ	ND (0.012)	ND (0.023)	0.34 VHB	3 VHB	3.6	8.31
02NE88SB035	SB 88-18	8-10	100 VHB	7300	24 VJ	0.018 VHB	0.018 VJ	0.019 VJ	0.95 VHB	10	14
02NE88SB036	SB 88-18	10-12	170 VHB	4000 VJ	226	0.062 VJ	0.041	1.3 VJ	4.4 VJ	6.9 VJ	16.7 VJ

Notes:

Values shown in **BOLD** exceed ADEC Method 2, under 40 inch zone, migration to groundwater pathway, Ethylbenzene results did not exceed ADEC Method 2 PCB results did not exceed ADEC Method 2

Cross Reference Index Sample ID, Location, and Depth

Sample ID	Soil Sample	Sample
	Location	(feet bgs)
02NE88SB001	MW 88-1	15.5-17.5
02NE88SB002	MW 88-1	17.5-20
02NE88SB003	MW 88-2	8-10
02NE88SB004	MW 88-2	10-12
02NE88SB005	MW 88-3	4-6
02NE88SB006	MW 88-3	16-18
02NE88SB007	MW 88-4	9-11
02NE88SB008	MW 88-4	11-13
02NE88SB009	MW 88-5	1-3
02NE88SB010	MW 88-5	11-13
02NE88SB011	MW 88-6	7-9
02NE88SB012	MW 88-6	11-13
02NE88SB013	MW 88-7	7-9
02NE88SB014	MW 88-7	11-13
02NE88SB015	MW 88-8	10-12
02NE88SB016	8-88 WM	14-16
02NE88SB017	MW 88-9	8-10
02NE88SB018	MW 88-9	20-22
02NE88SB019	MW 88-10	22-24
02NE88SB020	MW 88-10	24-26
02NE88SB021	SB 88-11	3-5
02NE88SB022	SB 88-11	7-9
02NE88SB023	SB 88-12	4-6
02NE88SB024	SB 88-12	10-12
02NE88SB025	SB 88-13	6-8
02NE88SB026	SB 88-13	14-16
02NE88SB027	SB 88-14	2-4
02NE88SB028	SB 88-14	12-14
02NE88SB029	SB 88-15	10-12
02NE88SB030	SB 88-15	12-14
02NE88SB031	SB 88-16	6-8
02NE88SB032	SB 88-16	10-12.
02NE88SB03 <u>3</u>	SB 88-17	8-10
02NE88SB034	SB 88-17	12-14
02NE88SB035	SB 88-18	8-10
02NE88SB036	SB 88-18	10-12

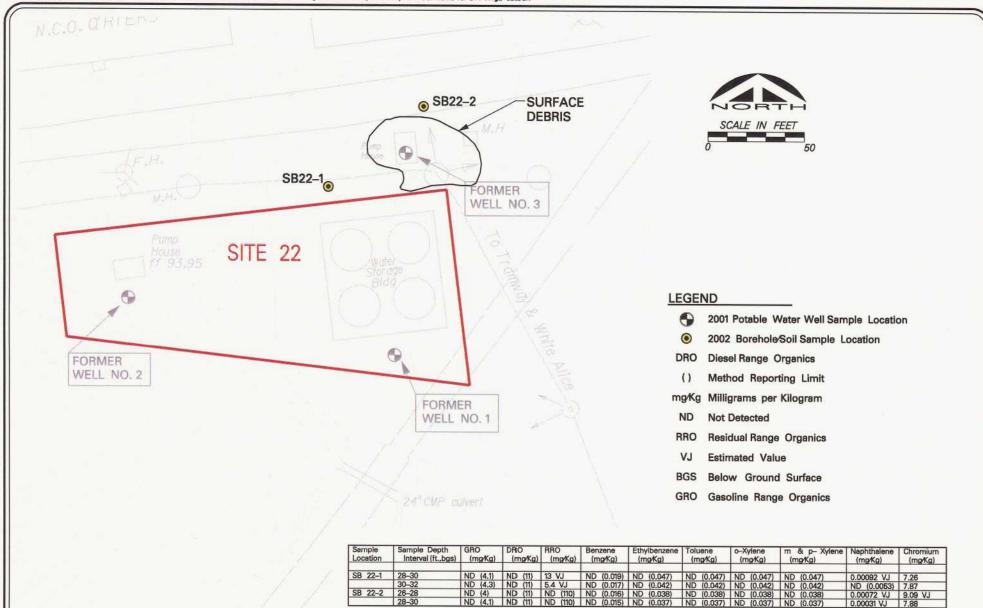


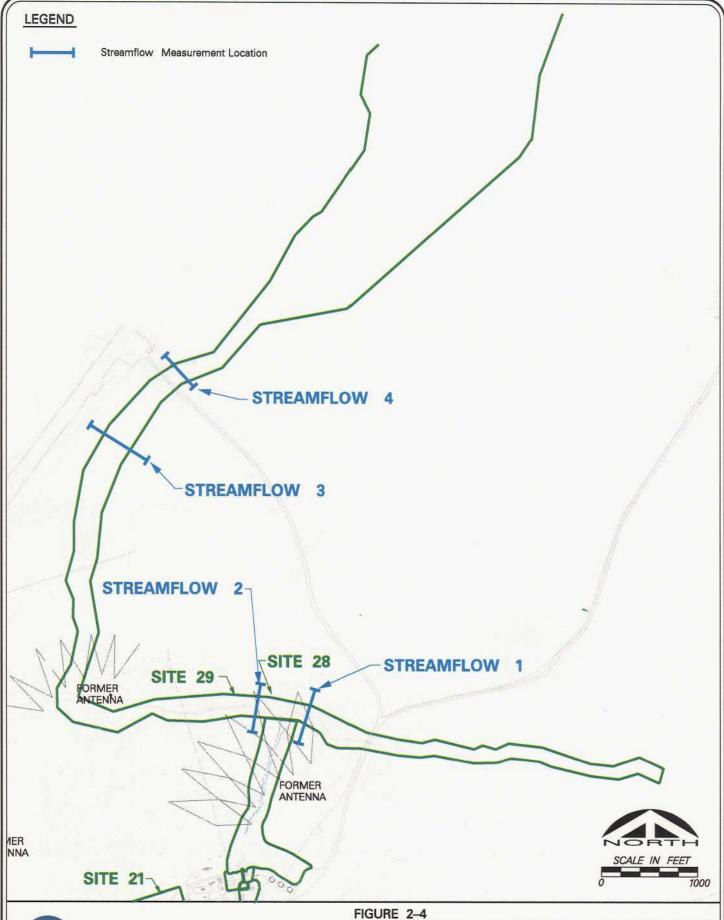


FIGURE 2-3

U. S. ARMY ENGINEER DISTRICT, ALASKA - N. E. CAPE, ALASKA 2002 PHASE III REMEDIAL INVESTIGATION TECHNICAL MEMORANDUM LOCATIONS AND SELECTED RESULTS

LOCATIONS AND SELECTED RESULTS SITE 22 FORMER WATER WELLS AND WATER SUPPLY BUILDING 2002 SAMPLING

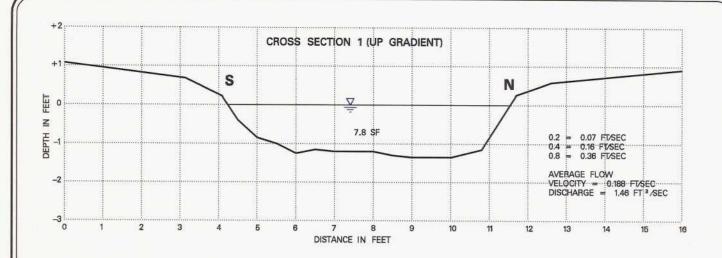


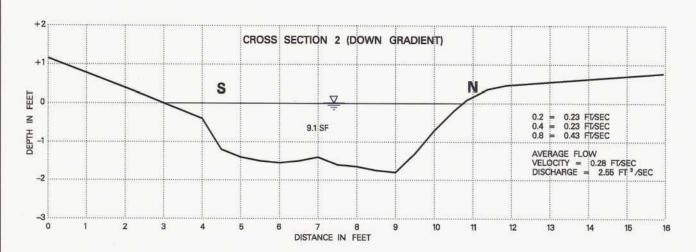


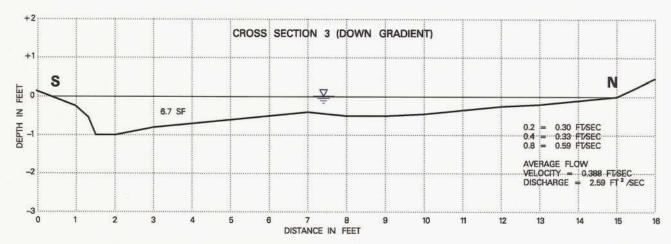


U. S. ARMY ENGINEER DISTRICT, ALASKA – N. E. CAPE, ALASKA 2002 PHASE III REMEDIAL INVESTIGATION TECHNICAL MEMORANDUM

SITE 29 - SUQITUGHNEQ RIVER 2002 STREAMFLOW MEASUREMENT LOCATION







Marsh-McBirney Discharge Calculation

- 1. Identify the centerline of the channel.
- 2. Calculate positions on the centerline by:
 0.2 X depth
 0.4 X depth
 0.8 X depth
 4. A d
- 3. Measure velocity at the .2, .4, and .8 positions from the bottom using flowmeter.
 4. Average the .2 and .8 velocities; average this value with the .8 velocity.
 5. Multiply velocity (ft/sec) by area (ft/2 /sec) to get discharge (ft/3/sec)



FIGURE 2-5

U. S. ARMY ENGINEER DISTRICT, ALASKA - N. E. CAPE, ALASKA 2002 PHASE III REMEDIAL INVESTIGATION TECHNICAL MEMORANDUM

CALCULATION OF DRAINAGE BASIN DISCHARGE

Sampling locations and selected analytical results are shown on Figures 2-2 (Site 88) and Figure 2-3 (Site 22), A complete summary of analytical results are included in Attachment 2. Survey data is included in Attachment 3.

The focus of the 2002 Phase III RI environmental media sampling was to collect sufficient soil and groundwater samples at the MOC and Site 22 to achieve the following:

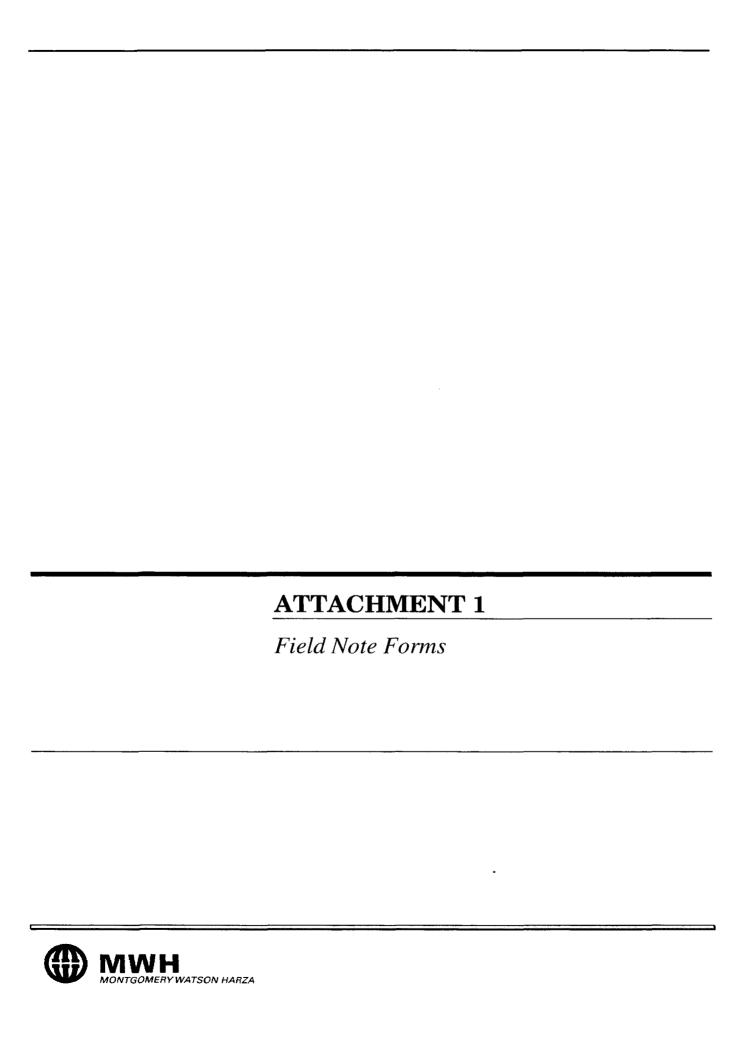
- Determine the volume, including depth and areal extent, of contaminated soil at the MOC
- Evaluate the impact of a utilidor at Site 22 on the surrounding soil.
- Determine the depth to the deep aquifer inferred to be present below the MOC
- Perform a hydrologic characterization study at the MOC.
- Update the Human Health and Ecological Risk Assessments for Site 22 and sites at the MOC where applicable.

2.2 SUQITUGHNEQ RIVER FLOW MEASUREMENT

The flow rate of the Suqitughneq was measured at the same locations as in 2001 to evaluate the difference in discharge rates and at an additional point west of the bridge leading from the airstrip (Figures 2-4 and 2-5). An attempt was made to measure the flow east of the bridge, near the lagoon, but the flow was shallow and slight and failed to register on the flow meter. It was observed that all water levels were at the lowest in recent times in the ponds, streams, and discharge points throughout the facility.

3.0 DEVIATIONS FROM THE WORK PLAN

All fieldwork was performed in accordance with the Work Plan, Phase III Remedial Investigation, Northeast Cape, St. Lawrence Island, Alaska, Final (MW, 2001), except at Site 22. The two soil borings at Site 22 (SB 22-1 and SB 22-2) were planned to continue to the groundwater interface, but were terminated due to refusal at the bedrock surface at 32 and 36 feet below ground surface.



									-			S	oil			<u> </u>	Gr	roundw	vater	ίΩ	Geote	echnical
										DRO/RRO AK 102/103	GRO AK101	BTEX SW8260B	PAHSIM SW8270C	B SWB(Pb, Zn, Cr SW6020 TOC	DRO/RHO AK102/103	GRO AK101	BTEX SW8260B	Alkalinity EPA 300	Sulfate EPA 300 Methan, Ethane, Ethene, RSK 175	Gravity	Dry Bulk Densit ASTM D-2937, Hydraulic Conductivity ASTM D- 4511, Soil Porosity - Calculated
Sample ID	Sample Type			n Date 2002	Time	Depth		aborator			1		-	1 .	1 1		0	<u> </u>	₹	(V) 2	0,0,2	0.1.4
02NE88SB001 02NE88SB001	MS/MSD	Soil Soil	MW-1	08/14/02 08/14/02	1530 1530	15.5-17.5 15.5-17.5	204	CAS	1,2	1	1		1	1	1 1	l					{	-
02NE88SB002 02NE88SB003	N N	Soil Soil	MW-1 MW-2	08/14/02 08/14/02	1600 1645	17.5-20.0 8.0-10.0	98.7 30.9	CAS	1,2 1,2	1	1	1	1	1	1 1							
02NE88SB004 02NE88SB005	N	Soil Soil	MW-2 MW-3	08/14/02 08/15/02	1700 1155	10.0-12.0 4.0-6.0	13.8 67.7	CAS	1,2 1,2	1	1	1	1	1	1 1	İ						
02NE88SB006 02NE88SB206	N ED	Soil Solt	MW-3	08/17/02 08/17/02	1110 1 1110	16.0-18.0 16.0-18.0	185.8	CAS	1,2 1,2	1	1	1	1	1 100	1 1 1/ 1.1.]					1	1
02NE88SB306 02NE88SB007	QA N	Soil Soil	MW-3 MW-4	08/17/02 08/17/02	1110 1320	16.0-18.0 9.0-11.0	284	STL CAS	14 1,2	1	1	1	1	1	1 1						l	
02NE88SB008	N	Soil	MW-4	08/17/02	1330	11.0-13.0	440	CAS	1,2	i	1	1	1	1	1 1	l					l	
02NE88SB009 02NE88SB010	N N	Soil Soil	MW-5 MW-5	08/17/02 08/17/02	2000 2030	1.0-3.0 11.0-13.0		CAS	1,2 1,2	1	1	1	1	1	1 1							1
02NE88SB011 02NE88SB012	N N	Soil Soil	MW-6 MW-6	08/18/02 08/18/02	1145 1155	7.0-9.0 11.0-13.0	185 111	CAS	1,2 1,2	1	1	1 1	1	1	1 1						1	1
02NE88SB013 02NE88SB014	N N	Soil Soil	MW-7 MW-7	08/18/02 08/18/02	1335 1350	7.0-9.0 11.0-13.0	695 627	CAS	1,2 1,2	1	1	1	1	1	1 1	l						- 1
02NE88SB015	N N	Soil Soil	MW-8 MW-8	08/18/02 08/18/02	1700 1720	10.0-12.0	1248* >10,000*	CAS	9, 10 9, 10	i	1	1	1	1		l						- 1
02NE88SB016 02NE88SB016	MS/MSD	Soil	MW-8	08/18/02	1720	14.0-16.0		CAS	9, 10	'	1	1										1
02NE88SB017 02NE88SB017	N MS/MSD	Soil Soil	MW-9 MW-9	08/19/02 08/19/02	1310 1 310	8.0-10.0 8.0-10.0	2876*	CAS CAS	9, 10 9, 10	1	1	1	1	1	1 1 1	1						-
02NE88SB018 02NE88SB019	N N	Soil Soil	MW-9 MW-10	08/19/02 08/19/02	1355 1705	20.0-22.0 22.0-24.0	342* 881*	CAS	9, 10 9, 10	1 1	1 1	1	1	1	1 1							
02NE88SB020 02NE88SB021	N N	Soil Soil	MW-10 SB-11	08/19/02 08/17/02	1715 1820	24.0-26.0 3.0-5.0	352*	CAS	9, 10	1	1	1	1	1	1 1	1						ł
02NE88SB022	N	Soil	SB-11	08/17/02	1840	8.0-10.0		CAS	1,2 1,2	1	1	1	1	i	1 1	1						1
02NE88SB023 02NE88SB024	N N	Soil Soil	SB-12 SB-12	08/20/02 08/20/02	1250 1305	4.0-6.0 10.0-12.0	89 53	CAS	9, 10 9, 10	1	1	1	1	1	1 1	1						
02NE88\$B025 02NE88\$B026	N N	Soil Soil	SB-13 SB-13	08/20/02 08/20/02	1415 1435	6.0-8.0 14.0-16.0	153 11.2	CAS	9, 10 9, 10	1	1	1	1	1	1 1							
02NE88SB027 02NE88SB028	N N	Soil Soil	SB-14 SB-14	08/20/02 08/20/02	1505	2.0-4.0	6080	CAS	9, 10	H	1	1	1	1	1 1						1	
02NE88SB029	N	Soil	SB-15	08/20/02	1530 1730	12.0-14.0 10.0-12.0	150 277.9	CAS	9, 10 9, 10	H	1	1	1	1	1 1	1						l
02NE88SB030 02NE88SB031	N N	Soil Soil	SB-15 SB-16	08/20/02 08/20/02	1735 1850	12.0-14.0 6.0-8.0	133 1558	CAS	9, 10 9, 10	1	1	1	1	1	1 1						1	İ
02NE88\$B032 02NE88\$B033	N N	Soit Soil	SB-16 SB-17	08/20/02 08/21/02	1905 1500	10.0-12.0 8.0-10.0	2672 >10,000	CAS	9, 10 12, 13	1:	1	1	1	1	1 1						1	ļ
02NE88SB034 02NE88SB234	N	Soil	SB-17 SB-17	08/21/02 08/21/02	1510 1515	12.0-14.0	>10,000	CAS	12, 13	1	1	1	1	1	1 1						1	ŀ
02NE88SB035	N	Soil	SB-18	08/21/02	1555	8.0-10.0	4903	CAS	12, 13	1	1	1	1	1	1 1						1	ŀ
02NE88SB235 02NE88SB235	QA QAMBMED		SB-18	08/21/02 08/21/02	1600 1600	Kana Salah	Jan 2 (191)	STL STL	14 14	1	1 9,1	1	1	1 1 %	1 1 1 1							ì
02NE88SB036 02NE88SB236	N A Property State (State (Sta	Soil	SB-18	08/21/02 08/21/02	1605 1 607	10.0-12.0	4113	CAS CAS	12, 13 + 12, 13	1 314	ີ່1 ພ¥∺	1	1.0	1.47	1 1	1						
02NE88SB037 02NE88SB237	N N	Soil	SB-22-1	08/22/02 08/22/02	1400 1405	28.0-30.0	0	CAS CAS	12, 13 12, 13	1	1	1	1	1	1 1 1 1							
02NE88SB038	N N	Soil	SB-22-1	08/22/02	1410	30.0-32.0	0	CAS	12, 13	(31.5) 1	1	3.865 1	1	1	i 1	1						
02NE88SB338 02NE88SB039	QA N	Soil Soil	SB-22-1 SB-22-2	08/22/02 08/22/02	1415 1935	26.0-28.0	0	STL CAS	14 12, 13	1 1	1	1	1	1	1 1	1						ļ
02NE88SB239 02NE88SB040	No. 18 PD Land 2	Soil Soil	SB-22-2 SB-22-2	08/22/02 08/22/02	1940 1950	28.0-30.0		CAS	12, 13 12, 13	1	. 1	1			1 .1						1	ļ
02NE88SB340 02NE88SB041	QA N	Soil	SB-22-2 MW-6	08/22/02 08/18/02	1955	4.0-6.0		STL	14	ļ <u>;</u>	1	i			<u>i i</u>	_					╀-	
02NE88SB042	N	Soil	MW-9	08/19/02	1315	10.0-12.0	90.B	R&M	15												1	1
02NE88SB043 02NE88SB044	N N	Soil Soil	SB-16 SB-18	08/20/02 08/21/02	1900 1605	8.0-10.0 9.0-11.0		R&M R&M	15 15	L									_		1	1
02NE88GW001 02NE88GW002	N N	Groundwater Groundwater	MW-1 MW-2	08/17/02 08/17/02	1400 1700		-	CAS CAS	3 3							1	1	1	1	1 1		
02NE88GW003 02NE88GW004	N N	Groundwater Groundwater	MW-3 MW-4	08/19/02 08/19/02	1230	-	-	CAS	5, 6, 7	1						[]	1	1	1	1 1	1	
02NE88GW204	ALL TO MAKE	Gaoundwater	MW-4	08/19/02	1400 1410	ar atam di ili	Basan Janas	CAS	5, 6, 7 5, 6, 7	1						1.	1.	1	100	de d	:1	ŀ
02NE88GW304 02NE88GW304	OA MS/MSD	Groundwater Groundwater	MW-4	08/19/02 08/19/02	1420 1420	11. No. 110		STL STL	8 8							1	1	1	1	1 1		
02NE88GW005 02NE88GW006	N N	Groundwater Groundwater	MW-5 MW-6	08/19/02 08/20/02	1500 1300	-	-	CAS	5, 6, 7 5, 6, 7	1						1	1	1	1	1 1		
02NE88GW007 02NE88GW007	N MS/MSD	Groundwater Groundwater	MW-7	08/20/02 08/20/02	1400		-	CAS	5, 6, 7	1						1:	1	1	1	1 1	1	Ì
02NE88GW008	N	Groundwater	MW-7 MW-8	08/20/02	1400 1500		-	CAS	5, 6, 7 5, 6, 7	1							1	1	1	1 1	1	ſ
02NE88GW009 02NE88GW010	N	Groundwater Groundwater	MW-9 MW-10	08/21/02 08/21/02	1500 1400	-	•	CAS CAS	11 11							1	1	1	1	1 1		
02NE88TB001	Trip Blank	Soil		08/14/02	2100	 _	-	CAS	2	1						-		1			┼	
02NE88TB002	Trip Blank Trip Blank	Water	-	08/17/02	2100	•	-	CAS	3	i						1	1	i		1		
02NE88TB003 02NE88TB004	Trip Blank	Water Water	-	08/19/02 08/19/02	2100 2100	:	-	STL	5 8							l	1	1		1		
02NE88TB005 02NE88TB006	Trip Blank Trip Blank	Soil Water	-	08/18/02 08/19/02	2100 2100	:		CAS	10 11								1	1 1		1		
02NE88TB007 02NE88TB008	Trip Blank Trip Blank	Soil Soil	•	08/21/02 08/17/02	2100 2100	-		CAS STL	12 14	1							1	1				
										T					-	1	<u> </u>	÷			T	
02NE88EB001 02NE88EB002	Equipment Blank Equipment Blank	Water Water	-	08/14/02 08/17/02	2100 2100		-	CAS	3	1						1		1			1	
02NE88EB003 02NE88EB004	Equipment Blank Equipment Blank	Water Water		08/18/02 08/19/02	2100 2100		-	CAS	3 11							1		1				
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KEY:

KEY:

>- greater than
AK- Alaska Method
ASTM- American Society for Testing and Materials
BTEX- benzene, toluene, ethylbenzene, xylenes
CAS- Columbia Analytical Services
Cr. chromium
DRO/RRO- diesel range organics/residual range organics
EPA Environmental Protection Agency
FD- field duplicate
GRO- gasoline range organics
MS/MSD- matrix spike/matrix spike duplicate
N- primary sample
Pb- lead
PID- photo-ionization detector
OA- quality assurance
R&M- R&M Geotechnical services
STL- Severn Trent Laboratories
TOC- total organic carbon
Zn- zinc

	Date: 8-12-02 Time: 1500	Job Number:	1850574.260120
	Client: USACE		,
~~	Site-Specific Location: Northeast Cape, St. Lav	werence Island	
	Safety Topics Presented		
	Protective Clothing/ Equipment:		
	Chemical Hazards:		·
	Physical Hazards: AIR TRAVEL		
	Special Equipment:		
	Other (IIPP):		
	Emergency Procedure: 911, Medevac LifeGa	urd Alaska Flight 1-80	00-478-5433
	Hospital: Norton Sound Phone: Regional, Nome AK	Ambulance l	Phone:
	Hospital Address Map Located in work Plan F Route:	_	
	ATTENDEES		
-	Doug Quis'T	SI Jungely	GNATURE
	Bill Oconne	WITCHM A.	Clust
•			
	Meeting Conducted By: Bonnie McLean Name Printed	Saxuel Saxuel	in Mchea Signature
	Project Safety Officer: Bonnie McLean	Project Mana	ger: Bonnie McLean



	Date: 8-13-62 Time: 1850574.260120
• • •	Client: USACE
معدا	Site-Specific Location: Northeast Cape, St. Lawerence Island
	Safety Topics Presented
	Protective Clothing/ Gloves (chemical resistent), Equipment: RAND GEAR, Steel for boots, handhars
	Chemical Hazards: POL
	Physical Hazards: WIND RAIN SIIP FAIL NAIS in Donned Like
	Special Equipment: Bear WATCh, SAT phone, Acche tenta store
	Other (IIPP): Drinker, WATER
	Emergency Procedure: SAT place OO — 911, Medevac LifeGaurd Alaska Flight 1-800-478-5433
	Hospital: Norton Sound Phone: Ambulance Phone: Regional, Nome AK
	Hospital Address Map Located in work Plan Fig. 5-1 Route:
	ATTENDEES
	NAME PRINTED SIGNATURE
	Riel O Connell Without A- Elinal
	graya Turner
	Meeting Conducted By: Bonnie McLean Name Printed Signature
	Project Safety Officer: Bonnie McLean Project Manager: Bonnie McLean Signature



D	ate: 8-14-02 Time: 7000 Job Number: 1850574.260120
PED C	lient: USACE
S	ite-Specific Location: Northeast Cape, St. Lawerence Island
S	afety Topics Presented
	rotective Clothing/ Cloves (chemical resistent), Equipment: RATESCEAR, Steel for boots, harohars
C	Chemical Hazards: POL Duill Rie Openations
P	Physical Hazards: WIND RAIN SIP FAIL NAILS in GOARD FOR
S	special Equipment: Bana WATch, SAT phone, Accho fent & Son
c	Other (IIPP): Drunker, WATER
E	Emergency Procedure: 911, Medevac LifeGaurd Alaska Flight 1-800-478-5433
ŀ	Hospital: Norton Sound Phone: Ambulance Phone: Regional, Nome AK
	Hospital Address Map Located in work Plan Fig. 5-1 Route:
A	ATTENDEES
Ī	NAME PRINTED SIGNATURE
7	Roton New Land
Doed.	Man d Kengulenk Te
ľ	Meeting Conducted By: Bonnie McLean Name Printed Signature
I	Project Safety Officer: Bonnie McLean Project Manager: Bonnie McLean Signature
_	



Date: 8-15-02 Time: 1100 Job Number: 1850574.260120
Client: USACE
Site-Specific Location: Northeast Cape, St. Lawerence Island
Safety Topics Presented
Protective Clothing/ Equipment: Nain gran, hard hat, basts
Chemical Hazards: Des Pol
Chemical Hazards: Des Pol Décil Rig operation Physical Hazards: Der fell wind blown delone
Special Equipment: set phone remote
Other (IIPP):
Emergency Procedure: 911, Medevac LifeGaurd Alaska Flight 1-800-478-5433
Hospital: Norton Sound Phone: Ambulance Phone: Regional, Nome AK
Hospital Address Map Located in work Plan Fig. 5-1 Route:
ATTENDEES
Johanne Dreher SIGNATURE
History & Garnell William & Garling
ENGY TURNER Surg Times
Meeting Conducted By: Bonnie McLean Name Printed Signature
Project Safety Officer: Bonnie McLean Project Manager: Bonnie McLean Signature



Client: USACE Time: 1540 Job Number: 1850574.260120
Client: USACE
Site-Specific Location: Northeast Cape, St. Lawerence Island
Safety Topics Presented
Equipment: RAINGEAR, Steel too boots, handhars
Chemical Hazards: POL Duill Rie Openations
Physical Hazards: WIND RAIN SIIP FAIL NAILS in borned For
Special Equipment: Bana WATch, SAT phone, Accts tents show
Other (IIPP): Drunker, WATER
Emergency Procedure: SAT phone OO - 911, Medevac LifeGaurd Alaska Flight 1-800-478-5433
Hospital: Norton Sound Phone: Ambulance Phone: Regional, Nome AK
Hospital Address Map Located in work Plan Fig. 5-1 Route:
ATTENDEES
Bill Ocomoco Doug Guist Supti
gings Town
Meeting Conducted By: Bonnie McLean Name Printed Signature
Project Safety Officer: Bonnie McLean Project Manager: Bonnie McLean Signature



Date:	3-17-02	11me:	JO Jo	od Number:	1850574.260120	
Client: _	USACE					
Site-Spec	eific Location:	Northeast Cape, S	St. Lawerence I	sland		
Safety T	opics Presente	_				
Protective Equipme	e Clothing/	Gloves(ch Rangear,	enical 1	esistent of boots	, haroha	T.S.
Chemica	l Hazards:	POL		7:		
Physical	Hazards: <u>k</u>	lind RAIN S	110 FAIL	NAIS	in board	Tex
Special E		BOAR WATCH			Acetro te	nta
Other (II	PP): Drew	nku, WATER	Ţ			
Emergen	cy Procedure:	SAT phon 911, Medevac L			0-478-5433	
Hospital:	Norton Sour Regional, N AK		······································	Ambulance Pl	hone: 	
	Address Mag	p Located in work l	Plan Fig. 5-1			
Hospital Route:						
_	DEES					
Route:	NAME PI	RINTED	Mel	led A SIC	MATURE	
Route:	NAME PI		Wal Do	Dead A Dingle In	SNATURE mult	
Route:	NAME PI		Md De	lead A Daughe to	SHATURE mul	
Route: ATTEN	NAME PI Comme Quis Sh Ne		<i>Bo</i>	Pearl A Sico	Signature	
Route: ATTEN Route Route Meeting	NAME PI Comme Quis Sh Ne	: Bonnie McLean	inted	Coan A Co	mull	an



Date: 8-18-02 Time: 30 Job Number: 1850574.260120
Client: USACE
Site-Specific Location: Northeast Cape, St. Lawerence Island
Safety Topics Presented
Protective Clothing/ Arv releases, Equipment: Hurs that's Runger, sign to as protection
Chemical Hazards:
Physical Hazards: Dec Reg operation ATV fox open flown.
Physical Hazards: Dec O Reg operation ATV fox open from Special Equipment: by while role Other (IIPP): Antic tent/store, healen
Other (IIPP): Antic tent/store heaten
Emergency Procedure: 911, Medevac LifeGaurd Alaska Flight 1-800-478-5433
Hospital: Norton Sound Phone: Ambulance Phone: Regional, Nome AK
Hospital Address Map Located in work Plan Fig. 5-1 Route:
ATTENDEES
NAME PRINTED RIGHT NAME PRINTED ROLLING A D COMMENT AND AND AND AND AND AND AND AND AND AND
-Poxlas Grist Dingle
Gregg Turver luy Tim
Meeting Conducted By: Bonnie McLean Name Printed Signature
Project Safety Officer: Bonnie McLean Project Manager: Bonnie McLean Signature



Date: 8/19/02 Time: /005 Job Number: 1850574.260120
Client: USACE
Site-Specific Location: Northeast Cape, St. Lawerence Island
Safety Topics Presented
Protective Clothing/ Equipment:
Chemical Hazards: Hexanc
Physical Hazards: Slip, trip, Fall, Flying Debris
Special Equipment:
Other (IIPP):
Emergency Procedure: 911, Medevac LifeGaurd Alaska Flight 1-800-478-5433
Hospital: Norton Sound Phone: Ambulance Phone: Regional, Nome AK
Hospital Address Map Located in work Plan Fig. 5-1 Route:
ATTENDEES
Johanna L. Dreher Change Signature
Rach Down Convell
Grego Towner My Times
Meeting Conducted By: Bennie Metean Name Printed Signature
Project Safety Officer: Bonnie McLean Project Manager: Bonnie McLean Signature



Blow
Plou —



Date: 8-21-02 Time: 1310 Job Number: 1850574.260120
Client: USACE
Site-Specific Location: Northeast Cape, St. Lawerence Island
Safety Topics Presented
Protective Clothing/ Equipment:
Chemical Hazards:
Physical Hazards: Wind, Slip, Trip, Fall Special Equipment: Srill Rig, Pis
Special Equipment: $\sqrt{\frac{1}{k_{ij}}}$, $\frac{1}{k_{ij}}$
Other (IIPP):
Emergency Procedure: 911, Medevac LifeGaurd Alaska Flight 1-800-478-5433
Hospital: Norton Sound Phone: Ambulance Phone: Regional, Nome AK
Hospital Address Map Located in work Plan Fig. 5-1 Route:
ATTENDEES
NAME PRINTED SIGNATURE Johanna Docher Villian A OGNALI William
Covery Tures migg Junear
Meeting Conducted By: Bonnie McLean Name Printed Signature
Project Safety Officer: Bonnie McLean Project Manager: Bonnie McLean Signature





PERSONAL ACKNOWLEDGEMENT FORM

Project Number: 1850574.260120

Project: NEC, St Lawrence Is., 2002

Client: USACOE

Project Manager: Bonnie McLean

As a component of the Site Safety and Health Plan (SHSP) designed to provide personnel safety during this project, you are required to read and understand the SHSP. When you have fulfilled this requirement, please sign and date this personal acknowledgement.

requirement, please sign and date uns personal acknowledgement.			
Name (Printed)	Signature	Date	
RAIPH L. NEWLAND Gregg Turner	Rophflela	07-26-02.	
Guega Turner	hay Times	07-26-02.	
.,			
·			

The CONTRACTOR and any CONTRACTOR representative arriving on St. Lawrence Island will abide by the land-use agreement in-place between the land holders and the USACOE. Any actions not in accordance with this agreement by a CONTRACTORs representative shall require immediate removal from St. Lawrence Island at the CONTRACTORs expense. All expenses incurred by MWH Americas, Inc. (MWH) while awaiting personnel replacement shall be reimbursed by the CONTRACTOR. The following are the major points of the Land-Use Agreement which will be enforced:

- No alcohol in any form will be transported, consumed, or offered without compensation, for sale or trade on St. Lawrence Island.
- No non-prescription drugs will be transported, consumed, or offered without compensation, for sale or trade on St. Lawrence Island.
- No prescription drugs will be offered for sale, trade or provided to any others on St. Lawrence Island.
- No fire arms will be transported, carried, used or discharged by CONTRACTORs personnel on St. Lawrence Island.
- No one will collect or purchase any raw material covered under the U.S. Marine Protection Act (i.e. bones, ivory, baleen).

her Times	7-29-02
Signature	Date

Description IN.
Representing

Print Name

The CONTRACTOR and any CONTRACTOR representative arriving on St. Lawrence Island will abide by the land-use agreement in-place between the land holders and the USACOE. Any actions not in accordance with this agreement by a CONTRACTORs representative shall require immediate removal from St. Lawrence Island at the CONTRACTORs expense. All expenses incurred by MWH Americas, Inc. (MWH) while awaiting personnel replacement shall be reimbursed by the CONTRACTOR. The following are the major points of the Land-Use Agreement which will be enforced:

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- No prescription drugs will be offered for sale, trade or provided to any others on St. Lawrence Island.
- No fire arms will be transported, carried, used or discharged by CONTRACTORs personnel on St. Lawrence Island.
- No one will collect or purchase any raw material covered under the U.S. Marine Protection Act (i.e. bones, ivory, baleen).

No one will collect any artifact while on St. Lawrence Island.

Signature

Print Name

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- No prescription drugs will be offered for sale, trade or provided to any others on St. Lawrence Island.
- No fire arms will be transported, carried, used or discharged by CONTRACTORs personnel on St. Lawrence Island.
- No one will collect or purchase any raw material covered under the U.S. Marine Protection Act (i.e. bones, ivory, baleen).

Act (i.e. bones, ivory, baleen).		
No one will collect any artifact while on St. Lawre	ence Island.	
William A. Slamel	7-26-02	
Signature	Date	
William A. O'Connell		
Print Name		
MUH		
Representing		

The CONTRACTOR and any CONTRACTOR representative arriving on St. Lawrence Island will abide by the land-use agreement in-place between the land holders and the USACOE. Any actions not in accordance with this agreement by a CONTRACTORs representative shall require immediate removal from St. Lawrence Island at the CONTRACTORs expense. All expenses incurred by MWH Americas, Inc. (MWH) while awaiting personnel replacement shall be reimbursed by the CONTRACTOR. The following are the major points of the Land-Use Agreement which will be enforced:

- No alcohol in any form will be transported, consumed, or offered without compensation, for sale or trade on St. Lawrence Island.
- No non-prescription drugs will be transported, consumed, or offered without compensation, for sale or trade on St. Lawrence Island.
- No prescription drugs will be offered for sale, trade or provided to any others on St. Lawrence Island.
- No fire arms will be transported, carried, used or discharged by CONTRACTORs personnel on St. Lawrence Island.
- No one will collect or purchase any raw material covered under the U.S. Marine Protection Act (i.e. bones, ivory, baleen).
- No one will collect any artifact while on St. Lawrence Island.

Johanna I. Diche	7/26/02
Signature	Date
Johanna L. Dreher	
Print Name	
MWH	
Representing	

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 No one will collect any artifact while on S 	t. Lawrence Island.	
Sandlas Crust	7/26/02	
Signature	Date	
Jang Juist Print Name		•
MWH		
Representing	•	

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No one will collect any artifact while on St. Lawre	ence Island. 7-73-02
Signature	Date
Bourse make	
Print Name	
MWH	

Representing



PERSONAL ACKNOWLEDGEMENT FORM

Project Number: 1850574.260120

Project: NEC, St Lawrence Is., 2002

Client: USACOE

Project Manager: Bonnie McLean

As a component of the Site Safety and Health Plan (SHSP) designed to provide personnel safety during this project, you are required to read and understand the SHSP. When you have fulfilled this requirement, please sign and date this personal acknowledgement.

Name (Printed)	Signature	Date
Johanna Dreher	Johanna J. Dehn	7-26-02
William A. O'Connell	William A. Samel	7-26-02
Bourencheon	Bonnishah	7-28-07
Longlas Dust	Szuglat	7-26-62



PERSONAL ACKNOWLEDGEMENT FORM

Project Number: 1850574.260120

Project: NEC, St Lawrence Is., 2002

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Name (Printed)	Signature	Date		
RAIPH L. NEWLAND Gregg Turner	Rophflela	07-26-02.		
Guega Turner	hay Times	07-26-02 7-2 8 -02		

MONTGOMERY WATSON Anchorage, Alaska	SOIL B	ORING LOG	PROJECT NO.:(858574, 26012	BORING NO.:
PROJECT Phase III RI	SITE	Northeast Cape, St. Lawernce Is CLIENT	UCACE Aleeke	GEOLOGIST McLean
DATE 8/1/02 WEATHE	R clay, ro	AK STATE PLANE COORDINATES		192 ELEVATION MSL
DRILLING Hellow stew	BORING 81/2	HAMMER 30/360	RIG TYPE CME 45	DRILLER/ COMPANY Discovery
# SAMPLES V SAMPLE TYPE	arab san	MPLER 21/2 55 TOTAL DEPTH	(FT) 22-5 DEPTH TO SWL (FT)	20,0 TOP OF HOLE \$2,29
GRAIN SIZE (B	LSAMPLE		WELL	COMPLETED? VES NO
DEPTH (FEET) BLOWS (6 IN.) % GRAVEL % SAND % FINES MAX SIZE IN9 SOIL CLASS GRAPHIC LOG	NTERVAL	SOIL DESCRIPTION (ASTM 2488)	^	YES NO
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0 3 SP	1430 F		sele PID	
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	DR		PINING	1109
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3/01		Lavours & sono &	NOCK	19.2 80-1
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5 = 6 GM	<u> </u>	No odor, Nostaming	A 2 1 TA	LOCATION SKETCH
79 1080 10 ,25	0	indivite bilt om brok		LOCATION SKETCH
6 -8	(3) 8	- 1	جمالية	Pip 1.2
7-3/0		10 oar , NO ;	SUNILLIATE	***************************************
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9 - 15		sampler No ober	***************************************	***************************************
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10 - 8		88-1 (10-12.5)		PID 180.0
11 = 1/5	(3)	No reteral,		
		10 caec	*	
12 - 7	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	Dry		
13 3	1515 1 8	8-1 (12.5-15.0)		
		NO NOTIEVAL, DO	shed rock	the front
14 -33			<u>`</u>	***************************************
15 31		Dry, up adar, 1	so Stouring	
377	1530 9	98-1 (15-17,5), gre	y burn str	Tales rock
16 - 4	4	V		PID SOF
36 AM		Dry Crushed rock	- with lines.	
1/ = 31	<u> </u>	for odor Nos	TAINING	LAB 02 NE 97 5801
18 = 29 GM	1600 8	8-1 (19-70)		PID 48.7
-27	(5)	S. D. W. J. S. A.	A. C. Warden S. P. San	101/
19 = 27		***************************************	LAB 021	1889 58002
20 -50	1605 1	38-1 (20 - ZO.	5) 501	71
		No recovery	- 20	
21 -		7		

MONTO	OMI ISON	E RY Anch	orage	, Alaska			SC)/L	BORING LOG	PROJECT NO.:		BORING NO.: SHEET
PROJECT			P	hase	III RI				SITE Northeast Cape, St. Lawernce Is CLIENT		G	EOLOGISTMcLean
DATE <u>8/</u>)2		_	WEA	THEF	a <u>U</u>	De	AK STATE PLANE COORDINATES	(Northing)	(Easting)	ELEVATION DATUM
DRILLING METHOD	1	لح	10	w;	Se	m	BOF SIZI	RING	,	RIG TYPE Cm		DRILLER/ COMPANY Discovery
# SAMPL					SAMPI TYPE	LE —			SAMPLER TOTAL TYPE/DIAMETER DEPTH		TH TO _ (FT)	TOP OF HOLE ELEVATION
ΈC	N.)	7	RAIN S	ZE	SS	8	SAMPLI	_	SOIL DESCRIPTION		WELL CO	OMPLETED?
DEPTH (FEET)	BLOWS (6 IN.)	% GRAVEL	% SAND	% FINES	SOIL CLASS	GRAPHIC LOG	TIME	INTERVAL	(ASTM 2488)		NORTH	723
20.		П	1								NOAM	
	20			1	EM.	<u> </u>	ļ.,	7	88-1 (20-22.5) . MA	sand mark	1804	
1	17.				ļ	ļ	1610		Saturdand			
2	27				 	 	6	$\left\{ \cdot \right\}$		Pro 18.6		Garpen-
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MONTGOMERY WATSON WELL CONST	I I O O I I O I I D O		ELL NO.: SHEET 1 OF 1
PROJECT Phase III RI SITE North	east Cape, St Lawernce Island	ENT USACE G	EOLOGISI McLean
DATE 8/ 14 /02 WEATHER Clay	ILOCATION	2.8914 98080.4499	PELEVATION MSL
DRILLING Hollow -Stem Auger SIZE 8 %	" RIG CME 4	2.8914 98080.4499 (Northing) (Easting) DRI COI	MPANY Discovery (MSL/Other)
SURVEYED GROUND FLEVATIONS SURFACE	42.29 TOP OF PROTECTIVE	47,29 TOI	SING 81.89
			WELL SAMPLED? X YES NO
STEEL FLUSH-MOUNTED			QUANTITY MATERIALS USED: Bentonitgibs)
PROTECTIVE CASING (FT - BGL)SECURED WITH 2-1/2" BOLTS			Sand(lbs) 380
_	3. ID locking expansion cap		Grout(lbs)
GROUND SURFACE T	A PAD TYPE	Concrete	Screen(ft) 10 '
* <i>* *********************************</i>	DIMENSIC	ons <u>2 f1 2</u>	Bottom Cap(ea)
	2" PVC well casing		Top Cap(ea)
	Silica Sand (IN) OD PROTECTIV		Flush Mount Ves
	CASING		Protective Casing (ft)
	GROUT TYPE		Lock 0911
7 . (IN) OD SCHEDULEPVC	(IN) BOREHOL	F 8 4"	MISC.:
CASING WITH FLUSH THREADED JOINTS			
TOP OF SEAL (FT - BGL)		_	
	(FT) THICK SE	AL 2 000	
13 / TOP OF SAND/GRAVEL	SEAL TYPE Prise Ch	ipo	NOTES
PACK (FT - BGL)	(FT) ABO	OVE ED CASING 2	110120
TOP SLOTTED CASING (FT - BGL)	SLOTTE	ED CASING ———	,
Shortd (i.i. Bally	FILTER PACK	sloreADU Silcu	
	TYPE/GRADATION Z	OH-01, 20-40	
	6,010 (IN) SLOTS CUT	INTO 4 SS	
Hydrate grout every 3'			
) \	₩ATER LEVEL MEASU WATER LEVEL MEASU MEASUREMENTS IN D	PREMENTS (ALL	
	TOP OF PVC CASING)		
	AFTER CONSTRUCTION DATE/TIME 8/14/6	ON	
25' TOTAL DEPTH	AFTER DEVELOPMEN DATE/TIME _4/15/0	NT 21.78 (FT)	
CASING (FT - BGL)		17.79	
HOLE (ET - BGL)			
	•		

MONTGOMERY WATSON	SOIL BORING LOG	PROJECT -74 BORING NO.: SHEET
Anchorage, Alaska Phase III RI		PROJECT 74 BORING NO.: SHEET NO.: 1855 PROJECT 1 OF
PROJECT	SITE Northeast Cape, St. Lawernce Is _{CLIENT} U	
DATE 8/1/02 WEATHE		(Northing) (Easting)
DRILLING HSA	· · · · · · · · · · · · · · · · · · ·	RIG TYPE CME 45 DRILLER/ Discovery
# SAMPLES TYPE	GCAB SAMPLER 71/2" 55 TOTAL DEPTH (F	
GRAN SIZE (S) I H	SOIL DESCRIPTION (ASTM 2488)	WELL COMPLETED?
DEPTH (FEET) BLOWS (6 IN.) % GRAVEL % SAND % FINES MAX SIZE (IN) SOIL CLASS GRAPHIC LOG	TIME (ASTM 2488)	PID O
0 -	 	NORTH S
° - - - - - - - - -	160 till, crushed/Broken :	\$10 0 P
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		ebrown
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4 = 73 + 1 + 1 + 1		
3611111	U NO CHOW , NO STAIN	NQ
5 35		LOCATION SKETCH
6 	1040 39-2 5-1.5) Nochen	Ago PID - 29,8
7-37		
Ĭ ' <u></u>	NO OGOIZ, NO STAINING	
8 6 1	88-2 (7,5-10,0)	PID=30-9
9 30 1 1 5^	· · · · · · · · · · · · · · · · · · ·	8 02 N 8 99 8 B 00 3
	V NO ODOR NO STAININ	b
10 = 11	1 1 88-2 (10-17.5)	/
11-33	1700 de récovere	. 1000
12	NO 0001 10	PID 12, 8
12 20	<u> </u>	LAB 02 NE 88 28 00H
13 - 1	MD STUCKTED	
	14.5	
14 - 7		
15 = 1	<u> </u>	
16		
17 =	+	
18 -	D, 19,00	
19 =		
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21 =		

MONTGOMERY WATSON WELL	CONSTRUCTIO	ON LOG PROJECT NO.:	W	LL NO.:	SHEET 1 OF 1
PROJECT Phase III RI	Northeast Cape, St	Lawernce Island CLIENT USACE		EOLOGIST McL	
DATE 8/ 14/02 WEATHER CLA		COORDINATES 96455.0726	98257. 481	A DATUM	
DRILLING METHOD Hollow -Stem Auger SIZE	4	RIG TYPE CHE 45 (Northing)	(Easting) DRIIL CON	LER/ PANY Discover	(MSL/Other)
SURVEYED ELEVATIONS	GROUND F1.19 SURFACE F1.19	TOP OF PROTECTIVE 71.14		OF PVC	2.88
STEEL FLUSH-MODER PROTECTIVE CASE BGL) SECURED WITH BOLTS GROUND SURFACE (IN) OD SCHEDULE CASING WITH FLUSH-THREADED JOINTS TOP OF SEAL (FT - BGL) TOP OF SAND/GRAVEL PACK (FT - BGL) TOP SLOTTED CASING (FT - BGL) Hydrate grout every 3'	DINTED ING (FT - TH 2-1/2"	TOP OF PROTECTIVE CASING 4" ID locking expansion cap PAD TYPE CONCYC DIMENSIONS 2.41 — 2" PVC well casing — Silica Sand 6" — (IN) OD PROTECTIVE — CASING GROUT TYPE — (IN) BOREHOLE (FT) THICK SEAL — (FT) ABOVE — SLOTTED CASING — (FT) ABOVE — SLOTTED CASING — (FT) ABOVE — SLOTTED CASING — (IN) SLOTS CUT INTO — (IN) OD TYPE 304 SS WATER LEVEL MEASUREMENTS (AMEASUREMENTS IN DEPTH, FT FRITOP OF PVC CASING) AFTER CONSTRUCTION 2.5	SILICE 40 (FT) (FT)	WELL SAMPLE QUANTITY MATE Bentonit(lbs) Sand(lbs) Grout(lbs) Screen(tt) Blank Casing(tt) Bottom Cap(ea) Top Cap(ea) Flush Mount Protective Casing (ft) Lock MISC.:	D? S NO
CASING (FT - BGL) — 18,0 TOTAL DEPTH HOLE (FT - BGL)		Y	•		

MONTO	SOMI SON	ERY Ancho	orage,	Alaska			SC)/L	BORING LOG PROJECTS BORING NO.: SHEET NO.: 185 200 1 1 OF
PROJECT	_		Ph	ase I	II RI			;	Northeast Cape, St. Lawernce Is _{CLIENT} USACE - Alaska GEOLOGIST GEOLOGIST
DATE 8/					WEA ¹				Winds 2 30 Kts. AK STATE PLANE 9/458.3545 98169.9401 ELEVATION MSL (Northing) (Easting) DATUM
DRILLING METHOD	; <u> </u>	611.	<u>. W</u>	5/	m 1	Augi	BOF SIZE	ING	HAMMER 30/360 RIG TYPE CME 5 DRILLERY COMPANY Discovery
# SAMPL		2	<u></u>	S	AMPL YPE	E (Svalo)	SAMPLER TYPE/DIAMETER 2 55 TOTAL 20 DEPTH TO 15.5 TOP OF HOLE 77.75
₩.E.E.	(9 IN.)	\Box	AIN SIZ	£	ASS	C LOG	LSAMPLE		SOIL DESCRIPTION WELL COMPLETED?
DEPTH (FEET)	BLOWS (6 IN.)	% GRAVEL	% SAND	% FINES MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	TIME	INTERVAL	(ASTM 2488)
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	<u> </u>					ļ			auguler quarel 5-15 inches
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<u> </u>	ļ.,						1263	, X	112 Recover - ROCK
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(3)2	12	-				 	122	14	No fective Rock PID = 44.8 Continues
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14	指	┼┼			5P	ļ	1110	X	- 8-17-02 Brotten Drue hip on Drill-16g
(4)2-	텦				ļ	†			
	31.4 11.6	†				ļ			Egyen Sendy - Stons Dvilling to sumed 8-17-02
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(5)7-	= <u> 2</u> 2 21	+			SP]	ļ	$\left\{ \cdot \right\} \cdot$	Syry Sandy Slight oday LAB ID WAR 875BC6 ANGULUL 16CKS A 1-2 CONESSUBJOUGED ODNESSUBJOUGH
18	2			1	Ā	ļ		X.	Syry Sandy Slight oday LAB ID WINE 875BC6 Angular Vecks 4 1-2 CONESSUBJOUGED OQNESSUBJOUGDA Water on Syru not aciden M Samples
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20	<u>-</u>	╁╌┼				 		ע	mitted.
21	<u> </u>					ļ		-	Combined (A) &(5) for LAB Sample
	<u> -</u>	<u> </u>	<u>.</u>		ļ <u>.</u>		<u> </u>		Computed (T) 42 for the sample

WELL CONSTRUCTION LOG PROJECT NO.: 1850574,260120	ELL NO.: SHEET 1 OF 1
PROJECT Phase III RI SITE Northeast Cape, St., Lawernce Island CLIENT USACE	GEOLOGIST MeLean
DATE 8/ 17/02 INFATHER COM AS COORDINATES 96454 3545 95/69 94	OI DATUM MSL
DRILLING METHOD Hollow -Stem Auger SIZE BORING 8 /4 RIG (Northing) (Easting) OR TYPE CME 45	MPAN Discovery (MSL/Other)
SURVEYED GROUND TOP OF PROTECTIVE TO	SING 77.35
	WELL SAMPLED? YES NO
STEEL FLUSH-MOUNTED	QUANTITY MATERIALS USED: Bentonitgibs) 150
PROTECTIVE CASING (FT - BGL)SECURED WITH 2-1/2" BOLTS	Sand(lbs) 330
4" ID locking expansion cap	Grout(lbs)
GROUND SURFACE TO CONC VCTC DIMENSIONS 2-122	Screen(ft) 10
Tanahaman Janahaman Dimensions 244*	Bottom Cap(ea)
2" PVC well casing Silica Sand	Top Cap(ea)
(IN) OD PROTECTIVE CASING	Flush Mount !
CASING	Casing (ft)
GROUT TYPE	
2 (IN) OD SCHEDULE PVC (IN) BOREHOLE 8 14	MISC.:
CASING WITH FLUSH THREADED JOINTS	
TOP OF SEAL (FT - BGL)	
(FI) THICK SEAL	
TOP OF SAND/GRAVEL PACK (FT - BGL) SEAL TYPE Fure Gold Med. Branch St.	NOTES
(FT) ABOVE SLOTTED CASING ———	
TOP SLOTTED CASING (FT - BGL)	
FILTER PACK Colovulo Silica TYPE/GRADATION SUP-40	
(IN) SLOTS CUT INTO (IN) OD TYPE 904 SS	
Hydrate grout every 3'	
₩ATER LEVEL MEASUREMENTS (ALL WEASUREMENTS IN DEPTH, FT FROM TOP OF PVC CASING)	
AFTER CONSTRUCTION 17.5 (ET)	
AFTER CONSTRUCTION 17.5 (FT) DATE/TIME \$/17/0 >	
AFTER DEVELOPMENT 15.12 (FT) DATE/TIME \$/15/02 10:50	
CASING (FT - BGL)	
20.5 TOTAL DEPTH HOLE (FT - BGL)	

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MONTG WAT	OME SON	RY Ancho	rage,	Alask	ka			SC	IL	BORING LOG	D.: BORING NO.: SHEET
PROJEC										SITE Northeast Cape, St. Lawernce Is LIENT USACE - Alaska	GEOLOGIST MoLean OCOM
I I,					-	WEA	THE			AK STATE PLANE 96216.7210 (Northing)	1922-1088 ELEVATION MSL (Easting) DATUM
DRILLIN METHO	NG DD _	4	<u> 5 P</u>	}				BC Siz	PINO ZE _	S/4" HAMMER 30/300 RIG TYPE CHE	DAILLER/ Discovery
# SAM	_	-	GRAIN	0.75		YPE		SAMPI		SAMPLER TYPE/DIAMETER 2'55 TOTAL DEPTH (FT) 16,5 SWI	TH TO 11.0 TOP OF HOLE (8.37
DEPTH (FEET)	BLOWS (6 IN.)		П		Ê	LASS	907 O		VTERVAL.	SOIL DESCRIPTION	WELL COMPLETED? YES NO
<u>a</u> r	BLOW	% GRAVEL	% SAND	% FINE	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	TIME	INTERNATIONAL PROPERTY IN THE	(ASTM 2488)	NORTH DB
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22-									1	Buin sails with could let	
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26	16	ļ					ļ			Very Bense	LOCATION SKETCH
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29 ⁻	<u> </u>	<u></u>				لاک	ļ	70kg	Λ	Greenish grey fount ador Fir	e Sand
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(6)	34.9	<u> </u>		•••••	<u> </u>	śŴ	<u> </u>	2 <i>0</i> 35		DAVH ANT SONCE SAND WELT -	S. C.S. C.
12	<u> </u>	ļ		ļ	ļ	ļ	ļ	ļ		huter @ 11 f2	
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\$4-	<u> </u>	<u> </u>		ļ	[ļ	ļ	ļ.,		
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\$ 5-	<u></u>	<u> </u>		ļ		ļ				Bottom of USI DINESS.	56009 1,0-30 5000 11.0-30
\$6-]	<u> </u>				ļ	 			FORM OF LOCAL SECTION	11. U - 12 · C ·
\$7-	<u></u>	-		ļ	ļ	ļ	ļ		ļ	D- 16	
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7,42-	1	<u> </u>					<u> </u>	<u> </u>	<u>† </u>		
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MONTGOMERY WATSON WELL CONSTRUCTION LOG PROJECT NO.: WELL NO.: SHEET 1 OF 1
PROJECT Phase III RI SITE Northeast Cape, St., Lawernce Island CLIENT USACE GEOLOGIST McLean
DATE 8/ 4/02 WEATHER PAIL CLU COORDINATES 96331. B20 98365.8078 ELEVATION MSL COORDINATES 96331. B20 98365.8078 DATUM MSL COORDINATES 96331. B20 98365.8078 DATUM MSL COORDINATES 96331. B20 98365.8078 DATUM MSL COORDINATES 96331. B20 98365.8078 DATUM MSL COORDINATES 96331. B20 98365.8078 DATUM DISCOVERY (MSL/Other) SURVEYED FLEVATIONS GROUND SURFACE 64.63 CASING CASING CASING COORDINATES 96331. B20 98365.8078 DATUM MSL COORDINATES 96331. B20 98365.8078 DATUM COORDINATES 96365.8078 DATUM

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MONTE		RY Anchora	ge, Ala	aska			SC	IL	BORING LOG PROJECTIVE BORING NO.: SHEET 1 OF
PROJECT	_		Phas	se I	II RI				SITE Northeast Cape, St. Lawernce Is USACE - Alaska GEOLOGIST GEOLOGIST
DATE 8/	/02	2		_ ,	WEA ^T	THEF	<u> </u>) 	CIDS AK STATE PLANE 96331. 1320 98365. 8078 ELEVATION MSL (COORDINATES 96331. 1320 (Easting)
DRILLING	i 1	rl S	A				BOF SIZE	ING	
# SAMPL	.ES	<u>る</u>		S	AMPL YPE	E (yub		SAMPLER TYPE/DIAMETER 2 55 TOTAL DEPTH (FT) DEPTH TO SWL (FT) TOP OF HOLE (8,6 2)
F E	(6 IN.)	_	SIZE	(IN)	ASS	5106	SAMPLE		SOIL DESCRIPTION WELL COMPLETED? YES NO
DEPTH (FEET)	BLOWS (6 IN.)	% GRAVEL	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	TIME	INTERVAL	(ASTM 2488)
0-			Ť	•	SP				Fill - Richs 26" 10"
1-]		ļ						eyant x Phy
			<u> </u>	ļ					
2 -			ļ						
3-	4		·		SΡ		1300	1	- Brown March Slight odor I)
1)4	8		ļ			ļ			Some Soul 2000 File GVAT
5	7		ļ	ļ			***************************************	V	PID: 234
	}		<u></u>	 	ļ			ļ	LOCATION SKETCH
6			ļ			ļ			
7	14			ļ	PT		1315	7	Duft From Aution Soil ? Josephic Meters 1- Peat
2 8	<u>6</u>			ļ	ļ	ļ	 		some Good Clo? Slight aday PID= 748
	ij			ļ				V	Peat
	9		. 		PT	ļ	1320	4	Sords aven with strong alor + vocas Rogards al
2)10	Ĭ			ļ		ļ	*************		+011 and J 10-11 - Lys 130 = 784
11	12		 		ςM	ļ	1330	N V	grey Sade Soil, Slight ador
15 N2	10 10			ļ		ļ			grey Sandy Soil, Slight ador Kuths a .5-1- No anganiz Matter Sand a Toos, PID= 440
	Ÿ		<u> </u>	<u> </u>	∇	<u> </u>			Wet at 13 by
13	15			ļ	<u>=</u>		1340	Įλ	Wet Sinds strong sta
514-	19				<u></u>				Wet Sinds Strong edal Roctic 4 1= 7 Angular to subangular Gves incolor Sand 4 787. PID= 424 DVL Sands at 15 strong odar
15	15		+	ļ		ļ		8	DVI, Sands at 15 stong adar
16		-	<u> </u>	ļ					
'`						ļ		1	AUGU/ Petusal Romand HoLe
17			.	ļ	ļ			<u>Y</u>	
18			-	-	ļ				02NE88SBCT=±3 /320 9-110 02NE88SBO8=+4 /330 11,-130
19			 			ļ	••••••		
:			<u> </u>	ļ		ļ		\	
20		[-			ļ			
21									

MONTGOMERY WATSON WELL CONS	TRUCTION LOG PROJECT NO.: 1850574.260120	WELL NO.: SHEET 1 OF 1
PROJECT Phase III RI SITE No	theast Cape, St Lawernce Island CLIENT USACE	GEOLOGIST MCLEAN
DATE 8/17/02 WEATHER Clouds, R	LOCATION GOOD AND SASSON AND SASSON OF THE PROPERTY OF THE PRO	DAS DATUM MSL
DRILLING METHOD Hollow -Stem Auger SIZE	1/4 RIG HSA (Northing) (Easting) D	ORILLER/ Discovery (MSL/Other)
SURVEYED GROUND FLEVATIONS SURFAC	TOP OF PROTECTIVE (A D D	CASING 67.87
		WELL SAMPLED? YES NO
STEEL FLUSH-MOUNTED		QUANTITY MATERIALS USED: Bentonite(bs) 0 6
PROTECTIVE CASING (FT - BGL)SECURED WITH 2-1/2" BOLTS		Bentonitalibs) 100 Sand(lbs) 300
\	4" ID locking expansion cap	Grout(lbs)
GROUND SURFACE T	PAD TYPE CONCVETE	Screen(ft)
GHOOMS SOM NOT	DIMENSIONS 2 12	Blank Casing(t) 6 Bottom Cap(ea)
	2" PVC well casing	Top Cap(ea)
	Silica Sand 6'	Flush Mount Ges
	(IN) OD PROTECTIVE CASING	Protective Casing (ft)
	GROUT TYPE	Lock
=	(N) BODEHOLE 8 14	MISC.:
(IN) OD SCHEDULEPVC CASING WITH FLUSH	(IN) BOREHOLE 3	
THREADED JOINTS		
TOP OF SEAL (FT - BGL)	(FT) THICK SEAL 3	
u′	SEAL TYPE Fuve gold Med,	
TOP OF SAND/GRAVEL PACK (FT - BGL)	Bentonite chips	NOTES
6 TOP SLOTTED	(FT) ABOVE SLOTTED CASING	
CASING (FT - BGL)	FILTER PACK Colorad Silica	
	FILTER PACK TYPE/GRADATION COLONIA SILVA 10-40	
	O,O10 (IN) SLOTS CUT INTO (IN) OD TYPE 394 SS	
	(IN). OB TYPE 884 SS	
Hydrate grout every 3'		
	WATER LEVEL MEASUREMENTS (ALL MEASUREMENTS IN DEPTH, FT FROM TOP OF PVC CASING)	
	9-17-02	
	AFTER CONSTRUCTION (FT) DATE/TIME 10.5	
	AFTER DEVELOPMENT 12.32 (ET)	
TOTAL DEPTH CASING (FT - BGL)	AFTER DEVELOPMENT_12.32 (FT) DATE/TIME _8/18/02 15:45	
16.5 TOTAL DEPTH HOLE (FT - BGL)		
W		

MONTGOMERY WATSON Anchorage, Alaska	SOIL BORING LOG	PROJECT 57 BORING NO.: SHEET NO.: 185 CO MWSS-6 1 OF
PROJECT Phase III RI	SITE Northeast Cape, St. Lawernce Is _{CLIENT}	USACE - Alaska GEOLOGIST MeLean
DATE 8/8/02 WEATHE	er Partly Cldy AK STATE PLANE COORDINATES	96140.1494 98271.9042 ELEVATION MSL
DRILLING HS4		(Northing) (Easting) RIG TYPE CME 45 DRILLER/ COMPANY Discovery
# SAMPLESTITL	Grab SAMPLER 2 55 TOTAL DEPTH	(FT) 15.5 DEPTH TO 10,89 TOP OF HOLE (9.13
GRAIN SIZE (6) GRAIN SIZE (8) GRAIN SIZE (9) GRAIN SIZE (1) GRAIN SIZE (1) GRAIN SIZE (2) GRAIN SIZE (3) GRAIN SIZE (4) GRAIN SIZE (5) GRAIN SIZE (6) GRAIN SIZE (7) GRAIN SIZE (8) GRAIN SIZE (9) GRAIN SIZE (1) GRAIN SIZE (1) GRAIN SIZE (2) GRAIN SIZE (3) GRAIN SIZE (4) GRAIN SIZE (5) GRAIN SIZE (6) GRAIN SIZE (6) GRAIN SIZE (7) GRAIN SIZE (8) GRAIN SIZE (9) GRAIN SIZE (9) GRAIN SIZE (1) GRAIN SIZE (2) GRAIN SIZE (3) GRAIN SIZE (4) GRAIN SIZE (5) GRAIN SIZE (6) GRAIN SIZE (7) GRAIN SIZE (8) GRAIN SIZE (9) GRAIN SIZE (1) GRAIN SIZE (2) GRAIN SIZE (3) GRAIN SIZE (4) GRAIN SIZE (5) GRAIN SIZE (6) GRAIN SIZE (6) GRAIN SIZE (7) GRAIN SIZE (8) GRAIN SIZE (8) GRAIN SIZE (9) GRAIN SIZE (1) GRAIN SIZE (1) GRAIN SIZE (2) GRAIN SIZE (3) GRAIN SIZE (4) GRAIN SIZE (5) GRAIN SIZE (6) GRAIN SIZE (6) GRAIN SIZE (7) GRAIN SIZE (7) GRAIN SIZE (8) GRAIN SIZE (8) GRAIN SIZE (8) GRAIN SIZE (9) GRAIN SIZE (9) GRAIN SIZE (1) GRAIN SIZE (1) GRAIN SIZE (1) GRAIN SIZE (1) GRAIN SIZE (2) GRAIN SIZE (3) GRAIN SIZE (4) GRAIN SIZE (5) GRAIN SIZE (6) GRAIN SIZE (6) GRAIN SIZE (7) GRAIN SIZE (7) GRAIN SIZE (8) GRAIN SIZE (8) GRAIN SIZE (9) GRAIN SIZE (1) GRAIN SIZE (1) GRAIN SIZE (1) GRAIN SIZE (1) GRAIN SIZE (2) GRAIN SIZE (3) GRAIN SIZE (4) GRAIN SIZE (5) GRAIN SIZE (6) GRAIN SIZE (6) GRAIN SIZE (7) GRAIN SIZE (7) GRAIN SIZE (7) GRAIN SIZE (7) GRAIN SIZE (8) SOIL DESCRIPTION	WELL COMPLETED?	
DEPTH (FEET) BLOWS (6 IN.) % GRAVEL % SAND % FINES MAX SIZE (119) SOIL CLASS GRAPHIC LOG	SOIL DESCRIPTION (ASTM 2488)	NORTH D
0 <u> </u>	Fill-Rocky angular 3°	-5-
1-		
2 -		× 88-11
		× ×
1 (1) ³ = 41	1130 No odav	PID 125 8X-1 MW
4 = 5	arraish Grows 5.14 UNG FL SON	Elec. 88=3
5 - 16	140M-Ges-tech Sanso 4-8	P13 90.8 LOCATION SKETCH
0 37 1 1 m	1 N LAB#02NE 885B41	
6 7 5 5 5 5	No odar Gregish Brown	2
3 Sp	11/15 1 - Strong odor Sands of gravels uncons	Pin 185 OZNERKSBOII
8 = 3	941.4 \$ 3/2/215 010013	51140 4.0
M2	1158 M Moist, Dense SIH & Fine	Canal Pro 52.5
1(4) <u>3</u> 9111111	avey No oda	3-1-1-2
	1155 1 Sand + grantly grant ish	GOWN MIST, UNCONCOLIDATED DID III
(5) ₁₂ ==	3378 03 03 04	Odubbolz
13 7	H, 0 = 10,5	5 8-18-02 E14 30
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16]	1 15.3	
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18 =		
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20 =		
21 -		

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MONTGOMERY WATSON SOIL	BORING LOG PROJECT OF NO.: (8)	BORING NO.: SHEET
PROJECT Phase III RI SIT	Nambarat Cana St. Laurenas I.	GEOLOGIST MeLean
DATE 8/18/02 WEATHER Party	Cloudy AK STATE PLANE 96033.1581 9	8271.2457 ELEVATION MSL
METHOD 17 3/4 SIZE	19 4 HAMMER 30/360 RIG TYPE CME	DRILLER/ Discovery
# SAMPLES TYPE CIVAD	SAMPLER TYPE/DIAMETER 2 55 TOTAL DEPTH (FT) 1915 DEP	TH TO 14, 5 TOP OF HOLE 72, 8
TTH (9 IN SAMPLE SS SAMPLE	SOIL DESCRIPTION	WELL COMPLETED?
DEPTH (FEET) BLOWS (6 IN.) % GRAVEL % SAND % FINES MAX SIZE (m) SOIL CLASS GRAPHIC LOG MM MM MM MM MM MM MM MM MM MM MM MM MM	(ASTM 2488)	NORTH
	Fill - Crushel Pock + Sand	Site 16
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+	
<u> </u>		
2 -	V	MU NU NU
3=19 SP 1320 N	Crushed Rock + Sand	107 PE 6
4 -	Crushed Rock + Sand No odor, Dry PID= 600	Concrete Pad
	Brown Sand No alor	LOCATION SKETCH
6 7 9	PID= 332	
7=13	ador crushed fort & Sand, Dri)1m-9VCy
8 -10	•	695 02NESYSBOLD
9 = 9 SP 13 4 2 1	Greg - Crushed Rock & Sand	
10 <u> </u>	<i>β</i> Ι 5=	480
11 = a SP 1350 A	Grey Sond + Grack	
(5) - 16	ode PID=	
<u> </u>	OANE 883	0017
13 =	Mojst Gury Sand + Silt Odov PID=	v27
104 16 1 1 1 7 11	710	-7 [(
15 _ 15		
16 =		
17 =		
18 =		
19 =	4thon 7 190	
20 =		
21 =		

MONTGOMERY WATSON WELL CONST	RUCTION LOG PI	ROJECT NO.: W	ELL NO.: SHEET
	<u>18</u>	50574.260120	SEOLOGIST MoLean
PHOJEC TIMES IN ALL SITE	COCATION		GEOLOGIST MeLean
DATE 8/ 18/102 WEATHER PRITTS COL	COORDINATES 96	(Northing) (Easting) (DR	(MSL/Other)
DRILLING METHOD Hollow -Stem Auger SIZE SURVEYED GROUND	TOP OF PROTECT		MPANY Discovery
FLEVATIONS SURFACE	69.13 CASING		SING 68.83
			WELL SAMPLED? YES NO
STEEL FLUSH-MOUNTED			QUANTITY MATERIALS USED: Bentonitgibs (06)
PROTECTIVE CASING (FT - BGL)SECURED WITH 2-1/2" BOLTS		•	Sand(libs) 360
	4" ID locking expansion cap	3	Grout(lbs)
,6 - 1.0 \	12"/	PE Concrete	Screen(ft)
GROUND SURFACE	A PARTICIONAL DIMENS	SIONS 2++2	Blank Casingft 5.0
	2" PVC well casi	ing	Bottom Cap(ea)
	Silica Sand 6"	-	Flush Mount
	(IN) OD PROTECT	TIVE	Protective / Casing (ft)
		05.20	Lock
	GROUT TYPE		
)_ (IN) OD SCHEDULEPVC	(IN) BOREHO	OLE	MISC.:
CASING WITH FLUSH THREADED JOINTS	→		
D.5 TOP OF SEAL (FT - BGL)			
	(FT) THICK S		
3,5 TOP OF SAND/GRAVEL	SEAL TYPE PUVC	chips	
PACK (FT - BGL)		ABOVE	NOTES
5 TOP SLOTTED		TED CASING	
CASING (FT - BGL)		Colored Silve	
	FILTER PACK TYPE/GRADATION	Coloredo Silica Sand 10-40	
	0,010 (IN) SLOTS C		
	(IN) OD TYPE	304 SS	
Hydrate grout every 3'			
	WATER LEVEL MEASUREMENTS IN TOP OF PVC CASING	SUREMENTS (ALL	
∦	TOP OF PVC CASING	G) 4 1/6	
<u> </u>	AFTER CONSTRUC	TION 10,85 (FT)	
1			
15 TOTAL DEPTH	AFTER DEVELOPM	IENT 10,40 (FT)	
CASING (FT - BGL)	DATE/TIME _35/191	12.50	
- 15,5 TOTAL DEPTH HOLE (FT - BGL)			
			
[]			
			<u> </u>

MONTGOMERY WATSON WELL CONSTRUCTION LOG PROJECT NO.: 1850574,260120	WELL NO.: SHEET 1 OF 1
PROJECT Phase III RI SITE Northeast Cape, St Lawernce Island CLIENT USACE	GEOLOGIST MeLenn
DATE 8/ \8/02 WEATHER Partly Clouds COORDINATES 96033.1581 9827	1.2457 ELEVATION MSL
DRILLING METHOD Hollow -Stem Auger SIZE GROUND GROUND TOP OF PROTECTIVE Z	DRILLER/ Discovery (MSL/Other) TOP OF PVC
SURVEYED GROUND 72.43 TOP OF PROTECTIVE 72.43 ELEVATIONS SURFACE 72.43 CASING	CASING 72,33 WELL SAMPLED? ☑ □
t t	YES NO QUANTITY MATERIALS USED:
STEEL FLUSH-MOUNTED PROTECTIVE CASING (FT - BGL)SECURED WITH 2-1/2"	Bentonite(lbs) 160
BOLTS 4" ID locking expansion cap	Sand(lbs)
GROWIND SLIBEACE TO WE VE K	Screer(ft) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
GROUND SURFACE PAD TYPE DIMENSIONS 2112	Blank Casingtt
2" PVC well casing	Top Cap(ea)
Silica Sand & (IN) OD PROTECTIVE	Flush Mount
CASING ———	Protective Casing (ft)
GROUT TYPE	Lock \
(IN) OD SCHEDULE PVC (IN) BOREHOLE	MISC.:
CASING WITH FLUSH THREADED JOINTS	
TOP OF SEAL (FT - BGL) (FT) THICK SEAL	
SEAL TYPE Purc gold Med Bentonite	
TOP OF SAND/GRAVEL PACK (FT - BGL) (FT) ABOVE	NOTES
TOP SLOTTED SLOTTED	
CASING (FT - BGL) FILTER PACK Colovado Silica	
TYPE/GRADATION Sund 10-40	
Ool6 (IN) SLOTS CUT INTO (IN) OD TYPE 304 6	
Hydrate grout every 3'	
₩ATER LEVEL MEASUREMENTS (ALL MEASUREMENTS IN DEPTH, FT FROM	
TOP OF PVC CASING) AFTER CONSTRUCTION ————(FT)	
DATE/TIME	
AFTER DEVELOPMENT 14.01 (FT)	
CASING (FT - BGL)	
HOLE (FT - BGL)	

MONTG WAT	50N		rage, /	Alaska			SC)/L	BORING LOG PROJECT NO.: 185	BORING NO.: SHEET
PROJECT	_		Ph		II RI				SITE Northeast Cape, St. Lawerite ISCLIENT USACE - Alaska	GEOLOGIST Melcan
DATE 8/	18/0	2		_	WEAT	HEF	P	2/14	AK STATE PLANE 96083, 1849 (Northing)	98185.9420 ELEVATION MSL (Easting) DATUM
DRILLING METHOD		HS	SA				BOF SIZE	ING	HAMMER 30/368 RIG TYPE CME	DRILLER/ COMPANY Discovery
# SAMPL	ES			Т	AMPL YPE	.E _	SRA		SAMPLER TYPE/DIAMETER 2 HSA DEPTH (FT) 20,5 S	DEPTH TO 15.5 TOP OF HOLE 3.76 ELEVATION
EE.	(6 IN.)		AIN SIZ	Ę	ASS	C LOG	SAMPLE		SOIL DESCRIPTION	WELL COMPLETED?
DEPTH (FEET)	BLOWS (6 IN.)	% GRAVEL	% SAND	% FINES MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	TIME	INTERVAL	(ASTM 2488)	NORTH
0-					SP		1620			789-7 X89-7
:									FILL Crushed Rock	
<u>'</u>					ļ				Augu 14 5 -7	concrete Sen Blds
2						ļ				88-8
3]	-			ļ	ļ				
-4	1,7				Sρ	 	1640	M	Nooder Crushed Rock fill +Soun	
(4)	15				135		116-10		Noodu crushed Rock fill +Setul	
5	20					ļ	.			LOCATION SKETCH
() () () () () () () () () ()	22	-	-		50	 	1648	Ň	odar - Crushed Rock PFD=	
(2)	37					ļ		1.1	odar - Crushed Rock PFD=	
	311	 				ļ	ļ	V		
8	113				5ρ		1653	1		OCK + SANA, GV-G
_e (S)	14	-			 	 		++-	anconsolidated PI	b =
10	172					<u> </u>		V		, , , , , , , , , , , , , , , , , , ,
6	<u> </u>				5 <i>P</i>	<u> </u>	1760	1	adox, crushel rock + sand grey, un	CONSOLINATE!
(4)11-	<u> </u>]			ļ				OZNEXXSBOIS PID=	1248#
12	39	-			 5 <i>P</i>	-	1712	<u> </u>	Strong oday Crushed rock & sund	unconsolidated
(5),o-	<u> </u>					<u> </u>			2001	VIVIC DVI 30 HU 8 T 1
13					<u></u>		<u> </u>	11	PFD=	5
14	$\exists i \epsilon$				SΜ		1718	1	Grey Sand Wet Strong odar	
6/15-	PE	-			77	ļ	<u> </u>	+	DENESSOBOIL MS/MSD PID	=>10,an*
´	<u> </u>				Ì≚	<u> </u>	.	1	CANCOO INCIDENT	, , , , , , , , , , , , , , , , , , , ,
16	╡	ļ				ļ	ļ	1		
17	<u> </u>	+			-	+	 		* DiO Cal w/ momony	
18-	<u> </u>	ļ			1					
'	<u></u>				- 			++		
19]							\parallel		
20 -	-	ļ		[-		+		J.	60ton 5 70.	
	<u> </u>	†			1			<u> </u>	<u> </u>	
21	<u> </u>	<u> </u>			<u> </u>		<u> </u>	<u> </u>		

MONTGOMERY WATSON WELL COL	NSTRUCTION LOG	PROJECT NO.:	WELL NO.:	SHEET
ACCOSED NAME		1850574.260120	88-8	GNMC ONNC
PROJECT Phase III RI SITE	"/ I CLOCATION	CLIENT	GEOLOGIST MeL	
172/11/21	COORDINATE	(Northing) /F	(83.9420 DATUM	(MSL/Other)
DRILLING METHOD Hollow -Stem Auger SIZE SURVEYED GROU	TYPE TYPE		COMPANY Discovery	(
FLEVATIONS SURF	ACE 73, 76 CASING	73,76	CASING 7	3.46
1,0			WELL SAMPLE QUANTITY MATE	YES NO
STEEL FLUSH-MOUNTED PROTECTIVE CASING (F BGL)SECURED WITH 2-1,	Γ-		Bentonite(lbs)	160
BOLTS	4" ID locking expans	tion cap	Sand(lbs) Grout(lbs)	400
15 -1.0		/		10
GROUND SURFACE	/// //////////////////////////////////	AD TYPE CONCUCT MENSIONS 2 f1?	Blank Casingft	10
	E315		Bottom Cap(ea)	
	2" PVC we	C	Top Cap(ea)	
	(IN) OD PRO		Flush Mount Protective	
	CASING		Casing (ft)	
	GROUT TYPE		Lock	
2 (IN) OR SOUPPLIES BYG	(IN) BC	REHOLE	MISC.:	
(IN) OD SCHEDULE PVC CASING WITH FLUSH THREADED JOINTS		MENOLE		
1				
TOP OF SEAL (FT - BGL)	(FT) TI	IICK SEAL ,		
6	SEAL TYPE	re Gold Mrd, Be	into hite	
TOP OF SAND/GRAVEL PACK (FT - BGL)	→ 🚆 🚆 🕌		NO	TES
10 TOP SLOTTED		(FT) ABOVE SLOTTED CASING ——		
TOP SLOTTED CASING (FT - BGL)		// / 6	l.>.	
	FILTER PACK TYPE/GRADA	TION Colorade Si	X	
	0.010 (10) 910			
	(IN) SLC	TS CUT INTO TYPE 304 SS		
Hydrate grout every 3'				
	☑ WATER LEVE	MEASUREMENTS (ALL		
	TOP OF PVC C	MEASUREMENTS (ALL ITS IN DEPTH, FT FROM CASING)	'	
	AFTER CONS	TRUCTION 15.5 8-14 1730	(FT)	
24	AFTER DEVE	LOPMENT 14.54 8/19/02 14:00	(FT)	
20 TOTAL DEPTH CASING (FT - BGL)	DATE/TIME	14.00		
TOTAL DEPTH HOLE (FT - BGL)				
<u></u>		·		

DRILLING HICA BROWNED HAMBER STEE DROPP MULTIP S		TSON	RY Anch	orage,	, Alasi	ka			so)IL	BORING LOG	PROJECT NO).:	BORING NO.: SHEET
BRILLING HS A BORNO CYA PROPER SIZE SIZE SIZE SIZE SIZE SIZE SAMPLE SIZE SIZE SIZE SIZE SIZE SIZE SIZE SIZ	l .				II R	I _					SITE Northeast Cape, St. Lawernce Is CLIENT	USACE - Alaska		GEOLOGIST MeLoan O une
BRILLING HS A BORNO CYA PROPER SIZE SIZE SIZE SIZE SIZE SIZE SAMPLE SIZE SIZE SIZE SIZE SIZE SIZE SIZE SIZ	DATE	8/10	1/0	2		_	WEA	THE	R	clo	ak state Plan COORDINATES	NE 96154.1887 (Northing)	(Easting)	5023 ELEVATION 195L
SOIL DESCRIPTION Section Sectio	DRILL METH	ING OD .	1-	₹ ≤ .	A				BC SIZ	RING	8 9 4 HAMMER 30/366	. RIG TYPE (ME	45	
SOIL DESCRIPTION WELL COMPLETED IN THE BEST THE	# SAN	/PLES	<u>. </u>				SAMP TYPE	LE			SAMPLER 2 SS TOTAL DEPTH	(FT) 25 DEP SWI	тн то - - (п) - °	20,0 TOP OF HOLE 81.79
## SP 1255 N Dry Crushed Rich to adar/Fraining ## 27	EPTH EET)	S (6 IN.)		GRA	SIZE O	ZE (IN)	LASS	IIC LOG				٧	WELL C	
Ansyles 3.5 d		BLÓW	% GRA	% SAN	% FINE	MAX SI	SOILC	GRAPH	TIME	Î	(ASTM 2488)		NORTH	28
1	#1	╡					SΡ				Fill- Groun Sil Curshy	Rock		
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PROJEC				RI						SITE Northeast Cape, St. Lawernce Is CLIENT AK STATE PLAN			GEOLOGIST Mebear	nOGmell
DATE 8	10	/02			- '	WEA	THE		~	COORDINATES		(Easting)	ELEVATION DATUM	
DRILLIN METHOL			,					BO SIZ	RIN	HAMMER DR0P (IN/LBS)	. RIG TYPE		DRILLER/ COMPANY Discove	гу
# SAMP	LES					AMP YPE	LE			SAMPLER TOTAL TYPE/DIAMETER DEPTH			TOP OF HO	1
DEPTH (FEET)	(6 IN.)		GRAIN	Т	(IN)	ASS	507	SAMPL		SOIL DESCRIPTION	u	WELL C	_	
	BLOWS (6 IN.)	% GRAVEL	% SAND	FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	TIME	INTERVAL	(ASTM 2488)	•	1		
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DRILLING METHOD Hollow -Stem Auger SURVEYED BORING SIZE BORING SIZE BORING SIZE BORING SIZE BORING SIZE CMSL/Other) CMSL/Other) TOP OF PROTECTIVE TOP OF PROTECTIVE TOP OF PVC	MONTGOMERY WATSON WELL CONSTRUCTION LOG PROJECT NO.: 1850574.260120	ELL NO.: SHEET 1 OF 1
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SURPLE STREET BY SURPLE AT THE STREET BY SURPLE AT THE ADEA JOINTS TOP OF SEAL (FT - BGL) TOP OF SEA	DATE 8/19/102 TWEATHED CALLS	23 DATUM MSL
SURPLY SU	DRILLING Hollow -Stem Auger SIZE BORING 8 4 RIG TYPE 45 A (Northing) (Easting) DR	MPANY Discovery (MSL/Other)
TOTAL DEPTH PROTECTIVE CASING GROUND SURFACE TOTAL DEPTH AFTER DEVELOPMENT OUANTITY MATERIALS USED: Bentoning separation cap OUANTITY MATERIALS USED: CASING SE AND SEPARATION OUANTITY MATERIALS USED: CASING SE AND SE	I SURVEYED GROUND AL SO TOP OF PROTECTIVE AL SO TO	
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Blank Casingth 5 Bottom Capies 1 Top Capies 1 Top Capies 1 Top OF SAND/GRAVEL 15 Top SLOTTED CASING (FT - BGL) 1 Top SLOTTED CASING (FT - BGL) 1 Top OF SYNC (FT) ABOVE 10 - 410	1.0	
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TOP OF SAND/GRAVEL PACK (FT - BGL) TOP SLOTTED CASING (FT - BGL) Hydrate grout every 3' WATER LEVEL MEASUREMENTS (ALL MEASUREMENTS IN DEPTH, FT FROM TOP OF PVC CASING) AFTER CONSTRUCTION	CASING WITH FLUSH	
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TOP OF SAND/GRAVEL PACK (FT - BGL) TOP SLOTTED CASING (FT - BGL) FILTER PACK TYPE/GRADATION FILTER PACK TYPE/GRADATION SALA 10 - 40 O/O10 (IN) SLOTS CUT INTO (IN) OD TYPE 304 83 WATER LEVEL MEASUREMENTS (ALL MEASUREMENTS IN DEPTH, FT FROM TOP OF PVC CASING) AFTER CONSTRUCTION — (FT) DATE/TIME AFTER DEVELOPMENT 20.24 (FT) DATE/TIME 1/20/02 16:50	(FT) THICK SEAL	
Hydrate grout every 3' TOTAL DEPTH CASING (FT - BGL) TOP SLOTTED CASING (FT - BGL) FILTER PACK TYPE/GRADATION FILTER PACK TYPE/GRADATION GOLD (IN) SLOTS CUT INTO (IN) OP TYPE 304 33 WATER LEVEL MEASUREMENTS (ALL MEASUREMENTS IN DEPTH, FT FROM TOP OF PVC CASING) AFTER CONSTRUCTION — (FT) DATE/TIME — AFTER DEVELOPMENT 2024 (FT) DATE/TIME 1/20/02 16:50	TOP OF SAND/GRAVEL Chips	NOTES
TOTAL DEPTH CASING (FT - BGL) FILTER PACK TYPE/GRADATION FILTER PACK TYPE/GRADATION Govedo Silico Sino 10 - 418 O/O10 (IN) SLOTS CUT INTO (IN) OB TYPE 304 93 WATER LEVEL MEASUREMENTS (ALL MEASUREMENTS IN DEPTH, FT FROM TOP OF PVC CASING) AFTER CONSTRUCTION — (FT) DATE/TIME //O20/02 1/150	PACK (F1 - BGL) (FT) ABOVE	10120
FILTER PACK TYPE/GRADATION Since Silico Since Silico Since Silico Since Silico Since Silico Since Silico Since Silico Since Silico Since Silico Since Silico Since Silico Since Silico Since Silico Since Silico Since Silico Since Silico Since Silico Since Silico Since Silico Silico Since Silico Silico Silico Sili	1 15 TOP SLOTTED □ □ □ □ □	
Hydrate grout every 3' WATER LEVEL MEASUREMENTS (ALL MEASUREMENTS IN DEPTH, FT FROM TOP OF PVC CASING) AFTER CONSTRUCTION ————————————————————————————————————	FILTER PACK Colovedo Silico	
Hydrate grout every 3' WATER LEVEL MEASUREMENTS (ALL MEASUREMENTS IN DEPTH, FT FROM TOP OF PVC CASING) AFTER CONSTRUCTION(FT) DATE/TIME AFTER DEVELOPMENT(FT) DATE/TIME		
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DATE/TIME	₩ MEASUREMENTS IN DEPTH, FT FROM TOP OF PVC CASING)	
AFTER DEVELOPMENT 20.24 (FT) DATE/TIME \$/20/02 16:50		
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MONTGO WATS	ON	KY nchora	ige, Al	aska			SO)/L	BORING LOG PROJECT NO.: BORING NO.: SHEET 88-10 X OF X
PROJEC	т <u>І</u>	hase	: III	RI					SITE Northeast Cape, St. Lawernce IscLIENT USACE - Alaska GEOLOGIST MeLsan O'Cure!
DATE 8	19	/02		_	WEA	THE	R	lo	AK STATE PLANE 16293.0099 97970.2989 ELEVATION MSL
DRILLIN METHOL	G) _	 	Å		CAME				HAMMER 30/366 RIG TYPE ME 45 DRILLER/ Discovery
# SAMP			RAIN S		TYPE		Grab		SAMPLER TYPE/DIAMETER 2"55 TOTAL 27, 5 DEPTH TO 25,0 TOP OF HOLE 86.86
DEPTH (FEET)	BLOWS (6 IN.)	% GRAVEL			SOIL CLASS	GRAPHIC LOG	SAMPL		SOIL DESCRIPTION (ASTM 2488) WELL COMPLETED? YES NO
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MONTEC WATS	SON .	RY Ancho	rage,	Alask	a			SC)/L	BORING LOG	PROJECT NO 185874, 269	120	BORING NO.: 88-10	SHEET 2 OF 2
PROJEC	т _]	Phas	e II	IRI						SITE Northeast Cape, St. Lawernce Is CLIENT	USACE - Alaska		GEOLOGIST McLea	064mell
DATE 8	19	/02			_	WEA	THE	R		AK STATE PLAY COORDINATES		(Easting)	ELEVATION	
DRILLIN METHOI		_						BC SIZ	ORIN ZE .	DROP (INVLBS)	(Northing)		DRILLER/ COMPANY Discove	
# SAMP			GRAIN	0175		AMP YPE		SAMPI	- 1	SAMPLER TOTAL TYPE/DIAMETER DEPTH		1	TOP OF HO	·
DEPTH (FEET)	BLOWS (6 IN.)			Т	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	TIME	NTERVAL	SOIL DESCRIPTION	1	WELL	COMPLETED?	ES NO
	BLO	% GR	% SAND	% FIN	¥Ψ	SOIL	GRAF		Ξ			NORTH		1
X									ļ	Cartinuation of Mh) 88-18			
(1) ²²	13					ς/Λ		1205	17	odar - Moist Crarked Coarse Sand, sves	vockt		Suf! I	
23	13									02NEX85B 019 PJ	D= 881		,	
24	114					SΜ		1715	X	Ody - Crushel Rock +C	ourse sard			
(§) ₂₅	12							***********	 - -	sheer on span				
00	2]							••••••	V	PLDS	> 352			
26	 							<u> </u>	17	O2NE583B020			LOCATION SKE	тсн
27										Refusal @ 27.5				
28	<u> </u>									77.5	BedRo	£		
29	<u></u>							ļ	ļ			 	•	
	·····													
30]								 		***************************************			
31									ļ	***************************************	***************************************		••••••••••••	
32	ļ	ļ	•••••			•••••			ļ		•••••••••••••		***************************************	
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25	1								<u>†</u>		***************************************			
35 - :		ļ				•••••	 	ļ	 .		***************************************		*******************************	***************************************
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37	ļ	<u> </u>					ļ		Ţ		***************************************		***************************************	
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40	ŧ	ļ]		ļ]	ļ				***************************************	***************************************
41]								 		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			••••••••••
42	<u> </u>					••••••			-				***************************************	•••••••
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erhabits to laminary approximate an experience of the experience o

MONTGOMERY WATSON WELL CONSTRU	CTION LOG	PROJECT NO.:	WELL NO.: SHEET 1 OF 1
Northeast (Cape, St Lawernce Island	1850574.260120 CLIENT_ USACE	O'Connel)
DATE 8/ 19/02 WEATHER PAULL Cloudy	LOCATION		GEOLOGISI MeLcan 970.2949 ELEVATION 145L
DRILLING METHOD Hollow -Stem Auger SIZE BORING SIZE	RIG TYPE HS	(Northing) (Fas	DRILLER/ Discovery (MSL/Othe
SURVEYED GROUND SURFACE %6.4	TOP OF DDO	ECTIVE 86.86	TOP OF PVC CASING 86.46
ELEVATIONS			WELL SAMPLED?
I.D STEEL ELUSH-MOUNTED			QUANTITY MATERIALS USED
STEEL FLUSH-MOUNTED PROTECTIVE CASING (FT - BGL)SECURED WITH 2-1/2"			Sand(lbs) 408
BOLTS	4" ID locking expans	ion cap	Sand(lbs) 708 Grout(lbs)
,5 ←1.0 /	\angle	DTYPE Concrete	Screen(ft)
GROUND SURFACE	P.F.	MENSIONS 2 12	Blank Casingft
	2" PVC wel	l casing	Bottom Cap(ea)
	Silica Sand	8	Top Cap(ea) \ \ \ \
	← (IN) OD PRO CASING	TECTIVE	Protective Casing (ft)
			Lock \
	GROUT TYPE	BEHOLE 8 14	MISC.:
(IN) OD SCHEDULE PVC	(IN) BO	REHOLE 8 9	_
CASING WITH FLUSH THREADED JOINTS			
TOP OF SEAL (FT - BGL)			
	SEAL TYPE P	uve gold Med, Bei	a Toujse
15 TOP OF SAND/GRAVEL PACK (FT - BGL)	1000000	Chips	NOTES
	1	(FT) ABOVE SLOTTED CASING	
TOP SLOTTED CASING (FT - BGL)	<u>_</u>		
	FILTER PACK TYPE/GRADAT	ION Colorado Sili	<u>Ca</u>
	**************************************	sard	
	0.010 (IN) SLO	TS CUT INTO PYPE 304-SS	
Hydrate grout every 3'			
		MEASUREMENTS (ALL TS IN DEPTH, FT FROM	
	★ MEASUREMEN TOP OF PVC C	TS IN DEPTH, FT FROM ASING)	
		TRUCTION(F	-т)
	DATE/TIME _		
37 7074 3777	AFTER DEVEL	OPMENT 24,29 (1 120/02 14:00	FT)
27,5 TOTAL DEPTH CASING (FT - BGL) TOTAL DEPTH	DATE/TIME 4	18:00	
HOLE (FT - BGL)	₩		
Į.			

MONTE		RY Anchora	ge, Alas	ska		SC		BORING LOG	PROJECT	كدهاكم	BORING NO.:	SHEET 1 OF
PROJECT				e III RI				SITE Northeast Cape, St. Lawernce Is CLIENT.	USACE - Alaska		GEOLOGIST CHICAGO	cLean
DATE 8/	17/0	2		. WEA	THE	R <u>(</u>	041	AK STATE PLANE COORDINATES	96241.8412 99 (Northing)	<u>8320、 </u>	55 ELEVATION	MSL
DRILLING METHOD	ì _	1 5	A			BOF SIZI	RING	8 /4 HAMMER 30/360	RIG TYPE CME		DRILLER/ COMPANY Discovery	
# SAMPL	.ES	2		SAMP TYPE	LE (árak		SAMPLER TYPE/DIAMETER 2 55 TOTAL DEPTH		PTH TO FV		
F.F.	(6 IN.)	т.	N SIZE	_				SOIL DESCRIPTION		WELL CO	OMPLETED?	
DEPTH (FEET)	BLOWS (6 IN.)	% GRAVEL	% FINES	MAX SIZE (IN) SOIL CLASS	GRAPHIC LOG	TIME	INTERVAL	(ASTM 2488)		lack	Drainase	
0-	\vdash	* -	8 8	_ გ თ	5	1600	\vdash			NORTH	Drainase Basin	ν η
]				SA	ļ	1600	<u> </u>	T-11-Vock+aux		1	Ø)7)	
1			ļ		 		ļ		***************************************			, 11
2-]				<u> </u>		†	·	***************************************			x 544
× 3				PT	ļ	1820	1	Peg - Frozen, Very hav				
$\left(\mathcal{D} \right)^{-\frac{1}{2}}$	16				ļ	11040	1:	part grown Slight odor		Gen	Blas	\ - \ ⁻
4	16. 4				·	ļ	11	Slight Odov,	PID=		1087	
5	11			P		1830	Ϋ́	Frozen Peat Slight Od	oV		LOCATION SH	KETCH
(Z) ₆	19				 			Toexistals in some	; =	<u>L</u>		
	10		<u> </u>				Ŵ					
(3)	<u>}</u>					1840	1	No Retvieval Roch? PFD:		**********		
8	24	•••••					11	A ADNIEW (RADD)			······································	
9-	72 <u>1</u> -15			51		1850	11	grey, Fine grained son	PID=	14 LUI	th 100 X-51	4/5
10-	21				<u> </u>		 	V				
(5)	<u> </u>			بري ا	`	1905	11	greyish-Brown Froze	M With IC	C X-51	als	
11	25											
12	= 12.1 13			5M			*	Frozen with ice x	- S+ 11 (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************	
13	317			 			11		PFD =			
'3	1	<u> </u>		<u> </u>	<u>.</u>		.]					
14	<u> </u>				<u> </u>		1.8.	BOHDM 5B 88-11	***************************************			
15	<u>}</u>			<u> </u>	l	·		7-140				
16-	3											
16	<u> </u>					<u> </u>			***************************************	*******************	***************************************	į
17	=	<u> -</u>		<u> </u>			-					
18]			<u> </u>					***************************************	***************************************		
<u> </u>]		<u> </u>	<u> </u>	-	<u> </u>	-			••••••		
19	=						ļ					
20	=					<u> </u>						
21	<u> </u>			-				}			***************************************	
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Constant of the second		The state of the s
MONTGOMERY WATSON Anchorage, Alaska	SOIL BORING LOG PROJECT,	BORING NO.: SHEET S& 81-12 1 OF
PROJECT Phase III RI	SITE Northeast Cape, St. Lawernce Is _{CLIENT} USACE - Alaska	
DATE 8/10/02 WEATHE	AKSTATE PLANE 96398.0750	96329.4776 ELEVATION //5L (Easting)
DRILLING HS4	BORING 84 HAMMER 30/366 RIG TYPE CHE	DRILLER/ COMPANY Discovery
METHOD SAMPLE TYPE		EPTH TO 13.0 TOP OF HOLE (9.7)
" OF INTELLE O .	SAMPLE SOUL DESCRIPTION	WELL COMPLETED?
DEPTH (FEET) BLOWS (6 IN. % GRAVEL % SAND % FINES MAX SIZE (m) SOIL CLASS	SOIL DESCRIPTION (ASTM 2488)	T SILZ & NO
		NORTH
°	1235 Fill-Largevocks 5-7-+ grave)	
1 3 1 1 1 1		x 5056-17
(h) 2 = 5	1245/1 (rushed Rock - Brown/Every File SAM	- 185-2 X
3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	No oda / Some Iron staining	·····
1 3 3 4 1 1 est	PID = (3,0)	
D4 3/2	Reat @ 4 - with organized 1000 1 Blown = 10 dow/ stain 10 100 Grey = try fine Dous (SHJ/SITT Brown = Pert Worganized OTD - 800)	MW. /
5 - 7	Apply = Rot Novalie	LOCATION SKETCH
10 PT		LOCATION SKETCH
3 18 1 1 SA	1255 1 No solo/Stain FROZEN	5= 980
7 3 1 1 1	Very Fire Douse Sond Scilt PIT avery Solid 2 core	
8 -12 CM	1200 M Solis Gres FAZON & B.9'	
(4) <u>.</u> = 19		FD = 65.0
34	V CV4Shd MCK CONS SOLD @ 10	14FAZen
10 = 15	124 11	
1	Wisher Richt Coase Sent No oder/stein PTD=53,0 Meist@ 12 Gica, Sand of Crushel A	
13-391	Meist@ 12 Grey sand + Crushed 1	esch)
'2 37	1310 N. Roovery - Rock	
13 4 2		
14-38	Filled V partolite Dy 14	, <i>O</i>
15	6,0554 FUD CC22	
'5		
16 =	Sample 02NE885323 = 4.	2 4-6,01
17 =	2 Lul - H	5 10,0-12.0'
18 _		
19 =		
20 =		
21 -		

18574.260120

Anchorage, Alaska SUIL BURING LUG NO.: S & 89-13 &	/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	une McLean
DATE 8/20/02 WEATHER PRINTS COORDINATES 9/341.182 98303.2553 DATE (Northing) (Easting)	ATION MSL
DRILLING H54 BORING 8 4 HAMMER 30/360 RIG TYPE CHE 45 COMPANY DRILLER/ DRIPH	
# SAMPLES 2 SAMPLE GVAS SAMPLER 255 TOTAL DEPTH TO SWL (FT) FROZER E	OP OF HOLE (9,5)
SOIL DESCRIPTION WELL COMPLETED WELL COMPLETED	YES NO
WELL COMPLETED. SOIL DESCRIPTION (ASTM 2488) WELL COMPLETED. (ASTM 2488) WELL COMPLETED.	
0	
	58-12
	74
2 = 7 SP 1405 1 Crushed rick + Sand - oder	x 5313
/ チノ =	
PID= 79,9	يد رسايم
2 = 5 CM Prozen Dose Stey Wodow	7.62
	TION SKETCH
(3) =41 (1)	
7 = 3 P1 UNFEREN PEOP & 7-5der	***************************************
8 =4 Sn 1420 1 Five gres Fozen Siltensis ode	
(4) = 5 = 1 1 10 oder 1.FD=51.0	
19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	***************************************
10 = 3 sn Mrs Frozen Solid No gdar S = 7 Fine arc Sil+/Sar PID = 55,1	
51 Fine sucs 311+/5arl PID=55,1	•••••••••••••••••••••••••••••••
12 - 7 SA 1430 Frozan with ice Mody FID = 91,0	
(14 = 3 SM 1435 N Frozen Five avec send soil -PID= 11,2	
14 = 3 Sh 1435 1 Frozen Five avec sind Soil - PID= 11,2	
10 = 7	
16 =	
5900 OZNE885825 = +3 G,0-8,0	
18 = Sq.p. 02NE88SB25 = #3 G,0-8.0 26-#7 14:0-16 0	
19 =	***************************************
20 =	

21 -	

MONTGOMERY WATSON Anchorage, Alaska SOIL BORING LOG NO.: 185	BORING NO .: SHEET
PROJECT Phase III RI SITE Northeast Cape, St. Lawernce Is USACE - Alaska	GEOLOGIST -MoLean
DATE 8/2902 WEATHER Partly Clouds AK STATE PLANE 96251. 2105 (Northing)	98292-9032 ELEVATION MSL (Easting) DATUM
DRILLING HSA BORING 8 H HAMMER 30 360 RIG TYPE C	
# SAMPLES SAMPLER TYPE TYPE/DIAMETER 2-55 TOTAL DEPTH (FT)	SWL (FT) 14,0 TOP OF HOLE (7,)
日子 (WELL COMPLETED?
DEPTH (FEET) (PEET)	Site 25
	NORTH SB &F-1
	56
2 - () () () () () () () ()	86-14
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
$\begin{vmatrix} 3 & \frac{1}{3} $	
15 PT Wat Vola	
(8 = 3 PT 1510 1 PEAT - 600	········
5 = 4	LOCATION SKETCH
6 -2 RK 2 Deat St. M.	
6 32 PT 1515 11 Peat - Styrt odo	
To I KM DAG DATE SURS FINE SURS KINE	. Oda PID-120
09 = 5 SA DELSE GVES FIRE SAPPLE IT	Ode DID-172
10 = 4 1575 1 Demz 5004 Fix Sand 511+ 0	de DID = 503
12 = 3 S/1 1530 / Dense gres- brown Fine Sand +	Red Wodo
6/3=1 Shein an Spoon PI	[D = 150
1, =5	
14 = E end of Barring DT 14	.0
15 - 2	
16 = 5. A/L 62NESS 5/5 Z7 = 28 = .	+1 2.0-4.0
17 	#6 Nous
18 _	
19 =	
20 = 1 1 1 1 1 1 1 1 1 1	
21 =	
21 = 1	

MONTGOMERY WATSON Anchorage, Alaska						SC)/[PROJECT BORING NO.: 8574.261 & 8-15	SHEET 1 OF
PROJECT	· _		Phase	III RI				SITE Northeast Cape, St. Lawernce Is CLIENT USACE - Alaska GEOLOGIST	Lean
DATE 8/	20/0	2		WEA	THEF		ar	AK STATE PLANE COORDINATES 96253. 7354 9824. 4465 ELEVATION DATUM	15L
DRILLING METHOD		H	54			BOF SIZE	RING	HAMMER DROP (INLBS) 30/360 RIG TYPE CME 45 COMPANY Discovery	
# SAMPL	.ES	2		SAMP! TYPE	-E (طس		SAMPLER TYPE/DIAMETER 2 55 TOTAL 22 DEPTH TO 13,0 TOP OF HOL	E 71.21
₩.E.	(6 IN.)		SIZE	E (IN) ASS	0010	SAMPLE	П	SOIL DESCRIPTION WELL COMPLETED?	
DEPTH (FEET)	BLOWS (6 IN.)	% GRAVEL	% FINES	MAX SIZE (IN) SOIL CLASS	GRAPHIC LOG	TIME	INTERVAL	(ASTM 2488)	
0		0		Sρ	J	1705		Rocts Fill 3-5-	
1								× S888-	' ⁹
			\Box		<u> </u>	*************		olds 2088	-15
2	<u></u>		-		ļ				108
3	<u> </u>								1-1
4	111		╁╌┼	SP	 	1715	N	Crushed lect + 51m2 Fine@:5	
$ (1)_{5} $	8							No odar/strin	
					<u> </u>		J.	COLVY SAN @ 6 LOCATION SK	ETCH
6 -	25			SΡ	ļ	170	1	NA Pacingha III had I a said	***************************************
7								No Recovery, Slight a day or spoon	•••••••••
8	17	ļ	-		ļ	1725	%		••••••
9-	6							No Recordy Slight oder on span	••••••••
	1 <u>6</u>	 -	+-		 		 		
(2)10 ⁻	7			ŞΜ	.	087	Ň	Moist, sticky very fine sand/silt grey	
11	12 5		 -					10 odo / PID = 2779	***************************************
12	7				ļ	1735	V	West The true are till I see I see	•••••
(3)] <u></u> 5		+	5M V		1173	17'	Very fire Dange gray sill & Soud No odo Some Iron faming PID=133	
13	17			=					
14	6		† †		·	1740	1	Fine, Silf+Sand/avey No odar Some Vactes	***************************************
14/5-	16			₹ ⁻		,	 	PTh*	••••••
16	7						V	Cranty (a) 16	
16	25	[-		ļ	1745	1	No Recovery - Roct Sample OINESSS 29 = #3	
17	22				ļ			NACY.	
N8 -	13		+			1750	州	Very Fire, Dense Gree Silt Sand No odor	
(5)	9				ļ			Some Reck	•••••••
:	112	 - -			 	••••••		/FD=	
20					<u> </u>	1800	1	Very Five Dense Gircy SiffKard Moder	••••••
21	17	 				••••••	\mathbf{T}	Water tound @ 13' -end of Doving	
ar.	#						₹		

MONTGO WATS	ON		ge, Ala	ska			SC)/L	BORING LOG PROJECT BORING NO.: SHEET NO.: 18574. 260120 186-16 1 OF
PROJECT			Phas	se II	I RI				Northeast Cape, St. Lawernce Is _{CLIENT} USACE - Alaska GEOLOGIST - McLean
DATE 8/20	0 /02		_	_ v	NEAT	HEF	·	2/1	AK STATE PLANE 96260.0342 9182.7094 ELEVATION MSL
DRILLING METHOD		+5	A				BOF SIZE	RING	(100.00.00)
#_SAMPLES	s				AMPL YPE	.E	avay	2	SAMPLER TYPE/DIAMETER 2 55 TOTAL DEPTH (FT) 14,0 DEPTH TO 12,0 TOP OF HOLE-72.95
ΕF	6 IN.)		N SIZE	(S)	SS	LOG	SAMPLE	П	SOIL DESCRIPTION WELL COMPLETED? YES NO
DEPTH (FEET)	BLOWS (6 IN.)	% GRAVEL	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	TIME	INTERVAL	(ASTM 2488)
0-	<u> </u>	% %	* %	Ž		ច		H	P. V. CII 3º I=
			<u> </u>		SP		,		Rocky Fill 3-5-
1 3.									
2 -				-				 	5088-15
3 - 3			.					ļ	> 4 88-16.
Ĭ			+	-		ļ	ļ 	ļ	
164	12		.		Sρ		1845	1	crisical rich + Fill oda (104)
╽╜₅╡	<u> 2 </u> 			-		ļ		╂╫	SONC /SNUM SOM PID = 655 LOCATION SKETCH
6-3	ij							*	
(2) <u>1</u>	<u> </u>			ļ	<u>S/</u>	ļ	1850	1'	CV+shed Rody FSord Oder PID=1558
73	ij,			ļ				11.	4
8 /	<u>.8 </u>			ļ	ļ	ļ	150X	X	acotect -02NE8853043
3.3	Ï				Sρ		1.1.300	11	Odey Crashe rock + Garvic sand oder=
l ° ‡	7				ļ	 		 	PTD = 1142
10-	4				5/	ļ	1905	X	odor , crusted vock, corner sves sand
	12			<u>. </u>		 			011> 2673-
	13			<u></u>	12/2	·····		W	733 20 12
12 =	10				=	ļ	1910	1	Saturated crusted roct, sheen, No Recovery
13-	14			 		·	}	17	
14	18			<u> </u>			ļ	N	D-14.0
∥ ¨ ∄					ļ	 	 		
15 =						<u> </u>			79mple 0-NE885B31=#2 60-80 32-#4 100-60
16					}	<u> </u>	ļ		32-44 10.0-60
						 			
17 =				Ţ		ļ		1	
18 -				+-	 		ļ	+	
19	 			1		 	· [· · · · · · · · · · · · · · · · · ·		
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20				<u> </u>		<u> </u>	1	1	
21				+-				-	

18874,260120

MONTGOMERY WATSON Anchorage, Alaska	IL BORING LOG PROJECT NO.:	BORING NO.: SHEET
PROJECT Phase III RI	SITE Northeast Cape, St. Lawernce Is _{CLIENT} USACE - Alaska	GEOLOGIST MeLean
DATE 8/1/02 WEATHER	AK STATE PLANE 96171. 5812 (Northing)	98270.040 ELEVATION MSL (Easing)
DRILLING SIZE	NG 84 HAMMER 30/166 RIG TYPE CHE	
# SAMPLES SAMPLE GVAN	SAMPLER TYPE/DIAMETER 2 33 TOTAL DEPTH (FT) 14,0 SI	PPTH TO 13,8 TOP OF HOLE (9,65
GRANNSIZE SAMPLE	SOIL DESCRIPTION	WELL COMPLETED?
DEPTH (FEET) BLOWS (6 IN.) %GRAVEL % SAND % FINES % SOIL CLASS GRAPHIC LOG GRAPHIC LOG	SOIL DESCRIPTION (ASTM 2488)	1 site K
0- 0- 0- 0		NORTH
		×
		80.17
2 3 11435	No Recovery, slight and on Spon	107 Genolds
3 - 2		
4 = 25	1 No Recovers	
5 = 27		LOCATION SKETCH
6 -15 1450	1 No Recovery	
39 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	No Recovery	
150 PM 150	Very Strom see	
	Donse gres Ear of /50 T	D= 9999+
	V	<u> ۱</u>
30 = 9 SP 1505	1 Crushed lock-gives, odor	7= 7315
12 JZ 50 \510	1 Crustel vact + Sand, xday	PID= 9999+
3 30 1 7 1 30	2312000	120, /
14 = 14	1 1 0 Sample 02 NO 885003) = (1) 8,0-10.0 = (3) 12.0-14.0
15 1	190	<u>=3) 12:0-14:0</u>
3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	ODNEXXSBD34 (FO)	
16		
17 =		
18 -		
19 =		·
20 _		
31 -		
21 -		

MONTGOMERY WATSON Anchorage, Alaska	SOIL	BORING LOG	PROJECT NO.:	BORING NO.: SHEET
PROJECT Phase III RI	SIT		USACE - Alaska	GEOLOGIST McLean
DATE 8/2\/02 WEATHE	R Cou	AK STATE PLANE COORDINATES	96070.5355 98228.	2167 ELEVATION MSL
DRILLING HSA	BORING SIZE	84 HAMMER 30/360	(Northing) (Easting) RIG TYPE CME 45	DRILLER/ COMPANY Discovery
# SAMPLES SAMPLE TYPE	626	SAMPLER 2 55 TOTAL DEPTH	16/ DEPTH TO	13,0 TOP OF HOLE 7/.93
GRAIN SIZE	SAMPLE	SOIL DESCRIPTION	WELL	COMPLETED? YES NO
DEPTH (FEET) BLOWS (6 IN.) GRAVEL SAND FINES FINES MAX SIZE (IN) SOIL CLASS GRAPHIC LOG	INTE SWIT	(ASTM 2488)	↑	
	1530		NORTH	MV 88-7 SANT
				<u> </u>
1 =				7 ×
2 3 5 5 1	1540	Slight oder, Grown Sord +	Creshed Voc	7 SBQK-18
		• •	1/	
15			> 225	
6 4 4 1 SM	1545 1	Brown sind oviched vacy		
			D=253	LOCATION SKETCH
6 = 1/6 SP	1850	Oda/, Washed rock + 5		
3 16 1 1 1 21	1132011	DOON ON SHEAT SERIES	PTV = 2913	}
7 = 19		Gentral - No Veccovary		
W2 15 1 5W	1555			
1149=21		gues send , odov, laure	PID=4903	
<u> </u>	J -	-Gotech-02NE885		
1 1 1 SM	16551	moist, guey Fine Sand + S Strong oder	511+' ' : PID= 411	7
11 = 6		\$ 1707 <u>5</u>		
12 = 4	VIC X	No Vecovery Strong od	5000	
	10.3	110 VCCOV - 317015 0A	a on speci	
13 4 =				
14 = 11	T Y			
15 _		S. L. MAITO) (BBZ - HU	
		54, plc 01.NE88	036 = #5	
16 -				<u></u>
17 =		OZNEXSSE OZNEXSSB.	335 (QA/MS/MSD 236 (FD)	
18 =				
			•••••••••••••••••••••••••••••••••••••••	
19 =				
20 =				
21 =				

28 75-1

MONTGOMERY WATSON Anchorage, Alaska	SOIL	BORING LOG	PROJECT BORING NO.: SHEET NO.: 18574. 260 88-19 1 OF 2
PROJECT Phase III R	I	SITE Northeast Cape, St. Lawernce IscLIENT.	USACE - Alaska GEOLOGICA Melcan
DATE 8/22/02 WE	ATHER _ Ck	AK STATE PLANI COORDINATES	E 96206. 4925 97683.0309 ELEVATION MSL (Northing) (Easting)
DRILLING HSA	BORING SIZE	874 HAMMEH 30/366	RIG TYPE CME 45 COMPANY Discovery
# SAMPLES OI IIIE		SAMPLER TYPE/DIAMETER 2 55 TOTAL DEPTH	(FT) 32 DEPTH TO _ TOP OF HOLE 97,75
T (S II S S S S S S S S S S S S S S S S	SAMPLE -	SOIL DESCRIPTION	WELL COMPLETED?
DEPTH (FEET) BLOWS (6 IN.) % GRAVEL % SAND % FINES MAX SIZE (#%) SOIL CLASS	GRAPHIC LOG MMIL MMIL MWILL MWILL INTERVAL	(ASTM 2488)	│ ↑ 、
0 = 5	1219	Rocky Fill	NORTH E Willider OCST
]			3 x has
1 1 1			356 X 556 X 556 X 556 X 556 X
2 -			E\ 84-M
3			
4 3			
5 =			LOCATION SUFFERIN
1 3			LOCATION SKETCH
6 = 1 1 1 1 1 1 1 1 1 1			
7 -			
8 = 10	P 1225	Cyusher Fox + Gord , Brownish grey	Ob color/stein
		12027 130 5067	PFD-0
10=91	<u> </u>		······································
2 3 3	0 1750 1	Crushed Rock + Sond A Brownish Every	Voode/Stan
11-17		Wow. 131 2715	PFD = 0
12-14	M		1 44 17
12 = 48 54	0 1235	Crushed Rock, Coarse gr.	rs and Moist/het
13 = 4		I WOUNT STORY	PID- 0
128			
\(\alpha\)'* 33444\\\\	0 12501	Crushed rock card sta	<u>~d</u>
M15 3/3 + + + + + + + + + + + + + + + + + +		PID =	δ
16 1 1	Ţ,		7
10 = 13	2 252	Crusted rock Coard	Sand No da /Stain
12/17=12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		<i>PT C</i>	<i>/</i> - 0
18 = 11 5/	0 1365 1	Cricked rock +sand	No over/stam
19 = 1			PID= D
× 20 = 15			
20 = 13	9 1315	Crushed Racky Brown 3	sard, No oder/Stain
21 = 14		Cottinued V	

MONTGO	ON			A ! !				SC)//	BORING LOG PROJECT NO.: BORING NO.: SHEET 1957 4. 2 60120 88-19 2 06 2
PROJEC		Anchoi ———	_							SITE Northeast Cape, St. Lawernce Is USACE - Alaska GEOLOGIST McLean O'Conv.)
DATE 8					_ v		TUE			AK STATE PLANE ELEVATION
DRILLIN		702			_	VEA	IIIE		RIN	G HAMMER COORDINATES (Rorthing) (Easting) DATUM
METHO					SA	MP.	LE			G HAMMER DR0P (INVLBS) SAMPLER TOTAL DRILLER/ COMPANY Discovery TOP OF HOLE
# SAMP			GRAIN	SIZE	TY	PE		SAMPL	E	TYPE/DIAMETER DEPTH (FT) SWL (fT) ELEVATION WELL COMPLETED?
рертн (FEET)	BLOWS (6 IN.)	Æ		SS	ZE	LASS	IC LO		INTERVAL	SOIL DESCRIPTION
	BLOW	% GRAVEL	% SAN	% FINES	MAX SI	SOIL CLASS	GRAPHIC LOG	TIME	INTE	(ASTM 2488)
21		Ĭ								Cartine 33 88-19
22									, , , , , , , , , , , , , , , , , , ,	
"	12							1325	11	No Recovery Geo Per
23	ii	1			+				††	
24 -	20					····		1-110	Ň	
	126	-			2	ρ		1340	H	Crushed voch No oder/stain
25	<i>[</i>								Ц,	
26	3					W		1350		FINE BOWLM SOLY PID - 0
(9)	5	-			بر			1,20		Fire Brown 54nd LOCATION SKETCH
27	15	ļ							1	PID-0
28	10	ļ			S	ĹΜ		1400	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	MORY SI HISOH
(10),_	13]							11	DENX GVEL Sand/511+ MORY SIH/56H GUNESSUB037 / 237(FO) PID~ O
23	125 17	, 							$\frac{1}{\sqrt{7}}$	ZVU(Led noch + Date)
30	43	 				50		1410	Ň	rushed Pack & Sary
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	24							••••••	<u> </u>	(V45hed Rack) 56rd O2NE6858038/338(QA) PID=0
	27	ļ						• • • • • • • • • • • • • • • • • • • •	W	
32]	ļ								AUGW Refusal 632
33-	<u> </u>	 							ļ	Cont. Other ed CR ? 7 = HIB + 37 FN
		╁┈				•••••			-	Sande O(NE88 SB37 = #10 + -37 FD 38 = #11 337 QH
34	<u> </u>	<u> </u>					ļ		ļ	
35	<u> </u>	 	ļ			•••••	ļ	ļ	 	
36	<u> </u>	 							1	
	∄	ļ	ļ		 		ļ			
37-]	 	 			•••••	ļ		†	
38]	<u> </u>							1	
38	‡	ļ	ļ				ļ		ļ	
39	<u> </u>	†	ļ						†	
40	‡	ļ	ļ						1	
📆]	ļ	ļ				ļ		ļ	
41-]	<u> </u>	<u> </u>						<u> </u>	
42-	 	ļ	<u> </u>				ļ	••••••	Ī	
! (**:	1		ļ				ļ		ļ	

MONTEG WATS	ON	r Y nchora	ge, Ala	ska			SC)/L	. BORING LOG	PROJECT NO.	BORING 88-20		SHEET 2 OF 2
· PROJEC	т _!	hase	III F	RI .					SITE Northeast Cape, St. Lawernce Is CLIENT	USACE - Alaska	GEOLOGIS	T MoLea	no Ghnell
BATE 8	121	/02		_	WEA	THE	R		AK STATE PLAN COORDINATES		DAT	VATION UM	
DRILLIN METHOI								DRING	DROP (IN/LBS)	RIG TYPE	DRILLER COMPAN	Discove	егу
# SAMP	LES				SAMF TYPE				SAMPLER TOTAL TYPE/DIAMETER DEPTH			TOP OF HO	
DEPTH (FEET)	BLOWS (6 IN.)		% FINES	ĝ	SOIL CLASS	GRAPHIC LOG	SAMPI	INTERVAL T	SOIL DESCRIPTION (ASTM 2488)		WELL COMPLETED	L	YES NO
21	8	%	% %	Ž) Ж	5			Continued - No Reco	vc/5	NORTH	a -	,
22	9			Ţ	70		16.1	ĬΫ	***************************************	<i></i>	gea	PS.	^f
(3)	17			╁┈	Sp	ļ	1915	\mathbb{H}	Crushed fock - PFD=C				
23	Ÿ			-				1		•••••••••••			
24 (6)	الم			·- ···	59	ļ	1925	Ň	Crushed fock Brown 5	oN			
25	6.4			<u> </u>		ļ			No ode PID=O	••••••			
26	ᇻ			+	⟨ ⟨ \	 	1435	×	Fire gree sind with some	Ivon Startake	LOCAT	ION SKE	TCU
\mathcal{O}_{27}	115			<u> </u>	<u> </u>	!		1	Me day, crushed rock	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	LOCAT	ION SKE	TICH
	<u>21</u> 50	╟╫			ļ	 -		+f		PID= 0		***************************************	
(g) ²⁸	23 49			-	50	ļ	1450	Ä	Crushed voct, aroun s	SEND PIDE)	*************************	
29-	52				ļ	!	ļ		End of 189 10-24 02		10 -27-0.	7 1/	
30	S				<u> </u>		1030	ň		***************************************			
31	×			-	 	 	ļ			***************************************			
	<u> </u>					.		V			***************************************		
32	- <u>SO</u>				ļ	 	1045	11	No Recovery	~^~~~~	***************************************	***************************************	
33	×				<u> </u>		1	11		*	•••••••	***************************************	
34-					ļ	ļ	1055	X	A1 //2-2-4	••••••	******************************	••••••	
05-	_3Ω -X	<u>† </u>				<u>† </u>	1057		No Recovery	••••••	***************************************		
35	<u>×</u>				ļ	ļ						••••••	***************************************
36-	<u>**</u>	╁┈┧				 	11115		Augur Refuxed @ 36	on lect	***************************************	****************	•••••••
37-	╡				ļ		14.:	1	3	***************************************		***********************	
	╡				<u> </u>		ļ	. 	Sample 02 NESS SB	539=47 -	239 (FD) 340 (DA)	······································	***************************************
38]			+	 	╁┈		+		40 40	3-10 WH.) 	
39]	ļļ				Į	ļ	Ţ					
	╡	╁┈┧			 	 	 	-		***************************************	***************************************		
40	<u> </u>					<u> </u>	ļ			***************************************			
41					 		 				***************************************	***************************************	
42-]			-	 	ļ	ļ	 				••••••	
I (٦	1				ļ				***************************************	***************************************		*********



WATER SAMPLING FIELD NOTE FORM

SITE: Northeast	Cape	Sample ID #: m	W 88-1	DATE: <u>8/15/0</u> .	2
SAMPLE TYPE					530 End 1230
WEATHER:	SKY: P. Cloudy	PRECIP: p		WIND: <u></u>	Air Temp <i><u>50</u></i>
GROUNDWATE	ER: DEVELOF	MENT X	SAMPLING		
Well Condition:				<u> </u>	
Casing Ht Abov	ve Ground: AUA	clustel (FT	`Diameter:	2"	in
Well Denth:	%	OCAMeas (Bec	Static Water	Level: 21.78	ft BTOC
Casing (C) -	X Well	Outside Protect	tivo	LCV01. 91773	_11. 100
_ , ,					- 1
ONE DUDGE V	COT AND THE TABLE	v (dia /04)AO v 3	14 v (Dooth V	N. L.)= 3ping = 2	7 gal
ONE PURGE V	OLUME. 7.46	x (ula./24)/2 x 3	. 14 X (Deptil-v	. L.)=	<u>/y</u> ai.
PURGING:	Gallons	Time	Temperature	°CE.C. (µmhos/ci	m)* pH*
METHOD	0	/030		283.1	
W.Z.V.IOD	/	1032	4,8	231.1	6.32
Bailer	2+	1040		228.6	6.189
Daner	No more pared			Le Dinitly tomorrow	
Ded. Pump					
Dea. Fullip					
Suction Pump					
Peracy Roma					
(other)		· · · · · · · · · · · · · · · · · · ·			
(Other)	1		* TEMP CO	RRECTED @ 25C	
			I EIVIF. COI	NNECTED @ 250	
SURFACE WA	TED				
		Width:	Velocity:	Flow:	cfs (Est./Meas.)
1				Redox (eH):	
1		E.C: *		Redox (eH):	
Tomp.			P' ''		- Andrews
1				ميعاميه	paranta.
SAMPLE COLL	ECTION			Arrive interested	
Method:		Appearance:		- an about the control of the contro	
Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	TITIC	Analyte	Time	Analyte	
Alkalinity EPA300					
DILA SYVOZOÙD					•
GRO AK101					
DRO/				PRODUCT	
1					
RROAK102/103				Visosity	
Methane/Ethan	1 e /			Density	
Ethene RSK175	104/001	ID: O-III	D1	Interfacial Ten	
COMMENTS:			Dupl	Trip Blank	Other
	ELD FILTERED		HOTO TAKEN		000 1
Calibration/Sta				DO NA	CO2 NA
Decon complet	ted: by	2 date	8/15/02		
REMARKS:					



WATER SAMPLING FIELD NOTE FORM

SITE: Northias	Lape	Sample ID #:	mw 88-1	DATE: <u>8/16/</u> 0	2	
SAMPLE TYPE:	GRAB	FIELD CREW	!: <u>δ</u> φ	TIME Start :_/	310 End 1600	
WEATHER:	SKY:	_ PRECIP:	Ø	WIND:<	Air Temp. <u>50</u>	
				•		
GROUNDWATE		PMENT	_SAMPLING	X		
Well Condition:_			T ' D '			
Casing Ht. Abov	e Ground: <u>MA</u>	FIWH TO (F	I. Diameter:	2	_in.	
				Level: 21,94	_ft. BTOC	
Casing (C) =				_		
* Prior to casing	(Pue) cut and	flush install =	0.44 (D th.)	3x 7crac W. L.)= 2 2125 ga	771	
ONE PURGE VI	OLUME: 7.48	x (dia./24)^2 x	3.14 x (Depth-	vv. L.)= <u> </u>	.,/ <u>5 g</u> ai.	
PURGING:	Gallons	Time	Temperatur	e °CE.C. (µmhos/cr	n)* pH*	
METHOD	Gallons	riile	remperature	S CL.C. (µIIIIOS/CI	<u> </u>	
WILTHOD	0	/340	4,2	386.8	6,07	
Bailer	1 day	/330	6,0	387.5	6,03	
	1+ dn/	1400		207.4	6.89	
Ded. Pump						
Suction Pump			-			
(other)					_	
			* TEMP. CO	RRECTED @ 25C	DO 8.4 mg/L	
				TURE CO2	DO 8.4 mall >1,000 NTO Not Readable due to ter	rbulty
SURFACE WAT		2NE8861W001				
Channel Depth		_ Width:	Velocity:		cfs (Est./Meas.)	
Temp:		E.C: *	pH:*	Redox (eH):		
Temp:		_ E.C: *	pH:*	Redox (eH):		
0.4451.5.0011	COTION	12116 ES	a. 1250 J		Possibly too	
SAMPLE COLL				7 7 11 11		
Method: Builer	ľ	• •	i		visible, Petrol Oday	
	Time /4@ +	Analyte	Time	Analyte	Time	
Sulfate EPA300	1					
Alkalinity EPA300 BTEX SW8260B						
GRO AK101						
DRO/				PRODUCT		
RROAK102/103				Visosity		
Methane/Ethane				Density		
Ethene RSK175	5 /			Interfacial Ten	eion	
	QA/QC Label	ID: Split	Dupl	Trip Blank		8/19/
** METALS FIE			Dupi PHOTO TAKEN		158818 003	
Calibration/Star			C ~	DO NA	CO2 MA	2100
Decon complete		O(C) dat			<u> </u>	ı
	Extendely Slow	- A 1	heaters of Proched			ı
***************************************		(i	MANY OF FTILMEN	William Carrey		



WATER SAMPLING FIELD NOTE FORM

			MW 88-2		
SAMPLE TYPE	NA	FIELD CREV	N: <u></u> Δ <i>Φ</i>	TIME Start :/	136 End 1455
WEATHER:					Air Temp. 🚾
<u> </u>					
GROUNDWATE	R : DEVELOP	MENT X	SAMPLING		
Well Condition:	NEW				
		Jush (FT. Diameter:	ع ع	in.
				Level: 9.71	
Casing (C) = _					_
-				Spende	
ONE PURGE V	OLUME: 7.48	x (dia./24)^2	x 3.14 x (Depth-\	N. L.)= 1.	<u>.チ</u> gal.
PURGING:	Gallons	Time	Temperature	°CE.C. (µmhos/cr	m)* pH*
METHOD	Ċ	1/30	5,7		4.50
	2 14	1140	4.0	243.1	6.06
\ Bailer	3 401	14 55	4), 7	237.8	6,10
Ded. Pump					
,					
Suction Pump					
Perace Pemp					
(other)					
	 -		* TEMP. CO	RRECTED @ 25C	
SURFACE WAT	rer				
					cfs (Est./Meas.)
Temp:			pH:*	Redox (eH):	
Temp:		E.C: *	pH:*	Redox (eH):	- Carrent Carr
					at our remarkation and the same of the sam
j				an a separate separat	,
SAMPLE COLL	ECTION				
Method:		Appearance	e:	The same is the same of the sa	
Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300			man samuel and the		
Alkalinity EPA300			marrier of a comment		
BTEX SW8260B		and the same			
GRO AK101		. menero e de			
DRO/	,	proces in the second		PRODUCT	
RROAK102/103				Visosity	
Methane/Ethan	e/			Density	
Ethene RSK175				Interfacial Ter	ision
COMMENTS:	QA/QC Label I	D: Split	Dupl	Trip Blank	Other
** METALS FIE			PHOTO TAKEN	#	
Calibration/Star		7,10	EC 🗸	DO MA	CO2 NA
Decon complete	ed: by DQ	d	ate 4/15/02		
REMARKS:	Restriction of the Control of the Co				
					-



SIIE: Northiast		•		DATE:_8-1+-0X	
SAMPLE TYPE:	Grab	FIELD CREW	': <u>D</u> q	TIME Start :_ارده	<u> </u>
WEATHER:	SKY: P.C.	PRECIP:	RAIN	WIND: 40-50	⊇ Air Temp.
GROUNDWATE	R: DEVELOR	PMENT	SAMPLING	χ	
Well Condition:					
Casing Ht. Abov		1.4 /5	T 'Diameter:	Ž.	n.
					ft. BTOC
				Level. 12,00	II. BTOC
Casing (C) = _	Z vveii	_ Outside Prote	ective	Jr paraje	
		, ,			
ONE PURGE V	OLUME: 7.48	x (dia./24)^2 x	3.14 x (Depth-\	N. L.)=	3 gal.
PURGING:	Gallons	Time	Temperature	°CE.C. (µmhos/cm	
METHOD		1645	ls::::	335./	7.00
	i	1050	€.9	332,7	- 7 ,//
Bailer	- 20 MA	1655	5,3	fil 311 - 49	6,79
	-24 dry	1700	<u> </u>	200. 3	6.80
Ded. Pump	<u> </u>				
,					
Suction Pump					
(other)					
	TURE - 288 NT.	40 8,2 Age	* TEMP CO	RRECTED @ 25C	
	CO2 NA - Due to +		12.00	111120120 0 200	
SURFACE WAT	TER				
Channel Depth		Width:	Velocity:	Flow	cfs (Est./Meas.)
Temp:	reconstruction of the same	E.C: *	pH:*		100
Temp:		E.C: *	pH:*	Redox (eH):	The state of the s
Temp.		_ L.O	pri	Tiedox (eti)	
SAMPLE COLL	ECTION	OZNE88	601 1777		
				1/0/1/5/	
1	,			N, No Odar, No. Shees	1
Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1700				
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/				PRODUCT	
RROAK102/103				Visosity	
Methane/Ethan	e/			Density	
Ethene RSK175				Interfacial Tens	ion
COMMENTS:	QA/QC Label	ID: Split	Dupl	Trip Blank	Other
** METALS FIE			PHOTO TAKEN		E 88 TB 003 \$
Calibration/Star			C ~	DO ATÉ	CO2 🚜
Decon complete		DC da			
				but ones purged extra	mely slow to
	econer	in water, Co	Same rableses + 45'11	our ome project CHAC	mest 71000 m
	LLUVCA				



	Cape	, Sample וט #:	MW 88-3	DATE: 8-18-0.	<u> </u>	
SAMPLE TYPE	:NA	FIELD CREW	1: <u>D</u> P	_ TIME Start :_/o	2 End 1050	
WEATHER:	SKY: P.C.	_ PRECIP:	ф	WIND:/0	Air Temp. <u>5</u>	
GROUNDWATI	ER: DEVELOR	PMENTX_	_SAMPLING _			
Well Condition:	NEN					
Casing Ht. Abov	ve Ground:^	A Flush (F	T.`Diameter: <i>_2</i>		_in.	
Well Depth: 20.	^{/ĉ} * ft. BT	OC (Meas)/Re	c. Static Water L	evel: <u>/5,/2</u>	_ft. BTOC	
Casing (C) = _	<u> </u>	_ Outside Prot	ective			
* Prior to PI	ic Cul.			3x Pires		
ONE PURGE V	OLUME: 7.48	x (dia./24)^2 x	3.14 x (Depth-W	3x Pirge - 225 .	<u>\$3</u> gal.	
PURGING:	Gallons	Time		CE.C. (µmhos/cn	n) <u>*</u> pH*	
METHOD	<i>c</i>	1000	٠,5	Z/3 7. 4	_ ১ ন্ত	Shren + Cod r
		1005	3, 2	279,2	7,41	
Bailer	<i>3</i>	1010	3.4	=242.7	7,43	multy Brown
	3	1015	3.4	S48.5	7,40	
Ded. Pump	5	1030	3,6	27.C	7.38	Cleaning 00
	10	1050	3.4	233.7	7.40	Clearing Up
Suction Pump						
Farger Pamp						
(other)						
			* TEMP. COR	RECTED @ 25C		
SURFACE WA						1
Channel Depth	1:	_Width:	-		_cfs (Est./Meas.)	
Channel Depth Temp:	1:	E.C: *	pH:*	Redox (eH):	The same and the s	
Channel Depth	1:		-		The same and the s	
Channel Depth Temp:	1:	E.C: *	pH:*	Redox (eH):	The same and the s	
Channel Depth Temp: Temp:	1:	E.C: *	pH:*	Redox (eH):	The same and the s	
Channel Depth Temp: Temp: SAMPLE COLL	1:	E.C: * E.C: *	pH:* pH:*	Redox (eH):	The same and the s	
Channel Depth Temp: Temp: SAMPLE COLL Method:	ECTION	E.C: * E.C: *	pH:* pH:*	Redox (eH): Redox (eH):	The second secon	
Channel Depth Temp: Temp: SAMPLE COLL Method: Analyte	1:	E.C: * E.C: *	pH:* pH:*	Redox (eH):	The same and the s	
Channel Depth Temp: Temp: SAMPLE COLL Method: Analyte Sulfate EPA300	ECTION Time	E.C: * E.C: *	pH:* pH:*	Redox (eH): Redox (eH):	The second secon	
Channel Depth Temp: Temp: SAMPLE COLL Method: Analyte Sulfate EPA300 Alkalinity EPA300	ECTION Time	E.C: * E.C: *	pH:* pH:*	Redox (eH): Redox (eH):	The second secon	
Channel Depth Temp: Temp: SAMPLE COLL Method: Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B	ECTION Time	E.C: * E.C: *	pH:* pH:*	Redox (eH): Redox (eH):	The second secon	
Channel Depth Temp: Temp: SAMPLE COLL Method: Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101	ECTION Time	E.C: * E.C: *	pH:* pH:*	Redox (eH): Redox (eH): Analyte	The second secon	
Channel Depth Temp: Temp: SAMPLE COLL Method: Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/	LECTION Time	E.C: * E.C: *	pH:* pH:*	Redox (eH):Redox (eH): Analyte PRODUCT	The second secon	
Channel Depth Temp: Temp: SAMPLE COLL Method: Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/103	ECTION Time	E.C: * E.C: *	pH:* pH:*	Redox (eH):Redox (eH): Analyte PRODUCT Visosity	The second secon	
Channel Depth Temp: Temp: SAMPLE COLL Method: Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/103 Methane/Ethan	ECTION Time	E.C: * E.C: *	pH:* pH:*	PRODUCT Visosity Density	Time	
Channel Depth Temp: Temp: SAMPLE COLL Method: Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/103 Methane/Ethan Ethene RSK175	ECTION Time	E.C: * E.C: * Appearance: Analyte	pH:*pH:*	Redox (eH):Redox (eH):Redox (eH): Analyte PRODUCT Visosity Density Interfacial Ten	Time	
Channel Depth Temp: Temp: SAMPLE COLL Method: Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/103 Methane/Ethan Ethene RSK175 COMMENTS:	ECTION Time e/	E.C: * E.C: * Appearance: Analyte	pH:*pH:*Time	PRODUCT Visosity Density Interfacial Ten Trip Blank	Time	
Channel Depth Temp: Temp: SAMPLE COLL Method: Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/103 Methane/Ethan Ethene RSK175 COMMENTS: ** METALS F18	ECTION Time e/ QA/QC Label ELD FILTERED	E.C: * E.C: * Appearance: Analyte	Dupl.	Redox (eH): Redox (eH): Redox (eH): Analyte PRODUCT Visosity Density Interfacial Ten Trip Blank_	Time sion	
Channel Depth Temp: Temp: Temp: SAMPLE COLL Method: Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/103 Methane/Ethan Ethene RSK175 COMMENTS: ** METALS FILE Calibration/Star	e/ QA/QC Label ELD FILTERED ndard: pH 4	Appearance: Analyte ID: Split	DuplPHOTO TAKEN	PRODUCT Visosity Density Interfacial Ten Trip Blank	Time	
Channel Depth Temp: Temp: SAMPLE COLL Method: Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/103 Methane/Ethan Ethene RSK175 COMMENTS: ** METALS F18	e/ QA/QC Label ELD FILTERED ndard: pH 4	E.C: * E.C: * Appearance: Analyte	Dupl. PHOTO TAKEN	Redox (eH): Redox (eH): Redox (eH): Analyte PRODUCT Visosity Density Interfacial Ten Trip Blank_	Time sion	



-3 DATE: 8-19-02
TIME Start : /2/5 End /3/5
<u>WIND: /∪</u> Air Temp. <u>≤</u> ⊘
IPLING X
neter:in.
c Water Level: 14,76 ft. BTOC
(Depth-W. L.)= 3x 1/31 / 85 gal.
perature °CE.C. (μmhos/cm)* pH*
3.4 124.4 8.56
2,4 /38.0 8.03
2,5 14/16 7.66
2.5 153 5 7.32
MP. CORRECTED @ 25C
coits: Class of (Eat (Mass)
pcity: cfs (Est./Meas.)
Hedox (eH):
cocity:Flow:cfs (Est./Meas.) *Redox (eH): Redox (eH):
Hedox (eH):
*
* Redox (eH): * Redox (eH): * Sheen + Petrol Oder Present
* Redox (eH): * Redox (eH): * Sheen + Petrol Oder Present
* Redox (eH): * Redox (eH): * Sheen + Petrol Oder Present
* Redox (eH): * Redox (eH): ** Redox (eH): ** Analyte Time
Redox (eH): * Redox (eH): ** Analyte Time PRODUCT
* Redox (eH): * Redox (eH): * Analyte Time PRODUCT Visosity
PRODUCT Visosity Density Redox (eH): Redox (eH): Redox (eH): Redox (eH): Product Pascal
PRODUCT Visosity Density Interfacial Tension
PRODUCT Visosity Density Interfacial Tension Redox (eH):
PRODUCT Visosity Density Interfacial Tension Trip Blank Table Predox (eH): Predox
PRODUCT Visosity Density Interfacial Tension Trip Blank DO M CO2 M
PRODUCT Visosity Density Interfacial Tension Trip Blank Table Predox (eH): Predox



SITE: Northead	Lape	Sample ID #:	71W 88-4	DATE: 8-18-02)	
SAMPLE TYPE	. NA			TIME Start : 1100	<u> End </u>	•
WEATHER:	SKY: P.C.	PRECIP:	\mathcal{P}	WIND:	_Air Temp. <u>50</u>	
GROUNDWATE		MENT X	SAMPLING			1
Casing Ht Ahov	e Ground: El	χ / * (FΤ	Diameter:	2 i	n	
Well Denth:	ルン * ft BT	OC (Meas Rec	Static Water Le	<i>2</i> i vel: <u>//,∌</u> o	H BTOC	Ì
Casing (C) = _	X Well	Outside Protec	tive	VOI	N. D100	
* + + ir + 7				3 x Parge =	73,0901	
ONE PURGE V	OLUME: 7.48	x (dia./24)^2 x 3	.14 x (Depth-W.	L.)=		
PURGING:	Gallons	Time	Temperature °C	CE.C. (µmhos/cm))* pH*]
METHOD	0	1100	4.4	602	7,35	Modelf
	5	1115	3,9	<u>43c</u>	7.01	Mod4
Bailer	7	1125	3.9	649	6,79	10. Mal
	10	//35	3.8	424	6.81	P. Cher
Ded. Pump	15	1200	3.8	621	6.78	Clearne
						ł
Suction_Pump						1
River Pemp						
(other)						_
			* TEMP. CORR	RECTED @ 25C	v	
				Sheen	Petel Ode Pa	A 4. 1
SURFACE WAT						_
Channel Depth		Width:	Velocity:		_cfs (Est./Meas.)	┪
•		E.C: *	_ pH:*	- , ,	- Desirement - Des]
Temp:		E.C: *	_ pH:*	Redox (eH):	A COMPANY	-
}				man apartus de la companya de la com		
OAMBLE COLL	FOTION			10 10 Secularity and		1
SAMPLE COLL	ECTION	A				-
Method:	Time	Appearance:	Time	Analida	Time o	1
Analyte Sulfate EPA300	Time	Analyte	Time	Analyte	Time	-{
Alkalinity EPA300		and the second second				
BTEX SW8260B		and the state of t				
GRO AK101		n de la companya de la companya de la companya de la companya de la companya de la companya de la companya de				
DRO/				PRODUCT		
RROAK102/103				Visosity		ļ
Methane/Ethan				Density		
Ethene RSK175	<u>. </u>			Interfacial Tens	ion	}
COMMENTS:	QA/QC Label II	D: Split	Dupl	Trip Blank	Other	
** METALS FIE			HOTO TAKEN #_	. TIP DIGITA		Ī
Calibration/Star) -	DO MA	CO2 NA	-
Decon complete		date		<u> </u>		1
BEMARKS:						┪
						7



		_Sample ID #:		_ DATE: <u>_ 8-19-1</u>	
SAMPLE TYPE:_			<u> </u>	_ TIME Start :	245 End 1330
WEATHER: S	SKY: <u>₽.C.</u>	PRECIP:	φ		Air Temp. <u>≤≎</u>
					_
GROUNDWATE	R: DEVELO	PMENT	_SAMPLING _	X	
Well Condition:	NEW				
Casing Ht. Above	Ground: NA	- Flusti (FT.	.`Diameter:	ر evel: <u>ا۵،۲۱</u>	_in.
Well Depth: <u>//</u>	, 14 Falling ft. B7	OC (Meas:/Rec	. Static Water L	evel: <u>/٥,५/</u>	_ft. BTOC
Casing $(C) = _{__}$	<u> </u>	_ Outside Protect	ctive	3x Almi	
				70 3.0	
ONE PURGE VO	DLUME: 7.48	x (dia./24)^2 x 3	3.14 x (Depth-W	. L.)=	<u>,0</u> gal.
PURGING:	Gallons	Time	Temperature ^c	CE.C. (µmhos/cr	
METHOD		1940	3.2	646	4,78
		1247	2.1	630	6,62
Bailer	2	1250	2.1	668	6.63
	3	1255	-2.	<u> </u>	leiles
Ded. Pump	<u>4 del</u>		<u></u>	466	6.62
	5 dv 1	730	2.1	645	6.61
Suction Pump					
Purcer Prings					
(other)		IA BUE TO HIGH Tubidihl			
		Width:	Velocity:	Flow:	cfs (Est./Meas.)
Channel Depth:		_Width:	Velocity:		_cfs (Est./Meas.)
Channel Depth:_ Temp: _		E.C. *	_ pH:*	Redox (eH):	The state of the s
Channel Depth:		E.C: *	pH:* pH:*	Redox (eH): Redox (eH):	
Channel Depth:_ Temp: _		E.C: * Primary	pH:* pH:*	Redox (eH): Redox (eH): hTuplicals	(split QA) (ms/ms)
Channel Depth: Temp: _ <u>Temp: _</u>		E.C: * Primary	pH:* pH:*	Redox (eH): Redox (eH):	(split QA) (ms/ms)
Channel Depth:_ Temp: _ Temp: _ SAMPLE COLLE	ECTION	E.C: * E.C: * Primary OQNE886	pH:*	Redox (eH): Redox (eH): hToplook rawes	(split QA) (ms/ms) 8GN304 P
Channel Depth:_ Temp:	ECTION	E.C: * E.C: * Primary OQNE886	pH:* pH:*	Redox (eH): Redox (eH): hToplook rawes	(split QA) (ms/ms) 8GN304 P
Channel Depth:_ Temp:	ECTION ((Te Flow) Despe	E.C: * Primary 62NE886 WAppearance:	pH:*	Redox (eH): Redox (eH): h Tuplicate KGW204, CANESO Sheen Petal ((split GR) (MS/MSD 8610304 P
Channel Depth:_ Temp:	ECTION (Ta Flow) Dispers	E.C: * Primary 62NE886 WAppearance:	pH:*	Redox (eH): Redox (eH): h Tuplicate KGW204, CANESO Sheen Petal ((split GR) (MS/MSD 8610304 P
Channel Depth:_ Temp: SAMPLE COLLE Method: Analyte Sulfate EPA300 Alkalinity EPA300	ECTION (Ta Flow) Dispers	E.C: * Primary 62NE886 WAppearance:	pH:*	Redox (eH): Redox (eH): h Tuplicate KGW204, CANESO Sheen Petal ((split GR) (MS/MSD 8610304 P
Channel Depth:_ Temp: SAMPLE COLLE Method: Bailer Analyte T Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B	ECTION (Ta Flow) Dispers	E.C: * Primary 62NE886 WAppearance:	pH:*	Redox (eH): Redox (eH): h Tuplicate KGW204, CANESO Sheen Petal ((split GR) (MS/MSD 8610304 P
Channel Depth: Temp: Temp: SAMPLE COLLE Method: Bailier Analyte T Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101	ECTION (Ta Flow) Dispers	E.C: * Primary 62NE886 WAppearance:	pH:*	Redox (eH): Redox (eH): h Tuplicate KGW204, CANESO Sheen Petal ((split GR) (MS/MSD 8610304 P
Channel Depth: Temp:	ECTION (Ta Flow) Dispers	E.C: * Primary 62NE886 WAppearance:	pH:*	Redox (eH):Redox (eH): Redox (eH): In Toplicak Chical Canif Si Sheen Petrol (Analyte	(split GR) (MS/MSD 8610304 P
Channel Depth: Temp: Temp: SAMPLE COLLE Method: Bailer Analyte T Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/103	ECTION (Ta Flow) Dispos Time (330	E.C: * Primary 62NE886 WAppearance:	pH:*	PRODUCT	(split GR) (MS/MSD 8610304 P
Channel Depth: Temp: Temp: SAMPLE COLLE Method: Bailer Analyte T Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/103 Methane/Ethane	ECTION (Ta Flow) Dispos Time (330	E.C: * Primary 62NE886 WAppearance:	pH:*	PRODUCT Visosity	(spl.+ Qx) (ms/ms) 8 GW304 Poler Time
Channel Depth: Temp: Temp: SAMPLE COLLE Method: Analyte Toulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/103 Methane/Ethane/ Ethene RSK175	ECTION (Ta Flow) Dispos Time (330	E.C.* E.C.* Primary ORNESSG Appearance: Analyte	pH:*	PRODUCT Visosity Density	(spl.+ QM) (ms/ms) 8 GW304 Time Sion Other St. 9
SAMPLE COLLE Method: Bailer Analyte T Sulfate EPA300 _ Alkalinity EPA300 _ BTEX sw8260B _ GRO AK101 _ DRO/ RROAK102/103 _ Methane/Ethane/ Ethene RSK175	CCTION (Tarlan) Department (330)	E.C.* E.C.* Primary ORNESS G WAppearance: Analyte SAMP ID: Split /340	pH:*	PRODUCT Visosity Density Interfacial Ten Trip Blank	(spl.+ QM) (ms/ms) 8 GW304 Time Sion Other St. 9
Channel Depth:_ Temp: SAMPLE COLLE Method:	CTION (TaFlow) Disposition (330) (A) QA/QC Label D FILTERED	E.C.* E.C.* Primary ORNESS G WAppearance: Analyte SAMP ID: Split /340	Dupl. 1335	PRODUCT Visosity Density Interfacial Ten Trip Blank	(spl.) (MS/MS) 8610304 Noter Time Sion Other Sin
Channel Depth:_ Temp:	CTION (Taflow) Days Time (330) (A/QC Label D FILTERED dard: pH 4	E.C.* E.C.* Primery ORNESS G Appearance: Analyte SAMA ID: Split 1340 D: Pt	Dupl. 1335	PRODUCT Visosity Density Interfacial Ten Trip Blank DO MA	(spl.+ QM) (ms/ms) 8 GW304 Time Sion Other St. 9



SITE: Northeast	Cane	Sample ID #:	mw 88-5	DATE: 8-18-02]
SAMPLE TYPE:		FIELD CREW:		TIME Start : 140		1
WEATHER:		PRECIP:	~1	WIND: 5	Air Temp. 50	Ī
GROUNDWATE		MENT X	_SAMPLING _			1
Well Condition:_		A - C / (FT	: `D:	2 :	 _	
Casing Ht. Abov						
				evel: <u>/੨,3</u> ੨ ft	. BTOC	
Casing (C) = * Div fo PONE PURGE VO	ic Cut - see s	iampling for form	Elevan frais	3 x Para 1 3 5	gal.	
PURGING:	Gallons	Time	Temperature ^c	°CE.C. (µmhos/cm)*	рН*	
METHOD	<i>Č</i>	1400	4,4	239,9	7.34	Newy Der IL
	1 dry	1410	3.9	<i>ब्ये</i> अने , ब्ये	7 24	Petrel Oden
Bailer	11 day	14/30	4,2	242,3	4,53	Very Slow
	2 day	1450	۷, ⊋	244 5	6,52	Clearing
Ded. Pump	2+ dry	15 30	4). a	की भीको , छ	6.58	Charley
Suction Pump						
Perger Pemp		<u> </u>		* Decision		
(other)						}
SURFACE WAT			+ Patrol O.			٦
				Flow:		'
<u> </u>			•	Redox (eH):		1
lemp:		E.C: *	pH:*	Redox (eH):		4
SAMPLE COLL	ECTION					
Method:		Appearance:			-	.]
	Time	Analyte	Time	Analyte	Time	
Sulfate EPA300		we're				7
Alkalinity EPA300		Marine and and and and and and and and and and				
BTEX SW8260B		Make a kar de little				
GRO AK101		a strange of				
DRO/	and the second			PRODUCT		
RROAK102/103				Visosity		
Methane/Ethane	e/ /	•		Density		
Ethene RSK175				Interfacial Tension	on	
COMMENTS:	QA/QC Label II	D: Split	Dupl	Trip Blank	Other	-
** METALS FIE			HOTO TAKEN			7
Calibration/Stan	dard: pH 4/,	7, 10 E	C V	DO MA	CO2 NA)	7
Decon complete	d: by DQ	dat	e 8/18/02			
REMARKS:						
i						1



SITE: Northeast Ca.	nc	Sample ID #:	MW 88-5	DATE: 8-19-	01
SAMPLE TYPE:					315 End 1520
WEATHER:		PRECIP:_			Air Temp
	D . DEVELO	DATENT	CANADLING	V	
GROUNDWATE Well Condition:		PMENI	SAMPLING		
		A - Flust- /F	T `Diameter	2	in
Well Depth: /4/	15 (FIGURE B	TOC (Mess) Be	c. Static Water	Level: 9.8	-"". ft RTOC
Casing (C) = \angle	/ Mell	Outside Prot	octive	Level	_11. D100
Casing $(C) = A$	AAGU	_ Outside Flot	ecuve	3x hours	2.5
ONE PURGE VO	DLUME: 7.48	x (dia./24)^2 x	3.14 x (Depth-	W. L.)=	1 - 1
PURGING:	Gallons	Time	Temperature	e °CE.C. (μmhos/ci	m)* pH*
METHOD	C	/315	4,7	237.8	7.40
	1 day	1320	3,3	23,5.9	7,33
Bailer	1+ dri	1500	3, 3	266	7,16
Ded. Pump					
·					
Suction Pump					
Person Form					
(other)					
7	Jib > 1,000 NTU		* TEMP. CO	RRECTED @ 25C	
À Ca	0 = NA > due	to tubidity			
SURFACE WAT					
Channel Depth:		_Width:		Flow:	
-			pH:*	Redox (eH):	,
Temp:_		E.C: *	pH:*		
		* * * * * * * * * * * * * * * * * * * *	. 1		
SAMPLE COLLE		02NE886			
Method: Bailey (teller Disposi	LeAppearance:		centifical petral oder	
	Time	Analyte	Time	Analyte	Time
Sulfate EPA300 _	1200				
Alkalinity EPA300 _					
BTEX SW8260B					
GRO AK101					
DRO/				PRODUCT	
RROAK102/103 _				Visosity	
Methane/Ethane	l l			Density	
Ethene RSK175 _	$\overline{}$			Interfacial Ten	ision
	QA/QC Label	ID: Split	Dupl	Trip Blank 1	Other
** METALS FIEL			PHOTO TAKEN		LN288 T8003
Calibration/Stand		_===	C	DO WA	CO2 MA
Decon completed		DQ da			
	extremely Slo		ent indication of		
HEMAKKS: E	Xtremely 310	w Kechaias V	ent indication of	permer water	



SITE: Northcast	Cape	_ Sample ID #: _	MW 88-6	_ DATE: <u>&-/9-0</u> ;	<u> </u>	
SAMPLE TYPE:	NA	_ FIELD CREW		_ TIME Start : //u	<u>ে</u> End <i> 230</i>	
WEATHER:	SKY: P.C	PRECIP:	φ	WIND:/0	_ Air Temp. <u>50</u>	
GROUNDWATE		PMENTX	_SAMPLING _			
Well Condition:_				<u></u>		
Casing Ht. Abov						
				.evel: <u>/ʊ,4o</u>	ft. BTOC	
Casing (C) =	<u> </u>	Outside Prote	ective	3 x / purge = 7	12.5gal	
ONE PURGE V	OLUME: 7.48	3 x (dia./24)^2 x	3.14 x (Depth-W	1. L.)=	<u>5</u> gal.	
PURGING:	Gallons	Time		°CE.C. (µmhos/cm		
METHOD		<u> // ~t</u>	4.2	420.8	7.45	Very Dail
	1 dry	1110	4, 3	454,7	7,16	011.5
Bailer	_ 2 dy	1/30	4, 3	420,4	- · &	<u> </u>
	2/4	1145	4,0	419.8	6.95	
Ded. Pump	4/14	1230	3.6	414.1	9.90	
	-					}
Suction Pump						
Perous temps	-					
(other)						
			* TEMP. COP	RRECTED @ 25C		
SURFACE WAT	TED	STRONG Pet	vol Oder			
Channel Depth		Width:	Velocity:	Flow:	cfc (Fet /Meas)	1
· ·	· <u> </u>		velocity pH:*			ļ
Temp:		_ E.C: *	pH:*	Redox (eH):		1
Temp.	=	L.O	Pi i	riedox (eri)		┪
			معتدي المعطارين	or "		
SAMPLE COLL	ECTION		Andrew See			
Method:		Appearance:	pl.			1
Analyte	Time	Analyte	Time	Analyte	Time	
Sulfate EPA300						
Alkalinity EPA300						
BTEX sw8260B						
GRO AK101						}
DRO/				PRODUCT		
RROAK102/103				Visosity		
Methane/Ethan				Density		
Ethene RSK175				Interfacial Tens	sion	
COMMENTS:	QA/QC Label	ID: Split	Dupl	Trip Blank	Other	
** METALS FIE			PHOTO TAKEN			7
Calibration/Star			C -	DO AA	CO2 M	
Decon complete		dat	te 8/19/02	,		
REMARKS:						
						1



		Sample ID #: _		DATE: 8-20	
SAMPLE TYPE:	Grab	FIELD CREW:	<u>D</u> P	TIME Start :	30 End 1315
WEATHER: S	SKY: P.C.	_ PRECIP:	Ø	WIND: /0	_ Air Temp. <u>50</u>
GROUNDWATE	R: DEVELOP	MENT	_SAMPLING	X	
Well Condition:_	NEW				
Casing Ht. Abov	e Ground: Fi	العال (FT	. Diameter:	2	in.
Well Depth: الكان	20 ft. BT	OC (Meas)/Rec	Static Water Le	evel: <u>/o, 43</u>	ft. BTOC
Casing (C) =					,
				3x pung ==	225gu/
ONE PURGE VO	DLUME: 7.48	x (dia./24)^2 x 3	3.14 x (Depth-W.	L.)=	gal.
		, _ ,	, , , , , , , , , , , , , , , , , , ,		
PURGING:	Gallons	Time	Temperature °	CE.C. (µmhos/cm	n)* pH*
METHOD	0	1230	4.4	411,0	7,52
		1240	3,2	393.9	7,5 3
Bailer	2 dry	/245	3,0	419.6	7,00
	2+ 12	1300	3.0	4/3,5	7,09
Ded. Pump			**************************************		iuluiu
200					
Suction Pump					
Cuotion i amp					
(other)					
TIKE	>1,00 NTO		* TEMP COR	RECTED @ 25C	
			I LIVII . OOI II		
До	M > 700 TLXE!!	į			
COL	MA > 700 TIXE!	į			
SURFACE WAT	ER		Velocity		cfs (Est /Meas.)
SURFACE WAT Channel Depth:	ER	Width:	•	Flow:	_cfs (Est./Meas.)
SURFACE WAT Channel Depth: Temp:	ER	Width:	_ pH:*	Flow: Redox (eH):	
SURFACE WAT Channel Depth:	ER	Width:	•	Flow:	
SURFACE WAT Channel Depth: Temp:	ER	Width:	_ pH:*	Flow: Redox (eH):	
SURFACE WAT Channel Depth: Temp:	ER	Width: E.C: * E.C: *	pH:* pH:*	Flow: Redox (eH):	
SURFACE WAT Channel Depth: Temp: Temp:	ECTION	Width: E.C: * E.C: *	рН:* рН:*	Flow: Redox (eH): _Redox (eH):	
SURFACE WAT Channel Depth: Temp: Temp: SAMPLE COLLE Method:	ECTION Bailer (Disposible	Width: E.C: * E.C: * [©] るNEなるのの	pH:*_ pH:*_ TC 6 Dark Gry, Veny	Flow: Redox (eH): Redox (eH): Tisked, Sheen C	clor (strong)
SURFACE WAT Channel Depth: Temp: Temp: SAMPLE COLLE Method: Teffm E	ECTION Bailer (Disposible)	Width: E.C: * E.C: *	рН:* рН:*	Flow: Redox (eH): _Redox (eH):	
SURFACE WAT Channel Depth: Temp: Temp: SAMPLE COLLE Method: 7-F/M D Analyte Sulfate EPA300	ECTION Bailer (Disposible	Width: E.C: * E.C: * [©] るNEなるのの	pH:*_ pH:*_ TC 6 Dark Gry, Veny	Flow: Redox (eH): Redox (eH): Tisked, Sheen C	clor (strong)
SURFACE WAT Channel Depth: Temp: Temp: SAMPLE COLLE Method: Tet/M D Analyte Sulfate EPA300 Alkalinity EPA300	ECTION Bailer (Disposible)	Width: E.C: * E.C: * [©] るNEなるのの	pH:*_ pH:*_ TC 6 Dark Gry, Veny	Flow: Redox (eH): Redox (eH): Tisked, Sheen C	clor (strong)
SURFACE WAT Channel Depth: Temp: Temp: SAMPLE COLLE Method: 7-1/m D Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B	ECTION Bailer (Disposible)	Width: E.C: * E.C: * [©] るNEなるのの	pH:*_ pH:*_ TC 6 Dark Gry, Very	Flow: Redox (eH): Redox (eH): Tisked, Sheen C	clor (strong)
SURFACE WAT Channel Depth: Temp: Temp: SAMPLE COLLE Method: 7eF/m 5 Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101	ECTION Bailer (Disposible)	Width: E.C: * E.C: * [©] るNEなるのの	pH:*_ pH:*_ TC 6 Dark Gry, Very	Flow:Redox (eH): Redox (eH): Trabid, Sheen, O Analyte	clor (strong)
SURFACE WAT Channel Depth: Temp: Temp: SAMPLE COLLE Method: Tet/M D Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/	ECTION Bailer (Disposible)	Width: E.C: * E.C: * [©] るNEなるのの	pH:*_ pH:*_ TC 6 Dark Gry, Very	Flow: Redox (eH): Redox (eH): Tixbid, Shren Canalyte	clor (strong)
SURFACE WAT Channel Depth: Temp: Temp: SAMPLE COLLE Method: 7-F/M D Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/103	ECTION Barker (Disposible 1300	Width: E.C: * E.C: * [©] るNEなるGW(pH:*_ pH:*_ TC 6 Dark Gry, Very	Titled, Sheen Consolity PRODUCT Visosity	clor (strong)
SURFACE WAT Channel Depth: Temp: Temp: SAMPLE COLLE Method: Tef/M 2 Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/103 Methane/Ethane	ECTION Barker (Disposible 1300	Width: E.C: * E.C: * [©] るNEなるGW(pH:*_ pH:*_ TC 6 Dark Gry, Very	PRODUCT Visosity Density	clor (strong) Time
SURFACE WAT Channel Depth: Temp: Temp: Temp: SAMPLE COLLE Method: Tet/M D Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/103 Methane/Ethane Ethene RSK175	ECTION Barker (Disposible Time /300	Width: E.C: * E.C: * Δ2 ΝΕδδ΄ GW (Appearance: Analyte	pH:*pH:*	PRODUCT Visosity Density Interfacial Tens	riov (strong) Time
SURFACE WAT Channel Depth: Temp: Temp: Temp: SAMPLE COLLE Method: 7	ECTION Barler (Disposible 7300) QA/QC Label II	Width: E.C: * E.C: * Ο ΑΝΕ δε GIW O Appearance: Analyte	pH:*_ pH:*_ Derk Gry, Very Time	PRODUCT Visosity Density Interfacial Tens	clor (Strong) Time sion Other
SURFACE WAT Channel Depth: Temp: Temp: Temp: SAMPLE COLLE Method: Tef/M E Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/103 Methane/Ethane Ethene RSK175 COMMENTS: C	ECTION Barler (Disposible) Time /300 QA/QC Label II	Width: E.C: * E.C: * らみNEととGWのAppearance: Analyte	Dupl.	PRODUCT Visosity Density Interfacial Tens	sion Other
SURFACE WAT Channel Depth: Temp: Temp: Temp: SAMPLE COLLE Method: Meth	ECTION Barler (Disposible) Time /300 QA/QC Label II LD FILTERED: dard: pH 4,-	Width: E.C: * E.C: * ORIGINAL PROPERTY OF THE	Dupl	PRODUCT Visosity Density Interfacial Tens Trip Blank 11e	clor (Strong) Time sion Other
SURFACE WAT Channel Depth: Temp: Temp: Temp: SAMPLE COLLE Method: Tef/M E Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/103 Methane/Ethane Ethene RSK175 COMMENTS: C	ECTION Barler (Disposible) Time /300 QA/QC Label II LD FILTERED: dard: pH 4,-	Width: E.C: * E.C: * らみNEととGWのAppearance: Analyte	Dupl.	PRODUCT Visosity Density Interfacial Tens Trip Blank 11e	sion Other



SITE: Northrast	Cape	Sample ID #:	MW 88-7	DATE: 8-19-62	
SAMPLE TYPE	<i>NA</i>	FIELD CREW	: <u>b</u> @	_ TIME Start : ///5	∑_End_ <i>[a</i> ⊋o_
WEATHER:	SKY: <u> </u>	_ PRECIP:	Φ	WIND:/0	Air Temp. 50
GROUNDWATE	NEW				
Casing Ht. Abov	e Ground: F	lush (F	Γ. Diameter:	2 ii	n.
Well Depth: 19	1,02 ft. B1	OC (Meas /Re	c. Static Water L	ii .evel: <u>/५,०/</u> f	t. BTOC
Casing (C) =					
ONE PURGE V	OLUME: 7.48	x (dia./24)^2 x	3.14 x (Depth-W	34 purat = 2 2. 1. L.)=	2 gal.
PURGING:	Gallons	Time	Temperature	°CE.C. (µmhos/cm))* pH*
METHOD		1115	4,5	403,2	6,97 Ve
	~^^	1118	4, 3,	424.4	Gible P
Bailer	4	1120	3.1	418.5	6.89 Ve
1		1125	2.7	406,7	6.81
Ded. Pump	10	11 4D	2.9	402.6	6.60
•	15	1155	20	402.8	6,71 C
Suction Pump	20	1205	2.9	400,0	6.76
Perger Pup.	25	1215	4 رائد	398.7	6.78
(other)					
SURFACE WA				RRECTED @ 25C	(5.00
Channel Depth					_cfs (Est./Meas.)
			•	Redox (eH):	I
l emp:		_ E.C: *	pH:*	Redox (eH):	
SAMPLE COLL	ECTION			and the second s	
Method:		Appearance:			
Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B		••			
GRO AK101					
DRO/	Little Comment			PRODUCT	
RROAK102/103				Visosity	
Methane/Éthan	e/			Density	
Ethene RSK175				Interfacial Tens	ion
COMMENTS:			Dupl	Trip Blank	Other
** METALS FIE	LD FILTERED): F	PHOTO TAKEN	#	
Calibration/Star	ndard: pH 4	<i>',7,/0</i> E	C /	_ DO ~A	CO2 NA
Decon complete		dat	te 8/19/02		
REMARKS: V	en Good Produce	w			



SIIE: Northiz				DATE: <u>8-20</u>	
SAMPLE TYPE:	Grab	_FIELD CREW	1: <u>D</u> 4	TIME Start :/	1330 End 1410
WEATHER: S	SKY:	PRECIP:	<u> </u>	WIND:0	Air Temp. <u>彡</u> ひ
GROUNDWATE	R: DEVELO	PMENT	SAMPLING	a X	
Well Condition:					
		Flush (F	T. Diameter:	2	in.
Well Denth: 19	ρά ft B	TOC (Meas) Re	c Static Water	er Level: <u>/ਮ,∞੨</u>	
Casing (C) =					_, 5100
	/	Outside i fot	3	x tores Vol: 22 2.5 gal	
ONE DUDGE V	71 1 1 1 1 A E + 7 A O	v (dia /04)\\0 v		n-W. L.)=	dD and
ONE FUNGE VO	JEOIVIE. 7.40	x (ula./24)*2 x	3.14 X (Depti	I-VV. L.)	<u>ov</u> gai.
PURGING:	Gallons	Time	Tomporeti	uro °CE C (umboolo	.m* n∐*
METHOD	Gallons	1320	7.8	ire °CE.C. (µmhos/c 3ه۴، ۹	m)* pH*
METHOD	2	1325	- 410 &13	40,4	7,40
Dailan	4	1330			7.12
Bailer		1340	2.1		
		<u> </u>	21		7.00
Ded. Pump			2.1	397.1	
	/0		2.1	398,6	6,75
Suction Pump					
Line 24					
(other)		····			
			" TEMP. C	ORRECTED @ 250	<i>'</i>
	ED				
SURFACE WAT		Width:	Valority		ofo /Est /Mass
Channel Depth:					cfs (Est./Meas.)
•			pH:*		
Temp:		_ E.C: *	pH:*	Redox (eH):_	The desiration of the second s
					The second secon
		02NE886	1107	- /	
SAMPLE COLLE			10007 (M	S/MSD ALL AN	·alytes)
		,	;	tal Oder	
	Гіте	Analyte	Time	Analyte	Time
Sulfate EPA300 _	1400				
Alkalinity EPA300 _	i				
BTEX sw8260B _					
GRO AK101 _					
DRO/	1			PRODUCT	
RROAK102/103				Visosity	
Methane/Ethane	/			Density	
Ethene RSK175	\checkmark			Interfacial Te	nsion
	QA/QC Label	ID: Split	Dupl	Trip Blank_8	
	LD FILTERED		PHOTO TAKE		
Calibration/Stan			C -	DO NA	CO2 M
Decon complete			te · 8 - 2		
			10 0 - 2		
ILIVIATINO. V	of Good to	ivery			



SITE: Nevthrast	Capi	Sample ID #:	MW 88-8	_ DATE: <u>_ &-/9-</u> 0	12
SITE: <u>Northand</u> SAMPLE TYPE:	NA	FIELD CREW	1: <u> </u>	_ TIME Start :	1230 End 1900
WEATHER:	SKY: P.C.	PRECIP:	Ø	WIND: <i></i> _	Air Temp <u>5</u> 2
GROUNDWATE		PMENT X	SAMPLING _		
Well Condition:_	NEA				
Casing Ht. Abov	e Ground: <u>£</u>	<u> (fush</u>	T.]Diameter:	2	_in.
Well Depth: /ك	<i>17</i> 0ft. B1	OC (Meas:/Re	c. Static Water L	_evel: <u>/4,57/</u>	ft. BTOC
Casing (C) =	Well	_ Outside Prote	ective	3 x purgit a	- 2-1
ONE PURGE VO	OLUMF: 7.48	x (dia./24)^2 x	3.14 x (Depth-W	۰ کی در ان کار کار کار کار کار کار کار کار کار کار	_
one ronal r	320WE. 7.10	x (d.d., 2 1) 2 x	O. I. I. X (Doptil I		<u>, gan</u>
PURGING:	Gallons	Time	Temperature	°CE.C. (µmhos/c	:m)* pH*
METHOD	0	1230	4,2		7,75
		1235		477.7	7,13
Bailer	2	1237	2,9	466.9	7.18
	3 14	1240	2.9	458,1	·
Ded. Pump		1245	6. 9	121/2	6,74
	4 1/	12.55	<i>□</i>		6,73
Suction Pump	520	1320		397H	7.06
Perges Ling	_ 4 del	/340		380,6 380,2	B. 35
(other)	7.17	1400	3,0	380,2	696
<u> </u>			* TEMP. COP	RECTED @ 250	
SURFACE WAT					
Channel Depth:		_ Width:	Velocity:	Flow:	cfs (Est./Meas.)
Temp:		_ E.C: *	pH:*	Redox (eH):_	
Temp:		_ E.C: *	pH:*	Redox (eH):_	
SAMPLE COLLI	ECTION				
Method:		Appearance:			
Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/	production of the second			PRODUCT	
RROAK102/103				Visosity	
Methane/Ethane	<u> </u>			Density	
Ethene RSK175				Interfacial Te	nsion
	QA/QC Label	ID: Split	Dupl.	Trip Blank	Other
	LD FILTERED		PHOTO TAKEN		
Calibration/Stan			C V	DO N4	CO2 NA
Decon complete		<i>, → , , 1</i> 5 da		20 /44	
	Trea, Very Tur	. / \	Petrol Oder		
	1 / 1	vier secret Gross.	18001 Jeny	······································	



		Sample ID #:	MW 88-8	DATE: 8-20-62	ζ
SAMPLE TYPE	: GRAB	FIELD CREW:_	<u></u>	TIME Start :/	120 End 15/5
WEATHER:	SKY: <u> ₽.C.</u>	PRECIP:	<u>ø</u>	WIND: 20	Air Temp _
GROUNDWATE		MENT	SAMPLING	Χ	
Well Condition:		1.6	`D:1		
Casing Ht. Abov	/e Ground:	(F1.	Diameter: <u>«</u>	vel:_ <i>/4.6</i> 0	In.
Casing (C) =	•			3x prog 2 = 2	
ONE PURGE V	OLUME: 7.48:	x (dia./24)^2 x 3	.14 x (Depth-W.	L.)= 7	gal.
PURGING:	Gallons	Time	Temperature °0	CE.C. (µmhos/cn	n)* pH*
METHOD	0	1420	2,9	380,1	499
	/	1430	2,8	374,9	6.83
Bailer	2 dN	1445	<i>2.8</i>	402,4	6,79
	24 011	1500	2.8	401,4	4,77
Ded. Pump	1				
Suction Pump					
Purger Fund					
(other)					
	Turbidity > 1,00	MTU me fidi	* TEMP. CORF	RECTED @ 25C	
SURFACE WAT	Toublith > 1000 Do not > Tou COZ NA > TOU	e (OND)			
SURFACE WAT	I E H		Velocity:	_Flow:	_cfs (Est./Meas.)
Channel Depth	I E H		Velocity: pH:*		
Channel Depth	:	Width:			
Channel Depth Temp:	:	Width: E.C: * E.C: *	pH:* pH:*	_ Redox (eH):	
Channel Depth Temp: Temp:	ECTION	Width: E.C: * E.C: *	pH:* pH:* γω σοδ	_ Redox (eH): _ Redox (eH):	
Channel Depth Temp: Temp:	ECTION	Width: E.C: * E.C: *	pH:* pH:* γω σοδ	_ Redox (eH): _ Redox (eH):	
Channel Depth Temp: Temp: SAMPLE COLL Method: Tet lon Analyte	ECTION Bala (Disposib) Time	Width: E.C: * E.C: *	pH:* pH:* γω σοδ	_ Redox (eH):	
Channel Depth Temp: Temp: SAMPLE COLL Method: Tetlor Analyte Sulfate EPA300	ECTION Bailer (Disposible	Width: E.C: * E.C: * OQNESSG	pH:*	_ Redox (eH): _ Redox (eH): Shoon, Prfol Od	lex
Channel Depth Temp: Temp: SAMPLE COLL Method: Tet lon Analyte	ECTION Bala (Disposib) Time	Width: E.C: * E.C: * OQNESSG	pH:*	_ Redox (eH): _ Redox (eH): Shoon, Prfol Od	lex
Channel Depth Temp: Temp: SAMPLE COLL Method: Tetlor Analyte Sulfate EPA300	ECTION Bala (Disposib) Time	Width: E.C: * E.C: * OQNESSG	pH:*	_ Redox (eH): _ Redox (eH): Shoon, Prfol Od	lex
Channel Depth Temp: Femp: SAMPLE COLL Method: Tetlan Analyte Sulfate EPA300 Alkalinity EPA300	ECTION Bala (Disposib) Time	Width: E.C: * E.C: * OQNESSG	pH:*	_ Redox (eH): _ Redox (eH): Shoon, Prfol Od	lex
Channel Depth Temp: Temp: SAMPLE COLL Method: Tet lan Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B	ECTION Bala (Disposib) Time	Width: E.C: * E.C: * OQNESSG	pH:*	_ Redox (eH): _ Redox (eH): Shoon, Prfol Od	lex
Channel Depth Temp: Temp: SAMPLE COLL Method: Tet/on Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101	ECTION Barry (Disposible) Time 1500	Width: E.C: * E.C: * OQNESSG	pH:*	_ Redox (eH): _ Redox (eH): Shown , Patrol Od Analyte	lex
Channel Depth Temp: Temp: SAMPLE COLL Method: Tetlor Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/	ECTION Barler (Disposible) Time 1500	Width: E.C: * E.C: * OQNESSG	pH:*	PRODUCT	lex
Channel Depth Temp: Temp: SAMPLE COLL Method: Tetlor Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/103 Methane/Ethane Ethene RSK175	ECTION Barlar (Disposible) Time /500	Width: E.C: * E.C: * CQNE 886 Appearance: Analyte	pH:*	PRODUCT	Time
Channel Depth Temp: Temp: SAMPLE COLL Method: Teffor Analyte Sulfate EPA300 Alkalinity EPA300 BTEX sw8260B GRO AK101 DRO/ RROAK102/103 Methane/Ethane Ethene RSK175 COMMENTS:	ECTION Barler (Disposible) Time /500 QA/QC Label I	Width:E.C: *	pH:*_ pH:*_ がいのと 	PRODUCT Visosity Density Interfacial Tens	Time
Channel Depth Temp: Temp: SAMPLE COLL Method: Tetlar Analyte Sulfate EPA300 Alkalinity EPA300 BTEX sw8260B GRO AK101 DRO/ RROAK102/103 Methane/Ethane Ethene RSK175 COMMENTS: ** METALS FIE	ECTION Bandar (Disposibly) Time 1500 QA/QC Label I ELD FILTERED	Width: E.C: * E.C: * CQNESSO Appearance: Analyte D: Split_ : Ph	pH:*pH:* pH:* jw のと Sire Sirey, Sire Time	PRODUCT Visosity Density Interfacial Tens Trip Blank 5/15	sion
Channel Depth Temp: Temp: SAMPLE COLL Method: Tet lan Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/103 Methane/Ethane Ethene RSK175 COMMENTS: ** METALS FIE Calibration/Stan	ECTION Ballar (Disposible) Time /SOU QA/QC Label I ELD FILTERED idard: pH 4,	Width: E.C: * E.C: * OQNE 886 Appearance: Analyte D: Split PH 7, 10 EC	Dupl.	PRODUCT Visosity Density Interfacial Tens Trip Blank %/15	Sion
Channel Depth Temp: Temp: SAMPLE COLL Method: Tet or Analyte Sulfate EPA300 Alkalinity EPA300 BTEX sw8260B GRO AK101 DRO/ RROAK102/103 Methane/Ethane Ethene RSK175 COMMENTS: ** METALS FIE	ECTION Ballar (Disposible) Time /SOU QA/QC Label I ELD FILTERED idard: pH 4,	Width: E.C: * E.C: * CQNESSO Appearance: Analyte D: Split_ : Ph	Dupl	PRODUCT Visosity Density Interfacial Tens Trip Blank %/15	sion



SITE: Nexthea	if Cape	Sample ID #:	mw 88-9	DATE: <u> </u>		
SAMPLE TYPE	- NA	FIELD CREW:_		TIME Start: 153	○ End 1450	
WEATHER:	SKY: P.C.	PRECIP:	<i>\$</i>	WIND:20	Air Temp. 50	
		MENT X	CAMPLING			
	ER: DEVELOF	MENI	SAMPLING			
Well Condition:		Should IST	D'	2 :		
Casing Ht. Abo	ve Ground: 7	(FT.)	Diameter:	<u>2in</u>	i	
		OC (Meas:/Rec.		vei: 20144 π	. BTOC	
Casing $(C) = $	weii	Outside Protec	tive	3x Dungs & 6	, , /	
ONE PURGE \	/OLUME: 7.48	x (dia /24)^2 x 3	14 x (Denth-W	L.)= <u>7</u>		
one, one.	, 020	x (didi/2 i) 2 x di	TO THE STATE OF TH		941.	
PURGING:	Gallons	Time	Temperature °C	E.C. (μmhos/cm)	<u>'</u> pH*	!
METHOD	C	1530	5,0	142.3		Dirk Br
		1534	3,3	119,7	7.54	
Bailer	4	154c	3, 3	16000	7,23	
	5	1543	<u> </u>	10/11	7.09	
Ded. Pump	7	1547	2.8	91, 7	6.78	
·	9	1550	2.3	<i>8a.</i> □	6154	
Suction Pump	/o	1555	2.3	85 E	6,46	, ,
Perget Pump	15	1605	2.3	<u> </u>	6,45	Charley Still To Ad (
(other)	30	1620		18 4 18 2	7.40	54117
SURFACE WA Channel Depti	n:			_Flow:		
Temp:		_ E.C: *	pH:*	_ Redox (eH):		
Temp:		_E.C: *	_pH:*	_Redox (eH):		
					j	
0.1.401 = 0.01	FOTION		, market	and the second s		1
SAMPLE COLI Method:	LECTION	Appearance:				ł
Analyte	Time	Analyte	Time	Analyte	Time	Ì
Sulfate EPA300						1
Alkalinity EPA300						
BTEX SW8260B						
GRO AK101						
DRO/				PRODUCT]
RROAK102/103	8			Visosity		
Methane/Ethan				Density		1
Ethene RSK175				Interfacial Tensi	on	1
	QA/QC Label	D: Split	Dupl	Trip Blank	Other_	
	ELD FILTERED		OTO TAKEN #			Ī
Calibration/Sta		1,/0 EC		DO MA	CO2 MA	7
Decon complet		date		· · · · · · · · · · · · · · · · · · ·		7
	Jest Producer at			No Sheer Ton Tu	bidity Vs. Dail	7
		er locations.				7
						



SITE: Northeas	1 Cape	_Sample ID #: _	MW 88-9	DATE: 8-21-0	2
SAMPLE TYPE	: Girab	_ FIELD CREW:	<u> </u>	TIME Start : _ /436	End 1520
WEATHER:	SKY: Nice (Clear	PRECIP:	Ø	_ WIND: <i>ವ</i> ಲ	Air Temp. 50
		7			
GROUNDWATE	ER: DEVELO	PMENT	SAMPLING _	Χ	
Well Condition:					
Casing Ht. Abov	ve Ground: <i>F</i>	<u>-/ush</u> (FT.	Diameter:	<i>2</i> in	
Well Depth:	<u>24,45 </u>	TOC (Meas)Rec	. Static Water L	_evel: <u> </u>	BTOC
Casing (C) = _	<u> </u>	_ Outside Protec	ctive	3x purge 7 2gal	1
				3x pringe 2 agui	
ONE PURGE V	OLUME: 7.48	x (dia./24)^2 x 3	5.14 x (Depth-W	V. L.)= <u>・チ</u>	gal.
				,	
PURGING:	Gallons	Time		°CE.C. (xmhos/cm)*	
METHOD		1430	4.6	92.9	8.00
		1435	2,7	88.1	7.12
Bailer	Z	<u> 1440</u>	2, 4	87.1	7,4//
	3	1442	2.3	85,4	7.15
Ded. Pump		1445	2 .3	54,8	· ·
(1450	2.3	E4.7	6.3
Suction Pump		/500	2,3	81.9	4:00
Purger Po-p					
(other)					
•	Tubothy 220		* TEMP. COF	RRECTED @ 25C	
	DO 4,1 m				
SURFACE WA					=
Channel Depth			_ Velocity:	Flow:	ots (Est./Meas.)
Temp:	manufacture and the second sec	E.U: 1		Redox (eH):	
Temp:		_ E.C: *	pH:*	Redox (eH):	
					ļ
CAMPLE COLL	CCTION	OZNE	EX GUIDAG		Ì
SAMPLE COLL				HEPAL OF AN AND	
1		Appearance:			T:
Analyte	Time 1400	Analyte	Time	Analyte	Time
Sulfate EPA300	<u> 1900 </u>				
Alkalinity EPA300					
BTEX sw8260B					
GRO AK101				DDODUOT	
DRO/				PRODUCT	3
RROAK102/103				Visosity	
Methane/Ethan	e/ /			Density	
Ethene RSK175	<u> </u>	ID 0 12		Interfacial Tensic	
	QA/QC Label		Dupl	Trip Blank § 19-0	
** METALS FIE			HOTO TAKEN		02NE88 TBC0
Calibration/Star		17,10 EC		DO WA	CO2 NA
Decon complete		·			
REMARKS:	Jan Turbidity	unlike any of 40	hy other Miles	sevici walls, No sho	en, No Oder
1					



	1 Capt	Sample ID #: _	111W 08-10	DATE: 8-2002	
SAMPLE TYPE	MA	FIELD CREW:	D Ø	DATE: 8-26-02 TIME Start : 143	© End /2000
WEATHER:				WIND: 10	
GROUNDWATE	R: DEVELOP	MENT X	_SAMPLING		
Well Condition:	NEW				
Casing Ht. Abov	ve Ground: <i>FU</i>	ιυ <u>λ.</u> (FT	. Diameter:	<u> </u>	1.
Well Depth: 20	<u>, ಉ</u> ft. BT	OC Méas./Rec	. Static Water Le	evel: <u>24,29</u> f	t. BTOC
Casing (C) = _	X Well	_ Outside Prote	ctive		
				2× punge ≈ 3/4 go L.)=	gal.
ONE FORGE V	OLOWIE. 7.407	x (dia./24) 2 x c). 14 X (Deptil-44.		gai.
PURGING:	Gallons	Time	Temperature °	CE.C. (µmhos/cm)	* pH*
METHOD	6	1630	3, 4		6,02
	0,5 dy	1700			
Bailer	0,51 dn	1800	No Worter / ak	and 2 cm of Mul	
Ded. Pump					
·					
Suction Pump	-				
(other)					
			* TEMP. CORI	RECTED @ 25C	
	\geq	WIK Gray, Muldy.	Silly, Sheen, Petro	of Oder.	
SURFACE WA	TER		<i>'</i>		
				Flow:	
				_ Redox (eH):	
Temp:		E.C: *	pH:*	Redox (eH):	
			_		\
SAMPLE COLL	ECTION				
Method:		Appearance:			
Method: Analyte	ECTION	Appearance: Analyte	Time	Analyte	Time
Method: Analyte Sulfate EPA300			Time	Analyte	Time
Method: Analyte Sulfate EPA300 Alkalinity EPA300			Time	Analyte	Time
Method:Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B			Time	Analyte	Time
Method:Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101			Time		Time
Method:Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/			Time	PRODUCT	Time
Method:Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/108	Time		Time	PRODUCT Visosity	Time
Method:Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/108 Methane/Ethane	Time		Time	PRODUCT Visosity Density	
Method: Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/108 Methane/Ethan Ethene RSK175	Time	Analyte		PRODUCT Visosity Density Interfacial Tensi	on
Method:	Timee/ QA/QC Label I	Analyte D: Split	Dupl	PRODUCT Visosity Density Interfacial Tensi Trip Blank	
Method: Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/103 Methane/Ethan Ethene RSK175 COMMENTS: ** METALS FIE	Time ————————————————————————————————————	D: Split P	Dupl HOTO TAKEN #	PRODUCT Visosity Density Interfacial Tensi Trip Blank	on Other
Method: Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/108 Methane/Ethan Ethene RSK175 COMMENTS: ** METALS FIE Calibration/Star	Time ———————————————————————————————————	D: Split Pi	Dupl HOTO TAKEN #	PRODUCT Visosity Density Interfacial Tensi Trip Blank	on
Method: Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/108 Methane/Ethane Ethene RSK175 COMMENTS: ** METALS FIE Calibration/Star	QA/QC Label I ELD FILTERED ndard: pH 4	D: Split : Pl	Dupl HOTO TAKEN #	PRODUCT Visosity Density Interfacial Tensi Trip Blank DO A	on Other CO2 ^A
Method: Analyte Sulfate EPA300 Alkalinity EPA300 BTEX SW8260B GRO AK101 DRO/ RROAK102/108 Methane/Ethan Ethene RSK175 COMMENTS: ** METALS FIE Calibration/Star	QA/QC Label I ELD FILTERED ndard: pH 4	D: Split Pi	Dupl HOTO TAKEN #	PRODUCT Visosity Density Interfacial Tensi Trip Blank DO	on Other CO2 ^A



SITE: Northan	1 Cape	Sample ID #: _	MW 88-10	DATE: 8 -	21-00
SAMPLE TYPE	: Grah	_ FIELD CREW:_	<u>b</u> p	_ TIME Start :	1400 End 1740
	SKY: Nec Day	PRECIP:			Air Temp. <u><</u>
	Char Pi	Ċ.		_	
		PMENT	SAMPLING _	<u>X</u>	
Well Condition:	NEW				
Casing Ht. Abov	ve Ground: <i>F</i>	1041 (FT.	Diameter:	2	in.
Well Depth:	<u>የፈ. </u>	TOC (Meas!/Rec	. Static Water L	evel:_ <i>a4,9</i> }	ft. BTOC
Casing (C) = _	Well	_ Outside Protec	ctive	3x proj. 2	0.5 g/
ONE PURGE V	OLUME: 7.48	x (dia./24)^2 x 3	.14 x (Depth-W	. L.)=	gal.
PURGING:	Gallons	Time	Temperature °	CE.C. (µmhos/d	cm)* pH*
METHOD		1400	3,4	4221	7.66
			/ / / / / / / / / / / / / / / / / / / 	1 7	
Bailer				1 for Sample	
D 1 D		<u> Well 13 C</u>	escatially day	<u></u>	
Ded. Pump			<u> </u>	<u></u>	
Suction Pump					
Suction 1 dinp					
(other)		-			
	Tubidity >1	ON ATU .	* TEMP. COR	RECTED @ 250	<u> </u>
	DO MA	Too Table			
SURFACE WA	TER ' ''' (
Channel Depth	· <u>····</u>	width:	Velocity:	Flow:	cfs (Est./Meas.)
		_ E.C: *	_ pH:*	Redox (eH):_	and a supplied to the supplied
Temp:		_ E.C: *	pH:*	Redox (eH):_	
SAMPLE COLL	ECTION	OR N	ESS GW010		
Method: Tellor	a, the same and th	Appearance:	Very Terbiel al	most invided, negliar	ble recharge
Analyte	Time	Analyte	Time	Analyte 22	Time
Sulfate EPA300	1400				
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/				PRODUCT	
RROak102/103	7			Visosity	
Methane/Ethan	e/			Density	
Ethene RSK175	04/001 454	ID: 0:-14	D	Interfacial Te	
COMMENTS:	QA/QC Label		Dupl		<u>>-19-62-Other</u>
Calibration/Star	ELD FILTERED ndard: pH 4		HOTO TAKEN #	DO NA	CO2 NA
Decon complete		D co date		ער סט	002 /**
IREMARKS:				initial bailer m	XIMINET CA 1-2 moders
REMARKS: Muddy water an	Very Slow in	Obtaining Sample	Volume. At for	initial bailer mo	xumen of 1-2 inches

		<u> </u>												
2002 Northeast (SOIL				WATER					
PROM: MWH 4100 Spenard f Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Drehe	Road 7 er	TO. Columbia Analytical Services 1317 South 15th Avenue Kelse, WA 98626 Phone: 360-377-7222 Fax: 360-636-1068 Arin. Mingta Lin		RORRO AKIBAZIIOA, AH SIM SWEZIPC, SW 1982, SAG Ziar, Chemium SW6930, OC Dy lab SOP	BTEX SW2160B	GRO AKIOI	****	Sulsae EPA 300 Alealiniy EPA 300	STEX SWELOB Gro. Actet	felbane, Elbane, Elbene RSK 175	DRO/RRO AK182/183	30 day Turn-Around-Time COELT EBD Hardcopy Deliverable BOA Option 2 Please FAX a copy of COC and Sample Ch Gerald Archibid at (#917)5-25-55 Sandra Kimbrell at (997) 353-7070	eck-in form to: Phone: (907)753-2691	
Sumpler a Signatur Student	mit (Nelland dine	d					er de la company			3,212	And June		
Date 2007 T	dine (Sample ID	MATE AND	ioni Containers	10.1				Tit said	VA VAL	Voxvad	, benies		
8/14 15		OZNERASB OCI	S	3	Х			Х					MS/MSD	
8/14 160		CANEXXXB OOL	S	2	χ			Χ	ļ	İ				
8/14 164		CHINE XXXB GOS	5	2	Х			X						
8/14 170		DANE 883B OCH	5	_ Z	λ			X			ļ			
8/15 115		03NE 885B 005	S	2	X			<u> </u>						
8/17 //10		CANE 883B 506	5	2	Χ			X				ļ <u>.</u>		
8/11 132		52NE 885B OCT	5	2	X								<u> </u>	
8/17 133		0348 882B 008	5	2	Х			<u> </u>					ļ	
8/17 200		600 BCRR3NED	5	2	_X			_ X				ļ		
8/17 200		OZNE 883B010	٤	2	X			X		L		ļ		
8/17 182		CHINE & &SB 021	5	2	X			_X						
8/17 184		DANEXXSB022	5	1	X									
8/17 120	10 1	OZNESISBACL	5	_2_	_ X			X	l <u></u>	<u></u>				
Relinquished by:	Paid		Date 8/19/0.	∠	Shipped Via Afas	ka Airlines G	oldstreak Air B	" 4	774	280	23			
Received for Laborate	tory by		Date		Cooler Temperar	ire							°C	Laboratory Notified
			Time		Upon Arrival									Call or Faxed

1850	ortheast Cape 574.260120				SOIL				WATER					
ROM:	Spenard Road JK 99517 33 8-8884	TO: Columbia Analytical Services 1317 South 13th Avenue Kelto, WA 91626 Phone: 160-577-7222 Fax: 360-561-068 Atm: Mingta Lin	4		COELT EDD Hardeapy Dell S Please FAX a Gerafd Archib						30 day Turn-Areund-Time COELT EDD Hardeapp Deliverable BOA Option 2 Please FAX a copy of COC and Sample Ch Gerald Archibol ast (907) 353-7070 Sandra Kimbrell at (907) 353-7070	eck-in form to: Phone: (907)753-2691		
	r's Signature	Willes Low	#		25525		G A			1 to	¥	d W		Fig. 1
Thurst	a Quit	(Somme	<u> </u>	-		4.575				77.77				
									20:10		1 1 N 1 T			
8/18	1145	CRNESSECII	5	2	X		AND THE COLUMN ASSESSMENT	X					TO THE RESIDENCE OF THE PERSON	
8/18	1155	02NE 8856012	S	2	X			X						
8/18		CHNESSSBO13	5	2	X			X						
8/18		CHICE SASBOIL	S	2	X			X						
-					1									
			 		1									
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					11									
inquisted of	as Quit	1	Date #/19/2 Time 0830	12	Shipped Via Alas	ka Airlines Ge	oldstreak Air Bi	11#	4974 -	2803				
	Laboratory by:		Date		Cooler Temperatu	re							*C	Laboratory Notified
			Time		Upon Arrival									Call or Faxed

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2002 Northeast Cape 1850574.260120				soit				WATER					
FROM: MWH 4100 Spenard Road Anchorage AK 99517 (007)248.8883 Fax (907) 248.8884 ATTN Johanna Dreher	TO. Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax: 360-561-1068 Attn: Mingta Lin			,6620,						RSK 175		30 day Turn-Around-Time COELT EDD Hardcopy Deliverable BOA Option 2 Please FAX a copy of COC and Sample C	
		n		DRORRO AK102103, PAH SIM SW8270C, PCB SW8082, Lead, Eliec, Chromium SW6910, TOC by lab SOP	BTEX SW8260B	GRO AK101	Spare	Sufrice EPA 300 Alkalinity EPA 300	BTEX SW82608 GRO AK101	Ethene	DRO'RRO AK102/103	Gerald Archibald at (907) 53-2636 Sandra Kimbrell at (907) 353-7070	Phone: (997)753-2691
Sampler's Signature	& Boring W	Here A Ele	A						Signal				
Date 200 150		F. J. W. 13.50		355					Volume				
8/14 1530	OZNESSE OCI	S	6		×	×						MS/MSD	
8/14 1600	CZNEWSB OOL	S	2		٨	×							
8/14 1645	DYNE 883B GO3	5	2		X	Х							
8/14 1700	DANE 883B 004	S	2		X.	Х							
8/15 1155	COO BOOK 34ED	_ S	2		Х	X							
8/17 /110	CANE 885B COG	5	2		χ	X							
8/11 1320	BANE 883B 00+	S	2		X	_ 🗶							
8/17 1330	OZNE YXSBOOK	S	2		Х	Χ						L	
8/17 2000	02NE883B009	5	2		Χ	X							
8/17 2030	OANE 883B010	٤	2		X	Χ							
8/17 1820	OdNE 885B 021	5	2		Χ	Χ							
8/17 /840	OZNEXXSBOZZ	5	Z		Х	Х							
8/17 1200	OZNESSSZOU	5	2		Х	Х							
Relinquished by Jaugla		Date 8/19/	02 30	Shipped Via Alas	ka Airlines G	oldstreak Air B	iii* 40	774 a	27/1				
Received for Laboratory by:		Date		Cooler Temperan	ıre							•c	Laboratory Notified
		Time		Upon Arrival									Call or Faxed

2002 Northeast Cape 1850574.260120				SOIL				WATER					
ROM: 4 100 Spensrd Road Anchorage AK 99517 907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher	TO: Columbia Analytical Services 1317 South 13th Avenue Ketso, WA 98626 Phone: 360-577-7222 Fax: 360-636-(068 Atm: Mingta Lin											38 day Turn-Around-Time	
			DROPRRO AKIBZI183, PAH SIM SW8270C, PCR SW8081, Lead, Zinc, Chromium SW6020, TOC by lab SOP	3TEX SW3260B	GRO AKIDI	Spare	Sulfate EPA 300 Alkalinity EPA 300	BTEX SW8260B GRO AK101	dethane, Ethane, Ethene RSK 175	DRO/RRO AK102/193	Sandra Kirobrell at (947) 353-7070	:π?53-2 ⊕ 1	
Sarapler's Signature	Wollenson	and											
Dauglas Vus	1 Common		The second				1111 242 8 23						
	Carlo mentica	7 (14)							NAME:	NO.		and the second second second second	
8/18 1145	CZNESSSON	S	2		λ	Χ							
8/18 1155	CANE 8XSBOIZ	S	2		Χ	Х							
	OZNESKSBO13	5	2		Х	Χ							
	OZNE SYSBOIL	5	2		Χ	X							
8/14 2100	02 NE 88TB 001	Š	2		Χ .	X							
												-	
linquished by:	as Quit	Date 8/19	107	Shipped Via Alas	ka Airlines G	oldstreak Air Bi	" 4	974 =	2711				
eived for Laboratory by:		Date		Cooler Temperatu	ire							*C Laborato	ry Notified
		Time		Upon Arrival								Call	or Faxed



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	heast Cape 4.260120				SOIL				WATER					
FROM: MWH 4100 Spc Anchorage AK (907)248-8883 Fax (907) 248-8 ATTN: Johanna	enard Road 99517 884	TO: Columbia Analytical Services 1317 South 13th Avenue Ketso, WA 98626 Phone: 360-577-7222 Fax: 360-616-1068 Atm: Mingta Lin			ď						175		30 day Turn-Around-Time CORLT EDD Hardcopp Deliverable BOA Option 2	
					DROKRO AKIOZIO), PAH SIM SW8270C, PCB SW803, Lrad, Zinc, Chromium SW6020, TOC by Iab SOP	BTEX SW8260B	GRO AK101	Spare	Sulfate EPA 300 Alkalinity EPA 300	BTEX SW8160B GRO AK181	Methane, Ethane, Ethene RSK 175	DRORRO AK102/103	Please FAX a copy of COC and Sample Ch Gerald Archibald at (907)753-2636 Sandra Klimbrell at (907) 353-7070	eck in form 10: Phone: (407)753-2691
Sampler's Sauglas	Signature Quiet	Bonnibil	ear A. Olin	a		7.3								
Date 2002	Tune	Sample ID	Mante	te.	2.60					100 Tal	認為			Part Avenue
8/17	1400	DANE 88 6WOO!	W	8					Х	X	X	X		
8/17	1760	CANEXX GOOD 2	W	8					X	X	×	X		
	2100	DANESSTBOOL	W	3	d					X				
	2100	OZNESSEBOOI	W	84	<u> </u>					X		_X		
8/17	2100	OZNE 88 EB 00 Z OZNE 88 EB 00 3	W	5	ļ					X		X	L	
8/18 0	2100	DENE 88 E B 003	W	5						_ X		X		
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		L	2/2/		611 110 11			l						T
lelinguished by	Yaugla	Quil	Date 8/19/0	·	Shipped Via Alas	ika Atriinės Gi	oldstreak Air Bi	"* 4º	174 2	7722				
eceived for La			Date		Cooler Temperat	ure				<u> </u>			·c	Laboratory Notified
			Time		Upon Arrival									Call or Faxed

2002 Northeast Cape 1850574,260120			·· - ·····	SOIL				WATER					
FROM: MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN. Johanna Dreher	TO: Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax: 360-636-1068 Attn: Mingta Lin			DROZRO AK102103, PAH SIM SW8270C, PCB SW8082, Left Zinc, Chronium SW6030, TOC'by ba SOP	BTEX SWEEGUB	GRO AKI01	Spare	Sulfate EPA 300 Alkalinity EPA 300	BTEX SWEZGB GRO AKIG	efechane, Elhane, Elbene RSK 175	DRORRO AKIBULB3	30 day Turn-Around-Tirue COSLT EDD Hardcopy Deliverable BOA Option 2 Please PAX a copy of COC and Sample C Gerald Archibald at (907)753-836 Sandra Kimbrell at (907) 353-7070	heck-in form to: Phone: (997)753-2691
Sampler's Signature	f			I Clearglass, unpreserved a		Ambor a las	Allegia Marenes	auguste ver	Visit in a	At so as an	ocunt Andre in House		
Sauglas Qui	Sample ID	Matrix	(Coataberr	Sozial .	a de des		1	i Diebonie	Vox Van	VOA VIAIN			
8/19 1230	02NE886W003	W	5		12.36.56.1.1.61	Andrew State of the State of th	27405 (772	1. 8 N. 2. 2. 3 S. 2.	X	×	er og green er og	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4
8/19 /400	DANESSO WOOT	W	5						×	×			
8/20 1300	OZNESSOW005	W	5						×	X			
8/20 1300	ODNESS GWOOL	W	5						×	X			
8/20 1400	CANESS GWOD 7	W	15						×	X		MSIMSD	
8/20 (500	OZNESSGWOOS	W	860						×	X		MS/MS/E BUD	
8/19 1410	OZNESSOW 204	W	5						X	Х			
8/19 2100	DANESSTB 103	W	3						X				
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<u> </u>	 												
		ļ			-							· · · · · · · · · · · · · · · · · · ·	
Religionished by		Due Flori	12	Shipped Via Ala	iko Airlinas Ga	Idenach Air Bil	1.0	311 0	- 25				
Relinquished by Ou	<i>it</i>	Date \$ 21/ Time 0 80%)	ompped via Ala:	oka Allillies Go	HOSTER AIL BI	" 47	74 2	733		İ		
Received for Laboratory by:		Date		Cooler Temperat	arc							°C	Laboratory Notified
		Time		Upon Arrival									Call or Faxed

														
185057	theast Cape 74.260120				SOIL				WATER					
FROM MWH 4100 Sp Anchorage AK (907)248-8883 Fax (907) 248-4 ATTN: Johanni	99517 8884 a Drelier	TO: Columbia Analytical Services 1317 South 13th Avenue Ketso, WA 98626 Phone: 360-577-222 Fax: 360-636-1068 Attn: Mingta Lin			PROTREO AKIO2103, PAH SINA SWR270C, PAH SINA SWR270C, Land, Zinc, Chronium SW6020, TOC by lab SOP	BTEX 5W8260B	GRO AK101	Spare	Sulface EPA 300	Brex sweede Groakini	Methane, Ethane, Ethene RSK 175	DRO/RRO AKIUVIU3	30 day Turn-Around-Time COELT EDD Hardcopy Deliverable BOA Option 2 Please FAX a copy of COC and Sample O Gerald Archibale at (907) 353-7070 Sandra Kimbrell at (907) 353-7070	:heck-in form to: Phone: (907)753-2691
Jaugh	Signature Qual Tithe	Į.			i Cicargiass, unpreserved a	l'Clear glass de Wilkscott	LAmber glass wegarrogane iMcOH	(Close grass Outpreserved)	Plastic * dispreserved	Greathiles 2 HCL	2% 40 milwr	Amber Planson HCL	Out	A CONTRACTOR OF THE PARTY OF TH
Date 2002	Tithe	Sample ID ONE 886 WCO 3	Matrix	Total Containers	802 jar	162.65	7.07 (195	a lozjaří	L'IL bottle	VOX Vis	VOA Vials	bottlesse		
8/19	1230	CONESSGNC03	W	5						X	X			
	1400	02NE886 W004	W	5						X	×			
8/19	1500	OANESSOWOOS	W	5						×	Х			
8/20	1300	BANESSON OCG	W	5 5						Х	Х			
	1400	CANESSGW007	W	15						Х	X		MS/MSD	
8/20	1500	OZNESSGWOOS	W	1945) 5						×	X		DE STEMPENT	
8/19	1410	OZNESSOW 204	W							X	X			
8/19 -	2100	OANESSTB 003	W	3						Х				
				-										
Relinguished by Maryla Received for Lai	is Que	+	Date \$/41/ Time 0 800	<i>d ⊋</i>	Shipped Via Alas	ka Airlines Go	ldstreak Air Bil	" 49	74 2·	755	·			
Received for Lai	boratory by:		Date		Cooler Temperatu	re							°C	Laboratory Notified
			Time		Upon Arrival									Call or Faxed

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	fortheast Cape 0574,260120				SOIL				WATER					
FROM.	Spenard Road kK 99517 83 8-8884	TO. Columbia Analyrical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-377-7222 Fax: 360-636-1068 Atm: Mingta Lin			OROCREO AKIRZIGI, RAH SIMKSWEZPE, SENSER, LASA CENTREM SW623, TOC by Ish SOF	BTEX 5W8260B	GRO AKIBI	Spare	Sultae EPA 300 Allaliniy EPA 300	BTEX SW8260B GRO AKIO1	dethane, Ethans, Ethene RSK 175.	DRO'RRO AKIGZIG3	30 day Turn-Around-Time COBLT BDD Hardcapy Deliverable BOA Option 2 Please FAX a copy of COC and Sample Check-in form to: Gerald Archibald at (907) 353-2636 Phone: (907)753-2691 Sandra Kimbrell at (907) 353-7070	
	las Quis	f .		S									en e	
Date 2002	Time	Sample ID O2NE88GWC03	Matrix	(Total Containers	f Sor jar			4.1	AUGUST.	VOX.	VOAVIE			7-6
8/19	1230	02NE886W003	W	5						х	X			
8/19	1400	02NE886 W004	W	5						X	×			
8/19	1500	ODNESSOWOUS	W	5						×	X			
8/20	1300	DANESSONOCG		5 5						*	Х			
8/20	1400	OJNESSGW007	W	15						×	X		MS/MSD	
8/20	(500)	OZNESSGW008	W	(3)						×	X		le stempen	
8/19		OZNESSOW 204	W	5						χ	X			
8/19	2100	OANESSTB TO 3	W	3						X				

Celimpuished Jaug	Cas Chu	+	Date \$/21/ Time 0 800	02	Shipped Via Alas	ka Airlines Go	ldstreak Air Bii	# 49	74 2	755	I			
eccived for	Laboratory by:		Date Time		Cooler Temperate Upon Arrival	re		· · · · · ·					°C Laboratory Notified Call or Faxed	

2002 Northeast Cape 1850574.260120				son				WATER				i i
FROM 100 Spenard Road Anchorage AK 99517 907;248-8883 rac (907) 248-8884 ATTN. Johanna Dreher	TO. Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-377-2322 Fax 360-636-1068 Attn: Mingta Lin			DRORRO AKLIDJI 63, ALI SIN SIN SUNDJI. ALI SIN SIN SUNDJI. LEGA, SIN SINGA. LEGA, ZIIN, CITCHOMIUM SW 6070,	RTEX SW8240B	3RO AK101	Spare	Sulfare EPA, 300 Alkadinity EPA, 300	BTEX SW8260B GRO.AK191	Methane, Ethane, Ethene RSK 175	DRO/RRO AK102703	30 day Turn-Around-Time [COBLT BDD [Hardcopy Deliverable BOA Option 2 Please FAX a copy at COC and Sample Check-in form to: Gerald Archibald at (907) 353-7670 Sandra Kimbrell at (907) 353-7070
Sampler's Signature Tauglas Du				I Glear glass! unpreserved a	l Clear glass W/McOH5	I Amber glass) Advisorrogate so MeGH	i Clear glas, angressiyed	Plastic dispreserved	33.40 mls/ HCUH	28/40 mL w/ HCL	2 x 500 mls Amber glussys/ EICL 340	Section 1997 Annual Comments of the Comments o
ate 2002 Tune	Sample ID	Matrix	Total Containers	- Sozjar 🔻	dozjar .	78.252	300	I L bottle	VOA Vials	VOA Vials	og bonies	
8/19/1230	OZNES& GWOO3	W	2								*	
8/19/1400	OR NE 88 GWOW	W W	2								*	
8/19 1500	O2 NE S8 GWUOS	W	2								X	
8/20 (300	02 NE 88 GWOG6	$\square_{\mathcal{W}}$	2								X.	
(20 1400	OZNE && GWOOS	_ W	2								X	MS(MSD
\$ 20 1500	OZNE 88 GWOOS	W	2								X	ms/msl = De
119 1410	ON NE 38 GW204	W	2								X	
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2002 Northeast Cape 1850574.260120				SOIL				WATER					
ROM: WWH 4100 Spenard Road Inchorage AK 99517 907)248-8883 32 (907) 248-8884 ATTN: Johanna Dreher	TO: Columbia Analyticul Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax: 360-636-1068 Atm: Mingta Lin			DROPRO AKIGZIGI, PESSYARSIN SWARSON, PESSYARSIN C. COSTANION SWARSON, TOCK by the SOP	BTEX SW8260B	GRO AKIDI	Spare	Sulfate RPA 300 Alkadinity EPA 300	BTEX SW2268 GRO Aklei	Mediaue, Ethans, Ethens RSK 175	DRO/RRO A K102/103	30 day Turn-Around-Time COELT EDD Hardcopy Deliverable BOA Option 2 Please FAX a copy of COC and Sample Ch Gerald Archibald at (907) 353-2636 Sandra Kimbrell at (907) 353-7070	eck-in form to: Phone: (907)753-2691
Sampler's Signature Yanglas and	<i>.</i>			1	, 1 <u>0</u>				†*************************************				
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Anchorage A (907)248-88 Fax (907) 24 ATTN: Joha	83 8-8884	TO: Severn Trent Laboratories 5755 Rth Street East Tacoma, WA 998424* Phone: (253)922-2310 Fax: (253)9225047 Atm Dawn Werner											Northcast Cape Mod NPDL WO # 02-00	7
(A)					DRO/RRO AK102/103, PAH SIM SW82/10C, PCEB SW8/082, Lead, Zinc, Chromium SW6/020, TOC by lab SOP	BTEX SW8260B	GRO AK101	Spare	Saifate EPA 300 Alkalinity EPA 300	BTEX SW8260B GRO AK101	Methane, Ethane, Ethene RSK 175	DRO/RRO A K102/103	30 day Turn-Around-Time COELT EDD Hardcopy Deliverable BOA Option 2	
Jai	iglas Oc	wif			I Clear glass; unpreserved a	Clear glass W/MeOH	I-Amber glass Wesufrogste McOHV	1 Clean glass, unpreserved	Plastic, unpreserved	3'x 40 ml, w/ HCE	2 x 40 ml w/ HCL	2 x 500 ml Amber glass w/ HCL	Grune	Dis Control
Date 2002	Titne	Sample ID	Matrix	Total Containers	8oz jar	4oz jar	4oz jac	4ozjár	I Dbottle	VOA Vials	VOA Vials	bortles		
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Anchorage ((907)248-88 Fax (907) 2- ATTN: Joha	183 48-8884	TO: Sevem Trent Laboratories 5755 8th Street East Tacoma, WA 09842# Phone: (253)922-2310 Fax: (253)922-047 Attn: Dawn Werner	5		DROMRO A K 102/103, PAH SIM SW8270C, PCB SW9082, Leaf, Chromium SW6020, TOC by tab SOP	BTEX SW8260B) AK10I	ų	Saifat EPA 300 Albainity EPA 300	BTEX SW8266 Gro a kin	nane, Ethane, Ethene RSK 175	DRO/RRO AK182/83	30 day Turn-Around-Time COELT EDD Hardcopy Deliverable BOA Option 2	
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2002 Northeast Cape 1850574.260120				SOIL				WATER						
FROM: MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN. Johanna Dreher	TO: Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax: 360-636-1068 Attn: Mingia Lin											30 day Turn-Around-Time		
	~			DRO/RRO AK102/103, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	BTEX SW8260B	GRO AK101	Spare	Sulfate EPA 300 Alkalinity EPA 300	BTEX SW8260B GRO AK101	Methane, Ethane, Ethene RSK 175	DRO/RRO AK102/103	COELT EDD Hardcopy Deliverable BOA Please FAX a copy of COC a Gerald Archibald at (907) 35. Sandra Kimbrell at (907) 35.	nd Sample Chec 3-2636 P	k-in form to: hone: (907)753-2691
Sampled stignature	lud			l Cleanglast unpreserveds	liClearglean Witteolics	l Amber (las Surregue McOH (a		upreserved		20 none 30 non	00.00			A substitution
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William A-OC	nell	Date 2-2 - Time 0 25	~	Shipped Via Alasi	a Airlines Go	ldstreak Air Bil	* -M7	4 27	44					
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18:	Northeast Cape 50574.260120				SOIL				WATER					
Anchorage (907)248-8 Fax (907) 2	883	TO: Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax: 360-636-1068 Attn: Mingta Lin											30 day Tura-Areund-Time	
					DRORRO AK102/103, PCH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	BTEX SW8260B	GRO AK101	Spare	Sulfate EPA 300 Alkalinity EPA 300	BTEX SW2260B GRO AK101	Methaue, Ethane, Ethene RSK 175	DRO/RRO AK102/103	COELT EDD Hardcopy Deliverable BOA Option 2 Please FAX a copy of COC and Sample Cl Gerald Archibald at (907) 353-2636 Sandra Kimbrell at (907) 353-7070	heck-in form to: Phone: (907)753-2691
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2002 Northeast Cape 1850574.260120				SOIL				WATER				
FROM: MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher	TO Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax. 360-636-1068 Atm. Mingla Lin											30 day Turn-Around-Time
				DRO/RRO AK102/103, PCB SW80270C, PCB SW8082, Lead, Zinc, Chromium SW6020, FOC by lab SOP	BTEX SW8260B	GRO AK101	Spare	Suffate EPA 300 Alkatinity EPA 300	BTEX SW260B GRO AK101	Methane. Ethane, Ethene RSK 175	DRO/RRO AK102/103	Hardcopy Deliverable BOA Option 2 Please FAX a copy of COC and Sample Check-in form to: Gerald Archibald at (907)753-2636 Fhone: (907)753-2691 Sandra Kimbrell at (907) 353-7070
Sumpler's Signatur	of John	ull		I Clear glass of unpreserved	TClear grass S.W/McOHA	Amberglas Arteurogas Metil	Littlear glass unificactived	Plastic.ve unpreserved	3x40mlev HCL	CT COMPAN	Amber glassia HCL	A Comment of the Comm
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MUSELMAA	uns	Date Time	or_	Shipped Via Alas	ka Airlines Go	ldstreak Air Bi	" LJ9	74 2	733			
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2002 Northeast Cape 1850574,260120				SOIL				WATER			.4	
FROM: MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher	TO: Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax: 360-636-1058 Attn: Mingra Lin		-							s		30 day Turn-Areund-Time COELT EDD
			DRORRO AK102103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	BTEX SW8260B	GRO AK101 →	Spare	Suffate EPA 300 Alkalinity EPA 300	BTEX SW82608 GRO AK101	Mechane, Ethane, Ethene RSK 175	DROYRO AK102103	Hardcopy Deliverable BOA Option 2 Please FAX a copy of COC and Sample Check-in form to: Gerald Archibald at (9077)35-3266 Phone: (9077)753-2691 Sandra Kimbrell at (907) 353-7070	
Sanfaler's Eigendal	d Allenn	B		PC No. of Sec.						2000	7.	
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· h												
Andella IX	ande	Date Time	52	Shipped Via Alas	ka Airlines Go	ldstreak Air B	11# 49-	74 2	733			
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econved for Laboratory by:		Time /5		Cooler Temperan Upon Arrival	ire							Call or Faxed

2002 Northeast Cape 1850574.260120				SOIL				WATER				
FROM: MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher	TO: Columbia Analytical Services 1317 South 13th Avenue Ketso, WA 98626 Phone: 360-577-7222 Fax: 360-636-1068 Attn: Mingta Lin											30 day Turn-Around-Thme
				DRORRO AK102103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lah SOP	BTEX SW8260B	GRO AK101	Spare	Suffate EPA 300 Alkalinity EPA 300	BTEX SW8260B GRO AK101	Methane, Ethane, Ethene BNK 175	DRO/RRO AK102/103	COELT EDD Hardcopy Deliverable BOA Option 2 Please FAX a copy of COC and Sample Check-in form to: Gerald Archibald at (907)753-2636 Phone: (997)753-2691 Sandra Kimbrell at (907) 353-7070
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ete 2002 Time	Sample ID	Matrix	Total Containers	Sozjar 1	ic for ar	re don jary.	A dor jar	1 L Boule	VOX Vals	VOA Vials	bonless	
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Anchorage A (907)248-88 Fax (907) 24 ATTN: John MwH job #	83 8-8884 nna Orcher 1850574.260120	TO: Secret Trem Luboratories 575 Secret Trem Luboratories 575 Secret Trem Luboratories 575 Secret Trem Luboratories 575 Secret Trem Luboratories 575 Francisco Trem Luboratories 575 Periodic (2339922-2310 Periodic (2339922-2310 Periodic (2339922-2310 Periodic (2339922-2310 Periodic (2339922-2310 Periodic (233992-2310 Periodic (23		viaJ	DROKRO AK1027103, PAH SIM SW220C, PCB SW302, Lada Zinc, Chremium SW6020, TOC by ab SOP	BTEX SW9260B	GROAKIBI	Spare	Sufface EPA 300 Altalinity EPA 300	BTEX SW8260B GRO AKIOI	Methaus, Ethans, Ethens RSK 175	DRO/RRO AK102/103	30 day Turn-Around-Time COELT EDD Hardcopy Deliverable BOA Option 2	
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ate 2002		Sample:ID	Matitx		SACROMAN VI		Second Co		dusconte.	Vez yaz	EVERTORIS'	S Bortles		
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	aboratory by:		Date Date		Cooler Temperatu	re			<u> </u>				*C	Laboratory Notified
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2002 Northeast Cape 1850574.260120				SOIL				WATER					
FROM: MWH 4100 Spenm'd Road Anchorage AK 99517 (997)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreber	TO: Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax: 360-368-1088 Atte: Mingta Lin			OORRO AKiozna, Li Sina Swazna, Swasa, Ad Zae, Caronium Sw6029, SC by to SOG	TEX SW8260B	GRO AK101	24	Sulface RPA 300 Alkalishy EPA 300	BTEX SWEZAB GRO AKIÐI	ichate, Echane, Bibene RSK 175	DROFRO AK102103	30 day Tura-Around-Time COELT EDD Hardeayp Deliverable BOA Option 2 Please FAX a copy of COC and Sample C Gerald Archibeld at (907) 53-2436 Sandra Kimbrell at (907) 353-7070	heck-in form to: Phone: (907)753-2691
Sampler's Signature	ofteh !)dg	6222	ā	5	d,	8	ar allerin	Š			
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	Spenard Road	TO: Severn Trent Laboratories 575.	5										NORTHEAST CAPE IN NORTHEAST CAPE IN NADL WORLD	MOD 7
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Fax (907) 24 ATTN: Joha		Phone: (253)922-2310 Fax: (253)9225047											NPDL WO-	
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					IM Sy W808: Vinc, C	SW82	K101		EPA ity Ef	SW82	e, Etha	RO A	1	
					DROKRO AKUSZIOS, PAH SIM SW8270C, PCP S SW8082, \$Lead, Zinc, Chromium SW6020, FTOC by lab SOP	BTEX SW8260B	GRO AK101	Spare	Sulfate EPA 300 Alkatinity EPA 300	BTEX SW8260B GRO AK101	fetha	DRO/RRO		
<u> </u>	er's Signature	/			Sec. Sec.		To Manager Manager			3440 miar	a desir			
_Oa	uglas (L	aut			MCLeavytast Suppresent	WARCH	Media	ameleria.	uncreserved	Ance				
Date 2002	Firme	SampleID e	Mark	Toral Container			Heliotek	PROPERTY.	Lane at	vel var	VIII.			
8/17	1110	CANESSS B 306	. S	4	×	_ X	Χ	X			-			
8/21	1600	OLNESSSB 335		12	X	Х	X	Χ					ms/ms0	
8/22	1415	OZNESSUB 338	S	4	X	X	K	X						
8/22	1955	OZNESSIB 340	5	14	X	_ X	X	-X						
8/17	2100	CANESSTB COX	S	2	×c	X	X						<u> </u>	
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elinquished	auglas O	\mathcal{L}	Date 8/23		Shipped Via Alas	ka Airlines G	oldstreak Air B	ill# 42	18 47	96	•			
	Labyratory by:	= 4	Time Date	17-	Cooler Temperate	ire		121	10 -11	, ye			*C	Laboratory Notified
			Time		Upon Arrival									Call or Faxed

FROM: MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher MwH job # 1830574-260120	TO: Severn Trent Laboratories 575 Rth Street East Tacoma, WA 998424 Phone: (253)922-2310 Fax: (253)9225047 Attn: Dawn Werner	5		20,						RSK 175		30 day Turn-Around-Time	
				DRORRO AK102703, PCB SW8082, PCB SW8082, Lead, Ziac, Cirronium SW6020, TOC by tab SOP	BTEX SWB2608	GRO AKIBI	Space	Sulfate EPA 300 Alkaliuity EPA 300	BTEX SW8260B GRO AK101	Methane, Ethane, Ethene	DRO/RRO AK102/103	COELT EDD Hardcopy Deliverable BOA Option 2	
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	OLNESSIB 335		12	*	<u>Х</u>	X	X					ms/ms0	
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telinquisher by:	1	Date 8/23	162	Shipped Via Alas	ka Airlines Go	oldstreak Air Bi	11# 44-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u>a</u>				T
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eceived for Labyratory by:		Date Time		Cooler Temperatu Upon Arrival	ire							°C	Laboratory Notified Call or Faxed

FROM: MWH 4100 Spenard Road Anchorage AK 99517 (907):248-8883 Fax (907):248-8884 ATTN: Johanna Dreher MWH job # 1850574 260120	TO: R&M Consultants 9101 Vanguard Drive Anchorage, AK 99507 fax: 360-577-7222 phone: 907-522-3403 Attn: Dave Johnson			Siere Analysis ASTM D-422 Specific Gravity ASTM D-854 Moisture Content ASTM D-2216 11 x 2 gal. ziplock	Dry Bulk Density ASTM D-2937 Hydraulic Conductivity ASTM D-4511 Soil Pornsity - Calculated 1 x Brass Sleeve		24 Hour Turn-Arou COELT EDD Hardcopy Deliverat		
	englas & hul	Γ,	Total		Cool to 4 degr	ees C		Com	ments
8/18 1140	Sample ID ORNESSSO41	Matrix	Containers 2		V		88-6	4-6'	
8/19 1315	ORNEXXSB042	-5	2	~	~		88-9	10-121	
8/20 1900	ORNESSSB043	.5	2		~		88-9 88-16	7-91	
8/21 1605	CANESYS BOYZ CANESYS BOYZ CANESYS BOYY	ی	2		V		88-18	9-11'	
			,						
elinquished by:		Date 8/20 Time //0	v	Shipped Via Alask	About Dele	nk Air Bill#			
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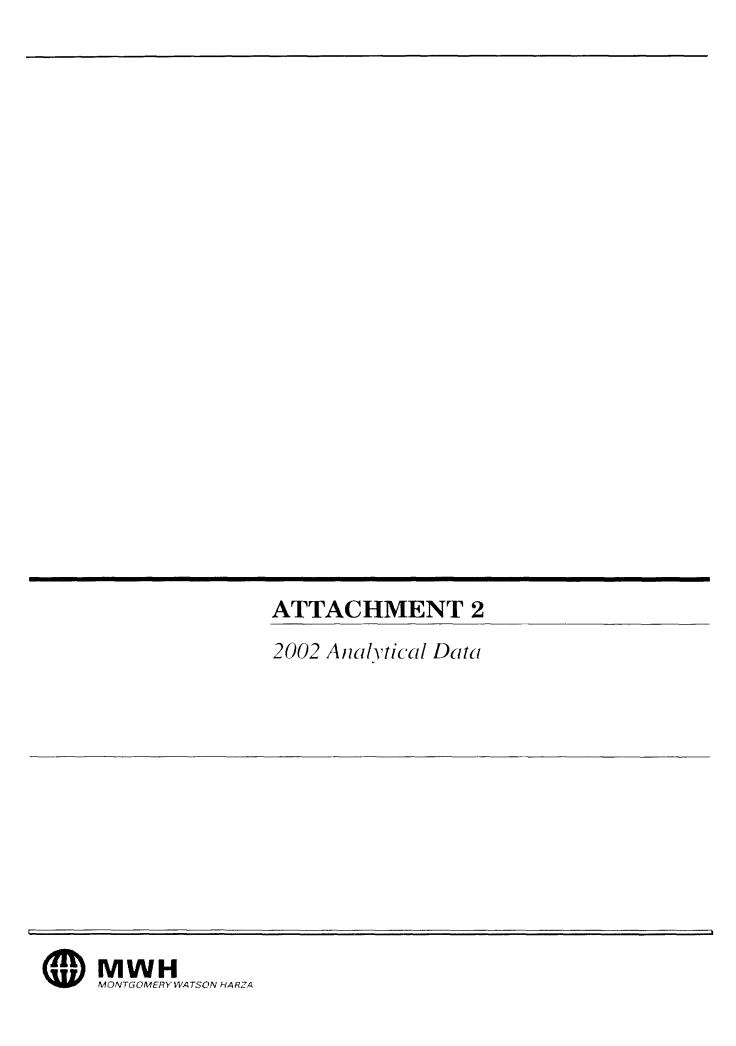


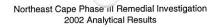
Figure 2-2 (Updated) SOILS RESULTS

Sample ID	Soil Sample	Sample	GRO	DRO	RRO	Benzene	Toluene	o-Xylene	m & p- Xylene	Naphthalene	Chromium
	Location	(feet bgs)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
02NE88SB001	MW 88-1	15.5-17.5	19	5000	39 VJ	ND (0.012)	ND (0.027)	ND (0.027)	ND (0.027)	0.0022 VJ	6.5
02NE88SB002	MW 88-1	17.5-20	4.9	1400	16 VJ	ND (0.011)	ND (0.025)	ND (0.025)	ND (0.025)	0.00038 VJ	4.38
02NE88SB003	MW 88-2	8-10	ND (3)	ND (12)	6 VJ	ND (0.014)	ND (0.035)	ND (0.035)	ND (0.035)	0.001 VJ	16.1
02NE88SB004	MW 88-2	10-12	ND (3.6)	ND (11)	7.1 VJ	ND (0.015)	ND (0.037)	ND (0.037)	ND (0.037)	0.00056 VJ	8
02NE88SB005	MW 88-3	4-6	ND (6)	7.6 VJ	120 VJ	ND (0.023)	ND (0.058)	ND (0.058)	ND (0.058)	0.00081 VJ	22.3
02NE88SB006	MW 88-3	16-18	51	3700	24 VJ	ND (0.021)	ND (0.051)	ND (0.051)	0.31 VJ	1.5	13.1
02NE88SB007	MW 88-4	9-11	44	12000	3700	0.047	0.083	0.89	1.6	5.9 VHB	17.3
02NE88SB008	MW 88-4	11-13	54 VHB	2600	16 VJ	ND (0.018)	ND (0.044)	0.01 VJ	0.29	2.3	3.73
02NE88SB009	MW 88-5	1-3	ND (2.8)	380	3400	ND (0.012)	ND (0.025)	ND (0.025)	ND (0.025)	0.0041 VJ	42.3
02NE88SB010	MW 88-5	11-13	ND (4)	21	25 VJ	ND (0.014)	ND (0.034)	ND (0.034)	ND (0.034)	0.0037 VJ	4.5
02NE88SB011	MW 88-6	7-9	130 VHB	3100	23 VJ	ND (0.012)	ND (0.026)	0.044	0.44	4.1	12.8
02NE88SB012	MW 88-6	11-13	83 VHB	1200	30 VJ	ND (0.012)	ND (0.028)	0.013 VJ	0.15	1.1	8.3
02NE88SB013	MW 88-7	7-9	140 VHB	12000	55 VJ	ND (0.012)	ND (0.027)	0.13	1,5	7.9	17
02NE88SB014	MW 88-7	11-13	130 VHB	9200	54 VJ	ND (0.011)	ND (0.026)	0.38	2.2	8.4	11.6
02NE88SB015	MW 88-8	10-12	68 VHB	5200	11 VJ	ND (0.018)	ND (0.044)	ND (0.044)	0.17	3.3	9.63
02NE88SB016	8-88 WM	14-16	73 VHB	2300	7.4 VJ	ND (0.018)	ND (0.045)	ND (0.045)	0.18	2.3	8.34
02NE88SB017	MW 88-9	8-10	ND (3.5)	7 VJ	8.7 VJ	ND (0.015)	ND (0.036)	ND (0.036)	ND (0.036)	0.00045 VJ	7.04
02NE88SB018	_ MW 88-9	20-22	ND (4.8)	7.6 VJ	12 VJ	ND (0.016)	ND (0.038)	ND (0.038)	ND (0.038)	0.0019 VJ	12.5
02NE88SB019	MW 88-10	22-24	31	1400	ND (110)	ND (0.015)	ND (0.038)	ND (0.038)	ND (0.038)	0.48	10
02NE88SB020	MW 88-10	24-26	19	750	ND (110)	ND (0.015)	ND (0.038)	ND (0.038)	ND (0.038)	0.11	4.8
02NE88SB021	SB 88-11	3-5	70	13000	5100	0.12	3.2	2.7	5.1	12	16.5
02NE88SB022	SB 88-11	7-9	99	51000	6000	0.19	4.5_	6.2	12	81	23.7
02NE88SB023	SB 88-12	4-6	ND (5.2)	190	1500	ND (0.022)	ND (0.054)	ND (0.054)	ND (0.054)	0.0045 VJ	12.4
02NE88SB024	SB 88-12	10-12	ND (3.8)	20	33 VJ	ND (0.017)	ND (0.043)	ND (0.043)	ND (0.043)	0.0011 VJ	9.62
02NE88SB025	SB 88-13	6-8	11 VJ	430	4600	0.37	ND (0.18)	0.071 VJ	0.19	0.042	16.5
02NE88SB026	SB 88-13	14-16	ND (6.1)	77	420	ND (0.022)	ND (0.054)	ND (0.054)	ND (0.054)	_0.0018 VJ	14.3
02NE88SB027	SB 88-14	2-4	220 VHB	47000	3000	0.019	0.036 VJ	1.7	0.71	79	22.7
02NE88SB028	SB 88-14	12-14	62	210	900	0.024	1.4	1.7	1.3	0.41	22.8
02NE88SB029	SB 88-15	10-12	ND (4.9)	33	150	ND (0.018)	ND (0.044)	0.01 VJ	ND (0.044)	0.016	23
02NE88SB030	SB 88-15	12-14	ND (4.4)	79	590	ND (0.021)	ND (0.052)	ND (0.052)	ND (0.052)	0.0047 VJ	23.4
02NE88SB031	SB 88-16	6-8	110 VHB	16000	33 VJ	ND (0.015)	0.032 VJ	0.015 VJ	1.8	28	15.6
02NE88SB032	SB 88-16	10-12	60 VHB	4200	12 VJ	ND (0.017)	ND (0.041)	ND (0.041)	0.043	0.9 VLB	6.7
02NE88SB033	SB 88-17	8-10	130 VHB	4700	450	ND (0.013)	0.05 VHB	1.5 VHB	4 VHB	12	18.2
02NE88SB034	SB 88-17	12-14	140 VHB	4300	110 VJ	ND (0.012)	ND (0.023)	0.34 VHB	3 VHB	3.6	8.31
02NE88SB035	SB 88-18	8-10	100 VHB	7300	24 VJ	0.018 VHB	0.018 VJ	0.019 VJ	0.95 VHB	10	14
02NE88SB036	SB 88-18	10-12	170 VHB	4000 VJ	226	0.062 VJ	0.041	1.3 VJ	4.4 VJ	6.9 VJ	16.7 VJ

Notes:

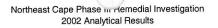
Values shown in **BOLD** exceed ADEC Method 2, under 40 inch zone, migration to groundwater pathway, Ethylbenzene results did not exceed ADEC Method 2

PCB results did not exceed ADEC Method 2



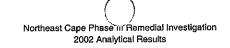
02NE88GW001 02NE88GW001						and the second control of the				-	
				Analytical I	Results- Main Operations Complex Gro	oundwater					
OONITOOCIMIOO4	8/17/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	.024	MG/L	.05	.02	1	VJ
UZINE88GWVUU1	8/17/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	1.2	MG/L	.1	.042	1	
02NE88GW001	8/17/2002	CS	W	AK103	Residual Range Organics	.43	MG/L	.2	.073	1	
02NE88GW001	8/17/2002	CS	W	E300.0	Sulfate	17	MG/L	2	0.2	10	
02NE88GW001	8/17/2002	CS	W	E310.1	Alkalinity, Total	50	MG/L	2	1	1	
02NE88GW001	8/17/2002	CS	W	RSK175	Ethane	.0017	MG/L	.0005	.0005	1	
02NE88GW001	8/17/2002	CS	W	RSK175	Ethene	ND	MG/L	.0015	.0013	1	
02NE88GW001	8/17/2002	CS	W	RSK175	Methane	.0039	MG/L	.0005	.0003	1	
02NE88GW001	8/17/2002	CS	W	SW8260B	Benzene	.00058	MG/L	.0005	.00011	1	
02NE88GW001	8/17/2002	CS	W	SW8260B	Ethylbenzene	ND	MG/L	.0005	.00013	1	
02NE88GW001	8/17/2002	CS	W	SW8260B	o-Xylene	.00013	MG/L	.0005	.000079	1	VJ
02NE88GW001	8/17/2002	CS	W	SW8260B	Toluene	.00061	MG/L	.0005	.000098	1	VB
02NE88GW001	8/17/2002	CS	W	SW8260B	Xylene, Isomers m & p	.00022	MG/L	.0005	.00022	1	VJ
02NE88GW002	8/17/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	ND	MG/L	.05	.02	1	
02NE88GW002	8/17/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	.71	MG/L	.1	.042	1	
02NE88GW002	8/17/2002	CS	W	AK103	Residual Range Organics	1.3	MG/L	.2	.073	1	
02NE88GW002	8/17/2002	CS	W	E300.0	Sulfate	13	MG/L	2	0.2	10	
02NE88GW002	8/17/2002	CS	W	E310.1	Alkalinity, Total	40	MG/L	2	1	1	
02NE88GW002	8/17/2002	CS	W	RSK175	Ethane	ND	MG/L	.0005	.0005	1	
02NE88GW002	8/17/2002	CS	W	RSK175	Ethene	ND	MG/L	.0015	.0013	1	
02NE88GW002	8/17/2002	CS	W	RSK175	Methane	.01	MG/L	.0005	.0003	1	
02NE88GW002	8/17/2002	CS	W	SW8260B	Benzene	.00092	MG/L	.0005	.00011	1	
02NE88GW002	8/17/2002	CS	W	SW8260B	Ethylbenzene	.00034	MG/L	.0005	.00013	1	VJ
02NE88GW002	8/17/2002	CS	W	SW8260B	o-Xylene	.0001	MG/L	.0005	.000079	1	VJ
	8/17/2002	CS	W	SW8260B	Toluene	.00036	MG/L	.0005	.000098	1	VB
02NE88GW002	8/17/2002	CS	W	SW8260B	Xvlene, Isomers m & p	.00035	MG/L	.0005	.00022	1	VJ
02NE88GW002		CS	W	AK101	Gasoline Range Organics (C6-C10)	.42	MG/L	.05	.02	1	
02NE88GW003	8/19/2002	CS	W	AK101 AK102	Diesel Range Organics (C10-C25)	34	MG/L	1.1	.43	10	
02NE88GW003	8/19/2002				Residual Range Organics	.22	MG/L	.21	.074	1	
02NE88GW003	8/19/2002	CS	W	AK103	Sulfate	12	MG/L	1	0.1	5	
02NE88GW003	8/19/2002	CS		E300.0		47	MG/L	2	1	1	
02NE88GW003	8/19/2002	CS	W	E310.1	Alkalinity, Total	ND	MG/L	.0005	.0005	1	
02NE88GW003	8/19/2002	CS	W	RSK175	Ethane	ND	MG/L	.0005	.0013	1	
02NE88GW003	8/19/2002	CS	W	RSK175	Ethene		MG/L	.0015	.0003	1	
02NE88GW003	8/19/2002	CS	W	RSK175	Methane	.0055	MG/L	.0005	.0003	1	
02NE88GW003	8/19/2002	CS	W	SW8260B	Benzene	.00057	MG/L MG/L	.0005	.00011	1	
02NE88GW003	8/19/2002	CS	W	SW8260B	Ethylbenzene	.025			.00079	1 1	VJ
02NE88GW003	8/19/2002	CS	W	SW8260B	o-Xylene	.00008	MG/L	.0005	.000079	1	VB
02NE88GW003	8/19/2002	CS	W	SW8260B	Toluene	.00024	MG/L	.0005	.000098	1	VD
02NE88GW003	8/19/2002	CS	W	SW8260B	Xylene, Isomers m & p	.022	MG/L	.0005			
02NE88GW004	8/19/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	1.2	MG/L	.05	.02	10	
02NE88GW004	8/19/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	72	MG/L	1.1	.43		
02NE88GW004	8/19/2002	CS	W	AK103	Residual Range Organics	1.9	MG/L	.21	.074	1	
02NE88GW004	8/19/2002	CS	W	E300.0	Sulfate	1.4	MG/L	0.2	0.02	11	
02NE88GW004	8/19/2002	CS	W	E310.1	Alkalinity, Total	258	MG/L	2	1	1	
02NE88GW004	8/19/2002	CS	W	RSK175	Ethane	ND	MG/L	.0005	.0005	1	
02NE88GW004	8/19/2002	CS	W	RSK175	Ethene	ND	MG/L	.0015	.0013	1	
02NE88GW004	8/19/2002	CS	W	RSK175	Methane	1.7	MG/L	.0005	.0003	1	
02NE88GW004	8/19/2002	CS	W	SW8260B	Benzene	.03	MG/L	.0005	.00011	1	
02NE88GW004	8/19/2002	CS	W	SW8260B	Ethylbenzene	.12	MG/L	.005	.0013	10	
02NE88GW004	8/19/2002	CS	W	SW8260B	o-Xylene	.007	MG/L	.0005	.000079	11	
02NE88GW004	8/19/2002	CS	W	SW8260B	Toluene	.0032	MG/L	.0005	.000098	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88GW004	8/19/2002	CS	W	SW8260B	Xylene, Isomers m & p	.085	MG/L	.0005	.00022	1	
02NE88GW005	8/19/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	1.3	MG/L	.05	.02	1	
02NE88GW005	8/19/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	9.8	MG/L	.11	.043	1	
02NE88GW005	8/19/2002	cs	W	AK103	Residual Range Organics	2.3	MG/L	.21	.074	1	
02NE88GW005	8/19/2002	CS	W	E300.0	Sulfate	7.8	MG/L	0.2	0.02	1	
02NE88GW005	8/19/2002	CS	w	E310.1	Alkalinity, Total	145	MG/L	2	1	1	
02NE88GW005	8/19/2002	CS	W	RSK175	Ethane	ND	MG/L	.0005	.0005	1	
02NE88GW005	8/19/2002	CS	W	RSK175	Ethene	ND	MG/L	.0015	.0013	1	
02NE88GW005	8/19/2002	CS	W	RSK175	Methane	.62	MG/L	.0005	.0003	1	
02NE88GW005	8/19/2002	CS	w	SW8260B	Benzene	.019	MG/L	.0005	.00011	1	
02NE88GW005	8/19/2002	CS	w	SW8260B	Ethylbenzene	.035	MG/L	.0005	.00013	1	
02NE88GW005	8/19/2002	CS	w	SW8260B	o-Xylene	.071	MG/L	.0005	.000079	1	
02NE88GW005	8/19/2002	CS	w	SW8260B	Toluene	.12	MG/L	.005	.00098	10	
02NE88GW005	8/19/2002	CS	W	SW8260B	Xylene, Isomers m & p	.14	MG/L	.0005	.00022	1	
02NE88GW005	8/20/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	1.1	MG/L	.05	.02	1	
02NE88GW006	8/20/2002	CS	w	AK102	Diesel Range Organics (C10-C25)	69	MG/L	1.1	.43	10	
02NE88GW006	8/20/2002	CS	W	AK103	Residual Range Organics	2.1	MG/L	.21	.074	1	
02NE88GW006	8/20/2002	CS	W	E300.0	Sulfate	11.7	MG/L	0.4	0.04	2	
02NE88GW006	8/20/2002	CS	W	E310.1	Alkalinity, Total	153	MG/L	2	1	1	
	8/20/2002	CS	W	RSK175	Ethane	ND	MG/L	.0005	.0005	1	
02NE88GW006		CS	W	RSK175	Ethene	ND	MG/L	.0015	.0013	1	
02NE88GW006	8/20/2002 8/20/2002	CS	W	RSK175	Methane	2.9	MG/L	.0005	.0003	1	
02NE88GW006		CS	W	SW8260B	Benzene	.00074	MG/L	.0005	.00011	1	
02NE88GW006	8/20/2002		W	SW8260B	Ethylbenzene	.052	MG/L	.0005	.00013	1	
02NE88GW006	8/20/2002	CS	W	SW8260B	o-Xylene	.0038	MG/L	.0005	.000079	1	
02NE88GW006	8/20/2002	CS	W	SW8260B	Toluene	.00019	MG/L	.0005	.000098	1	VB
02NE88GW006	8/20/2002		W	SW8260B SW8260B	Xylene, Isomers m & p	.055	MG/L	.0005	.00022	1	
02NE88GW006	8/20/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	1.5	MG/L	.05	.02	1	
02NE88GW007	8/20/2002	CS	W	AK101 AK102	Diesel Range Organics (C10-C25)	6.1	MG/L	.11	.043	1	VLB
02NE88GW007	8/20/2002		W	AK102 AK103	Residual Range Organics	.32	MG/L	.21	.074	1	
02NE88GW007	8/20/2002	CS	W	E300.0	Sulfate	0.8	MG/L	0.2	0.02	1	
02NE88GW007	8/20/2002	CS	W	E310.1	Alkalinity, Total	179	MG/L	2	1	1	
02NE88GW007	8/20/2002	CS	W	RSK175	Ethane	ND	MG/L	.0005	.0005	1	
02NE88GW007	8/20/2002	CS CS	W	RSK175	Ethene	ND	MG/L	.0015	.0013	1	
02NE88GW007	8/20/2002		W	RSK175	Methane	1.2	MG/L	.0005	.0003	1	VLB
02NE88GW007	8/20/2002	CS	W	SW8260B	Benzene	.014	MG/L	.0005	.00011	1	
02NE88GW007	8/20/2002	CS	W	SW8260B	Ethylbenzene	.072	MG/L	.0005	.00013	1	
02NE88GW007	8/20/2002	CS	W	SW8260B	o-Xylene	.024	MG/L	.0005	.000079	1	
02NE88GW007	8/20/2002		W	SW8260B	Toluene	.0012	MG/L	.0005	.000098	1	VB
02NE88GW007	8/20/2002	CS	W	SW8260B SW8260B	Xylene, Isomers m & p	.13	MG/L	.0005	.00022	1	
02NE88GW007	8/20/2002	CS			Gasoline Range Organics (C6-C10)	.52	MG/L	.05	.02	1	
02NE88GW008	8/20/2002	CS	W	AK101	Diesel Range Organics (C10-C25)	20	MG/L	.1	.042	1	
02NE88GW008	8/20/2002	CS	W	AK102	Residual Range Organics	.18	MG/L	.2	.073	1	VJ
02NE88GW008	8/20/2002	CS	W	AK103	Sulfate	2.6	MG/L	0.2	0.02	1	
02NE88GW008	8/20/2002	CS	W	E300.0		162	MG/L	2	1	1	
02NE88GW008	8/20/2002	CS	W	E310.1	Alkalinity, Total	ND	MG/L	.0005	.0005	1	
02NE88GW008	8/20/2002	CS	W	RSK175	Ethane Ethene	ND	MG/L	.0015	.0013	1	
02NE88GW008	8/20/2002	CS	W	RSK175		.88	MG/L	.0015	.0003	1	
02NE88GW008	8/20/2002	CS	W	RSK175	Methane	.00012	MG/L	.0005	.00011	1	VJ
02NE88GW008	8/20/2002	CS	W	SW8260B	Benzene	.018	MG/L	.0005	.00011	1	
02NE88GW008	8/20/2002	CS	W	SW8260B	Ethylbenzene	.00064	MG/L	.0005	.000079	1	
02NE88GW008	8/20/2002	CS	W	SW8260B	o-Xylene	.00064	MG/L	.0005	.000098	1	VB
02NE88GW008	8/20/2002	CS	W	SW8260B	Toluene	.00011	WG/L	.0005	.000000		



sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88GW008	8/20/2002	CS	W	SW8260B	Xylene, Isomers m & p	.016	MG/L	.0005	.00022	11	
02NE88GW009	8/21/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	.064	MG/L	.05	.02	1	
02NE88GW009	8/21/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	.71	MG/L	.1	.042	1	
02NE88GW009	8/21/2002	CS	W	AK103	Residual Range Organics	ND	MG/L	.2	.073	11	
02NE88GW009	8/21/2002	CS	W	E300.0	Sulfate	5	MG/L	1	0.1	5	
02NE88GW009	8/21/2002	CS	W	E310.1	Alkalinity, Total	26	MG/L	2	1	1	
02NE88GW009	8/21/2002	CS	W	RSK175	Ethane	ND	MG/L	.0005	.0005	1	
02NE88GW009	8/21/2002	CS	W	RSK175	Ethene	ND	MG/L	.0015	.0013	1	
02NE88GW009	8/21/2002	CS	W	RSK175	Methane	.13	MG/L	.0005	.0003	1	
02NE88GW009	8/21/2002	CS	W	SW8260B	Benzene	ND	MG/L	.0005	.00011	1	
02NE88GW009	8/21/2002	CS	W	SW8260B	Ethylbenzene	ND	MG/L	.0005	.00013	1	
02NE88GW009	8/21/2002	CS	W	SW8260B	o-Xylene	ND	MG/L	.0005	.000079	1	
02NE88GW009	8/21/2002	CS	W	SW8260B	Toluene	ND	MG/L	.0005	.000098	1	
02NE88GW009	8/21/2002	CS	W	SW8260B	Xylene, Isomers m & p	ND	MG/L	.0005	.00022	1	
02NE88GW009	8/21/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	.12	MG/L	.05	.02	1	
	8/21/2002	CS	W	AK101	Diesel Range Organics (C10-C25)	55	MG/L	1.1	.43	10	
02NE88GW010	8/21/2002	CS	W	AK102 AK103	Residual Range Organics	1.3	MG/L	.21	.075	1	
02NE88GW010 02NE88GW010	8/21/2002	CS	W	E300.0	Sulfate	13	MG/L	1	0.1	5	
	8/21/2002	CS	W	E310.1	Alkalinity, Total	197	MG/L	2	1	1	
02NE88GW010	8/21/2002	CS	W	RSK175	Ethane	.00064	MG/L	.0005	.0005	1	
02NE88GW010		CS	W	RSK175	Ethene	.0024	MG/L	.0015	.0013	1	
02NE88GW010	8/21/2002	CS	W	RSK175	Methane	.031	MG/L	.0005	.0003	1	
02NE88GW010	8/21/2002			SW8260B	Benzene	.0027	MG/L	.0005	.00011	1	
02NE88GW010	8/21/2002	CS	W			.0027	MG/L	.0005	.00011	1	
02NE88GW010	8/21/2002	CS	W	SW8260B	Ethylbenzene	.00017	MG/L	.0005	.00079	1	VJ
02NE88GW010	8/21/2002	CS	W	SW8260B	o-Xylene	.0014	MG/L	.0005	.000073	1	
02NE88GW010	8/21/2002	CS	W	SW8260B	Toluene	.0014	MG/L MG/L	.0005	.000038	1	
02NE88GW010	8/21/2002	CS	W	SW8260B	Xylene, Isomers m & p	1.2	MG/L	.05	.02	1	
02NE88GW204	8/19/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	56	MG/L	1	.42	10	
02NE88GW204	8/19/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	1.3	MG/L	.2	.073	1	
02NE88GW204	8/19/2002	CS	W	AK103	Residual Range Organics	0.9	MG/L	0.2	0.02	1	
02NE88GW204	8/19/2002	CS	W	E300.0	Sulfate	273	MG/L	2	1	1	
02NE88GW204	8/19/2002	CS	W	E310.1	Alkalinity, Total		MG/L	.0005	.0005	1	
02NE88GW204	8/19/2002	CS	W	RSK175	Ethane	ND	MG/L MG/L	.0015	.0003	1	
02NE88GW204	8/19/2002	CS	W	RSK175	Ethene	ND		.0005	.0003	1	
02NE88GW204	8/19/2002	CS	W	RSK175	Methane	1.8	MG/L	.0005	.0003	1 1	
02NE88GW204	8/19/2002	CS	W	SW8260B	Benzene	.03	MG/L		.0011	10	
02NE88GW204	8/19/2002	CS	W	SW8260B	Ethylbenzene	.12	MG/L	.005		1	
02NE88GW204	8/19/2002	CS	W	SW8260B	o-Xylene	.0075	MG/L	.0005	.000079	1	
02NE88GW204	8/19/2002	CS	W	SW8260B	Toluene	.0033	MG/L	.0005	.000098	1	
02NE88GW204	8/19/2002	CS	W	SW8260B	Xylene, Isomers m & p	.083	MG/L	.0005	.00022		
				Analy	tical Results- Main Operation Complex	Soil Samp	ling 2002				
02NE88SB001	8/14/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	19	MG/KG	2.7	2.2	1	
02NE88SB001	8/14/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	5000	MG/KG	110	48	10	
02NE88SB001	8/14/2002	CS	so	AK103	Residual Range Organics	39	MG/KG	110	4.5	1	VJ
02NE88SB001	8/14/2002	CS	so	D4129	Total Organic Carbon (TOC)	0.15	PERCENT	0.05	0.02	1	
02NE88SB001	8/14/2002	CS	so	E160.3M	Total Solids	94.7	PERCENT			1	
02NE88SB001	8/14/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.0053	.00023	1	
02NE88SB001	8/14/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0053	.00017	1	
02NE88SB001	8/14/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0053	.00021	1	
02NE88SB001	8/14/2002	CS	so	SIM	Benzo(a)anthracene	.00051	MG/KG	.0053	.00014	1	VJ
02NE88SB001	8/14/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0053	.00015	1	
ULINEODODDUUI	0/14/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0007	MG/KG	.0053	.00015	1	VJ

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB001	8/14/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00026	MG/KG	.0053	.00011	1	VJ
02NE88SB001	8/14/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0053	.00016	1	
02NE88SB001	8/14/2002	CS	SO	SIM	Chrysene	.001	MG/KG	.0053	.00016	1	VJ
02NE88SB001	8/14/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0053	.0002	1	
02NE88SB001	8/14/2002	CS	SO	SIM	Fluoranthene	ND	MG/KG	.0053	.00018	1	
02NE88SB001	8/14/2002	CS	SO	SIM	Fluorene	ND	MG/KG	.0053	.00018	1	
02NE88SB001	8/14/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	.00024	MG/KG	.0053	.00016	1	VJ
02NE88SB001	8/14/2002	CS	so	SIM	Naphthalene	.0022	MG/KG	.0053	.00023	1	VJ
02NE88SB001	8/14/2002	CS	SO	SIM	Phenanthrene	ND	MG/KG	.0053	.00016	1	
02NE88SB001	8/14/2002	CS	SO	SIM	Pyrene	.0043	MG/KG	.0053	.00012	1	VJ
02NE88SB001	8/14/2002	CS	SO	SW6020	Chromium	6.5	MG/KG	0.21	0.01	5	
02NE88SB001	8/14/2002	CS	SO	SW6020	Lead	50.5	MG/KG	0.05	0.03	5	
02NE88SB001	8/14/2002	CS	SO	SW6020	Zinc	57.6	MG/KG	0.53	0.06	5	
02NE88SB001	8/14/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.043	1	
02NE88SB001	8/14/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0074	1	
02NE88SB001	8/14/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.017	1	
02NE88SB001	8/14/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0065	1	
02NE88SB001	8/14/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0045	1	
02NE88SB001	8/14/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0087	1	
		CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0049	1	
02NE88SB001	8/14/2002		SO	SW8260B	Benzene	ND	MG/KG	0.012	0.012	1	
02NE88SB001	8/14/2002	CS		SW8260B	Ethylbenzene	ND	MG/KG	0.027	0.012	i	
02NE88SB001	8/14/2002	CS	so			ND	MG/KG	0.027	0.0083	i	
02NE88SB001	8/14/2002	CS	so	SW8260B	o-Xylene	ND	MG/KG	0.027	0.011	1	
02NE88SB001	8/14/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.027	0.02	1	
02NE88SB001	8/14/2002	CS	SO	SW8260B	Xylene, Isomers m & p	4.9	MG/KG	2.7	2.1	1 1	
02NE88SB002	8/14/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	1400	MG/KG	11	4.7	1	
02NE88SB002	8/14/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)		MG/KG	110	4.4	1	VJ
02NE88SB002	8/14/2002	CS	SO	AK103	Residual Range Organics	16		0.05	0.02	1	40
02NE88SB002	8/14/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.13	PERCENT	0.05	0.02	1	
02NE88SB002	8/14/2002	CS	SO	E160.3M	Total Solids	96.1	PERCENT MG/KG	0050	.00022	1	
02NE88SB002	8/14/2002	CS	SO	SIM	Acenaphthene	ND		.0052 .0052	.00022	1	
02NE88SB002	8/14/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG		.00017	1	
02NE88SB002	8/14/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0052	.0002		
02NE88SB002	8/14/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0052	.00014	1	
02NE88SB002	8/14/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0052	.00015	1	VJ
02NE88SB002	8/14/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00031	MG/KG	.0052	.00015	1	V0
02NE88SB002	8/14/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0052		1	
02NE88SB002	8/14/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0052	.00016	1	VJ
02NE88SB002	8/14/2002	CS	SO	SIM	Chrysene	.00066	MG/KG	.0052	.00016		٧٥
02NE88SB002	8/14/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0052	.00019	1	
02NE88SB002	8/14/2002	CS	SO	SIM	Fluoranthene	ND	MG/KG	.0052	.00018	1 1	
02NE88SB002	8/14/2002	CS	so	SIM	Fluorene	ND	MG/KG	.0052	.00018	<u> </u>	
02NE88SB002	8/14/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0052	.00016	1 1	VJ
02NE88SB002	8/14/2002	CS	SO	SIM	Naphthalene	.00038	MG/KG	.0052	.00022	1	VJ
02NE88SB002	8/14/2002	CS	SO	SIM	Phenanthrene	ND	MG/KG	.0052	.00016	1	- VI
02NE88SB002	8/14/2002	CS	SO	SIM	Pyrene	.0022	MG/KG	.0052	.00012	1 -	VJ
02NE88SB002	8/14/2002	CS	SO	SW6020	Chromium	4.38	MG/KG	0.21	0.01	5	
02NE88SB002	8/14/2002	CS	SO	SW6020	Lead	37.7	MG/KG	0.05	0.03	5	
02NE88SB002	8/14/2002	CS	SO	SW6020	Zinc	54.5	MG/KG	0.52	0.06	5	
02NE88SB002	8/14/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.042	1	
02NE88SB002	8/14/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.21	0.0073	1	
02NE88SB002	8/14/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.017	1	



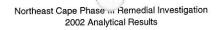
sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB002	8/14/2002	CS	SO	SW8082	PCB-1242 (Araclor 1242)	ND	MG/KG	0.11	0.0064	1	
02NE88SB002	8/14/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0044	1	
02NE88SB002	8/14/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0086	1	
02NE88SB002	8/14/2002	CS	so	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0048	1	
02NE88SB002	8/14/2002	CS	so	SW8260B	Benzene	ND	MG/KG	0.011	0.011	1	
02NE8BSB002	8/14/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.025	0.011	11	
02NE88SB002	8/14/2002	cs	so	SW8260B	o-Xylene	ND	MG/KG	0.025	0.0082	1	
02NE88SB002	8/14/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.025	0.011	1	
02NE88SB002	8/14/2002	CS	so	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.025	0.02	1	
02NE88SB003	8/14/2002	cs	so	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	3	2.3	1	
02NE88SB003	8/14/2002	CS	so	AK102	Diesel Range Organics (C10-C25)	ND	MG/KG	12	5.2	1	
02NE88SB003	8/14/2002	CS	SO	AK103	Residual Range Organics	6	MG/KG	120	4.9	1	VJ
02NE88SB003	8/14/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.19	PERCENT	0.05	0.02	1	
02NE88SB003	8/14/2002	CS	SO	E160.3M	Total Solids	87.5	PERCENT			1	
02NE88SB003	8/14/2002	ČS	SO	SIM	Acenaphthene	ND	MG/KG	.0058	.00024	1	
02NE88SB003	8/14/2002	cs	SO	SIM	Acenaphthylene	ND	MG/KG	.0058	.00019	1	
02NE88SB003	8/14/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0058	.00022	1	
02NE88\$B003	8/14/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0058	.00015	1	:
02NE88SB003	8/14/2002	CS CS	\$O	SIM	Benzo(a)pyrene	ND	MG/KG	.0058	.00016	1	
02NE88\$B003	8/14/2002	cs	SO	SIM	Benzo(b)fluoranthene	.00045	MG/KG	.0058	.00016	1	VJ
02NE88\$B003	8/14/2002	CS CS	SO	SIM	Benzo(g,h,i)perylene	.00065	MG/KG	.0058	.00012	1	VJ
02NE88\$B003	8/14/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0058	.00018	1	
02NE88\$B003	8/14/2002	cs	so	SIM	Chrysene	ND	MG/KG	.0058	.00018	1	
02NE88SB003	8/14/2002	CS CS	SO	SIM	Dibenzo(a,h)anthracene	.00048	MG/KG	.0058	.00021	1	VJ
02NE88SB003	8/14/2002	CS	so	SIM	Fluoranthene	ND	MG/KG	.0058	.0002	1	
02NE88SB003	8/14/2002	CS	so	SIM	Fluorene	ND	MG/KG	.0058	.0002	1	
02NE88SB003	8/14/2002	CS	so	SIM	Indeno(1,2,3-cd)pyrene	.00048	MG/KG	.0058	.00018	1	VJ
02NE88SB003	8/14/2002	CS	SO	SIM	Naphthalene	.001	MG/KG	.0058	.00024	1	VJ
	8/14/2002	CS	so	SIM	Phenanthrene	.00026	MG/KG	.0058	.00018	1	VJ
02NE88SB003	8/14/2002	CS	so	SIM	Pyrene	ND	MG/KG	.0058	.00013	1	
02NE88SB003 02NE88SB003	8/14/2002	CS	so_	SW6020	Chromium	16.1	MG/KG	0.23	0.01	5	
02NE88SB003	8/14/2002	CS	so	SW6020	Lead	24.4	MG/KG	0.06	0.03	5	"
	8/14/2002	CS	so	SW6020	Zinc	55.2	MG/KG	0.57	0.07	5	
02NE88SB003		CS	so	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.12	0.046	1	
02NE88SB003	8/14/2002		SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.23	0.008	1	
02NE88SB003	8/14/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.12	0.019	1	-
02NE88SB003	8/14/2002	CS		SW8082	PCB-1232 (Arodor 1232)	ND	MG/KG	0.12	0,007	1	
02NE88SB003	8/14/2002	CS	SO		PCB-1242 (Aroclor 1242)	ND	MG/KG	0.12	0.0048	1	
02NE88SB003	8/14/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248) PCB-1254 (Aroclor 1254)	ND	MG/KG	0.12	0.0094	1	
02NE88SB003	8/14/2002	CS	SO	SW8082		ND	MG/KG	0.12	0.0053	1	
02NE88SB003	8/14/2002	CS	so	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.014	0.012	1	
02NE88SB003	8/14/2002	cs	SO	SW8260B	Benzene	ND ND	MG/KG	0.035	0.012	1	
02NE88SB003	8/14/2002	cs	SO	SW8260B	Ethylbenzene	ND ND	MG/KG	0.035	0.009	1	
02NE88SB003	8/14/2002	CS	so	SW8260B	o-Xylene	ND ND	MG/KG	0.035	0.009	1	
02NE88\$B003	8/14/2002	CS	SO	SW8260B	Toluene	ND ND	MG/KG MG/KG	0.035	0.012	 	
02NE88SB003	8/14/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND ND	MG/KG MG/KG	3,6	2.2	 	
02NE88SB004	8/14/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND ND		3.5 11	4.8	1 -	
02NE88SB004	8/14/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)		MG/KG MG/KG	110	4.5	 	VJ
02NE88SB004	8/14/2002	CS	SO	AK103	Residual Range Organics	7.1		0.05	0.02	 	
02NE88SB004	8/14/2002	CS	so	D4129	Total Organic Carbon (TOC)	0.18	PERCENT	0.05	0.02	1	
02NE88SB004	8/14/2002	CS	so	E160.3M	Total Solids	94.4	PERCENT	0050	.00023	1	,
02NE88SB004	8/14/2002	CS	so	SIM	Acenaphthene	ND ND	MG/KG	.0053	.00023		
02NE88SB004	8/14/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0053	.00017	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB004	8/14/2002	cs	SO	SIM	Anthracene	ND	MG/KG	.0053	.00021	1	
02NE88SB004	8/14/2002	CS	so	SIM	Benzo(a)anthracene	ND	MG/KG	.0053	.00014	1	
02NE88SB004	8/14/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0053	.00015	1	
02NE88SB004	8/14/2002	cs	SO	SIM	Benzo(b)fluoranthene	.0003	MG/KG	.0053	.00015	11	VJ
02NE88SB004	8/14/2002	ČS	so	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0053	.00011	1	
02NE88SB004	8/14/2002	CS	so	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0053	.00016	1	
02NE88SB004	8/14/2002	cs	so	SIM	Chrysene	ND	MG/KG	.0053	.00016	1	
02NE88SB004	8/14/2002	cs	so	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0053	.0002	1	
02NE88SB004	8/14/2002	CS CS	so	SIM	Fluoranthene	ND	MG/KG	.0053	.00019	1	
02NE88SB004	8/14/2002	CS	so	SIM	Fluorene	ND	MG/KG	.0053	.00019	1	
02NE88\$B004	8/14/2002	CS CS	so	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0053	.00016	1	
02NE88\$B004	8/14/2002	CS	so	SIM	Naphthalene	.00056	MG/KG	.0053	.00023	1	VJ
02NE88SB004	8/14/2002	CS	SO	SIM	Phenanthrene	ND	MG/KG	.0053	.00016	1	
	8/14/2002	CS CS	SO	SIM	Pyrene	ND	MG/KG	.0053	.00012	1	
02NE88SB004	8/14/2002	CS CS	SO	SW6020	Chromium	8	MG/KG	0.21	0.01	5	
02NE88SB004		CS	so	SW6020	Lead	14.9	MG/KG	0.05	0.03	5	
02NE88SB004	8/14/2002		SO	SW6020	Zinc	36.1	MG/KG	0.53	0.06	5	
02NE88SB004	8/14/2002	CS CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.043	1	
02NE88SB004	8/14/2002	CS	SO	SW8082 SW8082	PCB-1016 (Arodor 1016)	ND	MG/KG	0.22	0.0075	1	
02NE88\$B004	8/14/2002	CS			PCB-1221 (Arodor 1221) PCB-1232 (Arodor 1232)	ND	MG/KG	0.11	0.017	1	
02NE88\$B004	8/14/2002	cs	50	SW8082	PCB-1232 (Arodior 1232) PCB-1242 (Arodior 1242)	ND	MG/KG	0.11	0.0065	1	
02NE88SB004	8/14/2002	CS	SO	SW8082		ND	MG/KG	0.11	0.0045	1	
02NE88SB004	8/14/2002	cs	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0043	1	
02NE88\$B004	8/14/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0049		
02NE88SB004	8/14/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)			0.015	0.0049	1	
02NE88SB004	8/14/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.015	0.012	1	
02NE88SB004	8/14/2002	CS	\$O	SW8260B	Ethylbenzene	ND	MG/KG	0.037	0.0084	1	
02NE88SB004	8/14/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG		100	1	
02NE88SB004	8/14/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.037	0.011	1	
02NE88SB004	8/14/2002	CS	SO	SW8260B	Хуleпе, Isomers m & р	ND	MG/KG	0.037	0.02		
02NE88SB005	8/15/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	6	2.4	1	VJ
02NE88SB005	8/15/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	7.6	MG/KG	12	5.4	1	VJ
02NE88SB005	8/15/2002	CS	SO	AK103	Residual Range Organics	120	MG/KG	120	5.1	1	VJ
02NE88SB005	8/15/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.82	PERCENT	0.05	0.02	1	
02NE88SB005	8/15/2002	CS	SO	E160.3M	Total Solids	84.1	PERCENT			1	
02NE88SB005	8/15/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.006	.00025	1	
02NE88SB005	8/15/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.006	.0002	1 1	
02NE88SB005	8/15/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.006	.00023	1	
02NE88SB005	8/15/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.006	.00016	1	
02NE88SB005	8/15/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.006	.00017	1	
02NE88SB005	8/15/2002	CS	\$O	SIM	Benzo(b)fluoranthene	.00032	MG/KG	.006	.00017	1	VJ
02NE88SB005	8/15/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.006	.00012	1	
02NE88SB005	8/15/2002	CS	so	SIM	Benzo(k)fluoranthene	ND	MG/KG	.006	.00018	1	
02NE88SB005	8/15/2002	CS	SO	SIM	Chrysene	.00032	MG/KG	.006	.00018	1	VJ
02NE88SB005	8/15/2002	CS	so	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.006	.00022	1	
02NE88SB005	8/15/2002	CS	SO	SIM	Fluoranthene	ND	MG/KG	.006	.00021	1	
02NE88SB005	8/15/2002	CS	SO	SIM	Fluorene	ND	MG/KG	.006	.00021	11	
02NE88SB005	8/15/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.006	.00018	1	
02NE88SB005	8/15/2002	CS	ŞO	SIM	Naphthalene	.00081	MG/KG	.006	.00025	1	٧J
02NE88SB005	8/15/2002	CS	SO	SIM	Phenanthrene	.00051	MG/KG	.006	.00018	11	VJ
02NE88SB005	8/15/2002	CS	SO	SIM	Pyrene	.00017	MG/KG	.006	.00014	11	VJ
02NE88SB005	8/15/2002	CS	SO	SW6020	Chromium	22.3	MG/KG	0.24	0.01	5	
	8/15/2002	CS CS	so	SW6020	Lead	15.1	MG/KG	0.06	0.04	5	
02NE88\$B005	8/15/2002	1 05	30	3440020	LEGU	10.1					



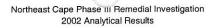
sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB005	8/15/2002	CS	SO	SW6020	Zinc	45.9	MG/KG	0.6	0.07	5	
02NE88SB005	8/15/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.12	0.048	1	
02NE88SB005	8/15/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.24	0.0084	1	
02NE88SB005	8/15/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.12	0.02	1	
02NE88SB005	8/15/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.12	0.0073	1	
02NE88SB005	8/15/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.12	0.005	1	
02NE88SB005	8/15/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.12	0.0098	1	
02NE88SB005	8/15/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.12	0.0055	1	
02NE88SB005	8/15/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.023	0.013	1	
02NE88SB005	8/15/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.058	0.012	1	
02NE88SB005	8/15/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.058	0.0094	1	
02NE88SB005	8/15/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.058	0.012	1	
02NE88SB005	8/15/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.058	0.023	1	
02NE88SB006	8/17/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	51	MG/KG	5.4	2.2	1	
02NE88SB006	8/17/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	3700	MG/KG	11	5	1	
02NE88SB006	8/17/2002	CS	SO	AK103	Residual Range Organics	24	MG/KG	110	4.6	1	VJ
02NE88SB006	8/17/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.16	PERCENT	0.05	0.02	1	
02NE88SB006	8/17/2002	CS	SO	E160.3M	Total Solids	91.7	PERCENT			1	
02NE88SB006	8/17/2002	CS	SO	SIM	Acenaphthene	.15	MG/KG	.0055	.00023	1	
02NE88SB006	8/17/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	1	
02NE88SB006	8/17/2002	CS	SO	SIM	Anthracene	.034	MG/KG	.0055	.00021	1	
02NE88SB006	8/17/2002	CS	SO	SIM	Benzo(a)anthracene	.0011	MG/KG	.0055	.00015	1	VJ
	8/17/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	
02NE88SB006		CS	SO	SIM	Benzo(b)fluoranthene	.00074	MG/KG	.0055	.00016	1	VJ
02NE88SB006	8/17/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0055	.00010	1	
02NE88SB006	8/17/2002		SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	
02NE88SB006	8/17/2002	CS				.0027	MG/KG	.0055	.00017	1	VJ
02NE88SB006	8/17/2002	CS	SO	SIM	Chrysene	ND	MG/KG	.0055	.00017	1	
02NE88SB006	8/17/2002	CS	SO		Dibenzo(a,h)anthracene	.0041	MG/KG	.0055	.00019	i	VJ
02NE88SB006	8/17/2002	CS	SO	SIM	Fluoranthene	.36	MG/KG	.0055	.00019	1	
02NE88SB006	8/17/2002	CS	SO	SIM	Fluorene			.0055	.00019	1	
02NE88SB006	8/17/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND 1.5	MG/KG MG/KG	.055	.0023	10	
02NE88SB006	8/17/2002	CS	so	SIM	Naphthalene	1.5	MG/KG	.0055	.0023	1	
02NE88SB006	8/17/2002	CS	SO	SIM	Phenanthrene	.46	MG/KG	.0055	.00017	1	
02NE88SB006	8/17/2002	CS	SO	SIM	Pyrene			0.22	0.01	5	
02NE88SB006	8/17/2002	CS	SO	SW6020	Chromium	13.1	MG/KG MG/KG	0.22	0.03	5	VJ
02NE88SB006	8/17/2002	CS	SO	SW6020	Lead	26.2	MG/KG	0.05	0.03	5	
02NE88SB006	8/17/2002	CS	SO	SW6020	Zinc	52.8	MG/KG MG/KG	0.55	0.07	1	
02NE88SB006	8/17/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND		0.11	0.0077	1	
02NE88SB006	8/17/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG		0.0077	1	
02NE88SB006	8/17/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11		1	
02NE88SB006	8/17/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
02NE88SB006	8/17/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046		
02NE88SB006	8/17/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.009	1	
02NE88SB006	8/17/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB006	8/17/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.021	0.012	1	171
02NE88SB006	8/17/2002	CS	SO	SW8260B	Ethylbenzene	0.34	MG/KG	0.051	0.011	1	VJ
02NE88SB006	8/17/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.051	0.0086	1	
02NE88SB006	8/17/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.051	0.011	1	
02NE88SB006	8/17/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.31	MG/KG	0.051	0.021	1	VJ
02NE88SB007	8/17/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	44	MG/KG	6.7	2.8	1	
02NE88SB007	8/17/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	12000	MG/KG	140	62	10	
02NE88SB007	8/17/2002	CS	SO	AK103	Residual Range Organics	3700	MG/KG	1400	58	10	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB007	8/17/2002	CS	SO	D4129	Total Organic Carbon (TOC)	15.3	PERCENT	0.05	0.02	1	
02NE88SB007	8/17/2002	CS	SO	E160.3M	Total Solids	73.7	PERCENT			1	
02NE88SB007	8/17/2002	CS	SO	SIM	Acenaphthene	.29	MG/KG	.034	.0015	1	VHB
02NE88SB007	8/17/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.034	.0011	1	
02NE88SB007	8/17/2002	CS	SO	SIM	Anthracene	.026	MG/KG	.034	.0013	1	VJ
02NE88SB007	8/17/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.034	.00089	1	
02NE88SB007	8/17/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.034	.00095	1	
02NE88SB007	8/17/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0044	MG/KG	.034	.00095	1	VJ
02NE88SB007	8/17/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00094	MG/KG	.034	.00068	1	VJ
02NE88SB007	8/17/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.034	.0011	1	
02NE88SB007	8/17/2002	CS	SO	SIM	Chrysene	.0033	MG/KG	.034	.0011	1	VJ
02NE88SB007	8/17/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.034	.0013	1	
02NE88SB007	8/17/2002	CS	SO	SIM	Fluoranthene	.0042	MG/KG	.034	.0012	1	VJ
02NE88SB007	8/17/2002	CS	SO	SIM	Fluorene	.8	MG/KG	.034	.0012	1	VHB
02NE88SB007	8/17/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.034	.0011	1	
02NE88SB007	8/17/2002	CS	SO	SIM	Naphthalene	5.9	MG/KG	.034	.0015	1	VHB
02NE88SB007	8/17/2002	CS	SO	SIM	Phenanthrene	.59	MG/KG	.034	.0011	1	VHB
02NE88SB007	8/17/2002	CS	SO	SIM	Pyrene	.01	MG/KG	.034	.00075	1	VJ
02NE88SB007	8/17/2002	CS	SO	SW6020	Chromium	17.3	MG/KG	0.23	0.01	5	
		CS	SO	SW6020	Lead	11	MG/KG	0.06	0.03	5	
02NE88SB007	8/17/2002			SW6020	Zinc	17.3	MG/KG	0.57	0.07	5	
02NE88SB007	8/17/2002	CS	SO		PCB-1016 (Aroclor 1016)	ND	MG/KG	0.14	0.055	1	
02NE88SB007	8/17/2002	CS	SO	SW8082		ND	MG/KG	0.14	0.0095	1	
02NE88SB007	8/17/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)			0.14	0.0093	1	
02NE88SB007	8/17/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG MG/KG	0.14	0.0083	1	
02NE88SB007	8/17/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND			0.0083	1	
02NE88SB007	8/17/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.14	0.0057	1	
02NE88SB007	8/17/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.14	0.0063	1	
02NE88SB007	8/17/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.027	0.0063	1	
02NE88SB007	8/17/2002	CS	SO	SW8260B	Benzene	0.047	MG/KG	0.027	0.013	1	
02NE88SB007	8/17/2002	CS	so	SW8260B	Ethylbenzene	0.54	MG/KG MG/KG	0.066	0.014	1	
02NE88SB007	8/17/2002	CS	SO	SW8260B	o-Xylene	0.89		0.066	0.011	1	
02NE88SB007	8/17/2002	CS	SO	SW8260B	Toluene	0.083	MG/KG		0.014	1	
02NE88SB007	8/17/2002	CS	SO	SW8260B	Xylene, Isomers m & p	1.6	MG/KG	0.066		1	VHB
02NE88SB008	8/17/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	54	MG/KG	3.5	2.2	1	νпь
02NE88SB008	8/17/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	2600	MG/KG	11	5	1	VJ
02NE88SB008	8/17/2002	CS	SO	AK103	Residual Range Organics	16	MG/KG	110	4.7		VJ
02NE88SB008	8/17/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.18	PERCENT	0.05	0.02	1	
02NE88SB008	8/17/2002	CS	SO	E160.3M	Total Solids	91.6	PERCENT				
02NE88SB008	8/17/2002	CS	SO	SIM	Acenaphthene	.11	MG/KG	.0055	.00023	11	
02NE88SB008	8/17/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	11	
02NE88SB008	8/17/2002	CS	SO	SIM	Anthracene	.015	MG/KG	.0055	.00021	1	
02NE88SB008	8/17/2002	CS	SO	SIM	Benzo(a)anthracene	.00065	MG/KG	.0055	.00015	1	VJ
02NE88SB008	8/17/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	
02NE88SB008	8/17/2002	CS	SO	SIM	Benzo(b)fluoranthene	ND	MG/KG	.0055	.00016	1	
02NE88SB008	8/17/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0055	.00011	1	
02NE88SB008	8/17/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	
02NE88SB008	8/17/2002	CS	SO	SIM	Chrysene	.0014	MG/KG	.0055	.00017	1	VJ
02NE88SB008	8/17/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	1	
02NE88SB008	8/17/2002	CS	SO	SIM	Fluoranthene	.0017	MG/KG	.0055	.00019	1	VJ
02NE88SB008	8/17/2002	CS	SO	SIM	Fluorene	.26	MG/KG	.0055	.00019	1	
251150000000			SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0055	.00017	1	
02NE88SB008	8/17/2002	CS	50		indend(1,2,0 cd)pyrone	110				20	



sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB008	8/17/2002	CS	so	SIM	Phenanthrene	.28	MG/KG	.0055	.00017	1	
02NE88SB008	8/17/2002	CS	SO	SIM	Pyrene	.0047	MG/KG	.0055	.00013	1	VJ
02NE88SB008	8/17/2002	CS	SO	SW6020	Chromium	3.73	MG/KG	0.22	0.01	5	
02NE88SB008	8/17/2002	CS	so	SW6020	Lead	87	MG/KG	0.05	0.03	5	
02NE88SB008	8/17/2002	CS	SO	SW6020	Zinc	56.2	MG/KG	0.55	0.07	5	
02NE88SB008	8/17/2002	CS	so	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB008	8/17/2002	CS	so	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0077	1	
02NE88SB008	8/17/2002	CS	so	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB008	8/17/2002	CS	so	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
02NE88SB008	8/17/2002	CS	so	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88SB008	8/17/2002	CS	so	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.009	1	
02NE88SB008	8/17/2002	CS	so	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
		CS	SO	SW8260B	Benzene	ND	MG/KG	0.018	0.012	1	
02NE88SB008	8/17/2002 8/17/2002	CS	so	SW8260B	Ethylbenzene	0.57	MG/KG	0.044	0.011	1	
02NE88SB008		CS	so	SW8260B	o-Xylene	0.01	MG/KG	0.044	0.0086	1	VJ
02NE88SB008	8/17/2002 8/17/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.044	0.011	1	
02NE88SB008	8/17/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.29	MG/KG	0.044	0.021	1	
02NE88SB008		CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	2.8	2.2	1	
02NE88SB009	8/17/2002	CS	SO	AK101 AK102	Diesel Range Organics (C10-C25)	380	MG/KG	54	25	1	
02NE88SB009	8/17/2002	CS	SO	AK102 AK103	Residual Range Organics	3400	MG/KG	540	23	1	
02NE88SB009	8/17/2002				Total Organic Carbon (TOC)	0.95	PERCENT	0.05	0.02	1	
02NE88SB009	8/17/2002	CS	so	D4129	Total Solids	92.9	PERCENT	0.03	0.02	1	
02NE88SB009	8/17/2002	CS	so	E160.3M		.0043	MG/KG	.0054	.00023	1 1	VJ
02NE88SB009	8/17/2002	CS	SO	SIM	Acenaphthene	.00055	MG/KG	.0054	.00023	1	VJ
02NE88SB009	8/17/2002	CS	so	SIM	Acenaphthylene	.0054	MG/KG	.0054	.00010	1	
02NE88SB009	8/17/2002	CS	SO	SIM	Anthracene		MG/KG	.0054	.00021	1	
02NE88SB009	8/17/2002	CS	SO	SIM	Benzo(a)anthracene	.03	MG/KG	.0054	.00014	1	
02NE88SB009	8/17/2002	CS	SO	SIM	Benzo(a)pyrene	.028	MG/KG	.0054	.00016	1	
02NE88SB009	8/17/2002	CS	SO	SIM	Benzo(b)fluoranthene	.039	MG/KG	.0054	.00010	1	
02NE88SB009	8/17/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.018			.00017	1	
02NE88SB009	8/17/2002	CS	so	SIM	Benzo(k)fluoranthene	.023	MG/KG	.0054	.00017	1	
02NE88SB009	8/17/2002	CS	SO	SIM	Chrysene	.087	MG/KG		.00017	1	VJ
02NE88SB009	8/17/2002	CS	so	SIM	Dibenzo(a,h)anthracene	.0043	MG/KG	.0054	.0002	 	V0
02NE88SB009	8/17/2002	CS	SO	SIM	Fluoranthene	.073	MG/KG	.0054		 	VJ
02NE88SB009	8/17/2002	CS	SO	SIM	Fluorene	.0045	MG/KG	.0054	.00019	1	٧٥
02NE88SB009	8/17/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	.016	MG/KG	.0054	.00017	1	VJ
02NE88SB009	8/17/2002	CS	so	SIM	Naphthalene	.0041	MG/KG	.0054	.00023		VJ
02NE88SB009	8/17/2002	CS	so	SIM	Phenanthrene	.056	MG/KG	.0054	.00017		
02NE88SB009	8/17/2002	CS	so	SIM	Pyrene	.08	MG/KG	.0054	.00012	1	
02NE88SB009	8/17/2002	CS	so	SW6020	Chromium	42.3	MG/KG	0.22	0.01	5	
02NE88SB009	8/17/2002	CS	SO	SW6020	Lead	42.4	MG/KG	0.05	0.03	5	
02NE88SB009	8/17/2002	CS	SO	SW6020	Zinc	92.6	MG/KG	0.54	0.06	5	
02NE88SB009	8/17/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB009	8/17/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0076	1	
02NE88SB009	8/17/2002	CS	so	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB009	8/17/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0066	1	
02NE88SB009	8/17/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	11	
02NE88SB009	8/17/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0089	11	
02NE88SB009	8/17/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	0.59	MG/KG	0.11	0.005	1	
02NE88SB009	8/17/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.012	0.012	1	
02NE88SB009	8/17/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.025	0.011	1	
02NE88SB009	8/17/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.025	0.0085	1	
OZIVE OGODOUS	8/17/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.025	0.011	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB009	8/17/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.025	0.021	1	
02NE88SB010	8/17/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	4	2.3	1	
02NE88SB010	8/17/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	21	MG/KG	11	5.1	1	
02NE88SB010	8/17/2002	CS	SO	AK103	Residual Range Organics	25	MG/KG	110	4.7	1	VJ
02NE88SB010	8/17/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.61	PERCENT	0.05	0.02	1	
02NE88SB010	8/17/2002	CS	SO	E160.3M	Total Solids	90	PERCENT			1	
02NE88SB010	8/17/2002	CS	SO	SIM	Acenaphthene	.0006	MG/KG	.0056	.00024	1	VJ
02NE88SB010	8/17/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0056	.00018	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0056	.00022	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0056	.00015	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0056	.00016	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Benzo(b)fluoranthene	ND	MG/KG	.0056	.00016	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0056	.00012	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0056	.00017	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Chrysene	ND	MG/KG	.0056	.00017	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0056	.0002	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Fluoranthene	ND	MG/KG	.0056	.00019	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Fluorene	.0021	MG/KG	.0056	.00019	1	VJ
02NE88SB010	8/17/2002	CS	so	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0056	.00017	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Naphthalene	.0037	MG/KG	.0056	.00024	1	VJ
	8/17/2002	CS	so	SIM	Phenanthrene	.00081	MG/KG	.0056	.00017	1	VJ
02NE88SB010		CS	SO	SIM	Pyrene	ND	MG/KG	.0056	.00013	1	
02NE88SB010	8/17/2002	CS	SO	SW6020	Chromium	4.5	MG/KG	0.22	0.01	5	
02NE88SB010	8/17/2002	CS	SO	SW6020	Lead	13.1	MG/KG	0.06	0.03	5	
02NE88SB010	8/17/2002		SO	SW6020	Zinc	20.1	MG/KG	0.56	0.07	5	
02NE88SB010	8/17/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.045	1	
02NE88SB010	8/17/2002	CS		SW8082 SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0078	1	
02NE88SB010	8/17/2002	CS	SO SO	SW8082 SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.11	0.018	1	
02NE88SB010	8/17/2002	CS		SW8082 SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.0068	1	
02NE88SB010	8/17/2002	CS	SO		PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0047	1	
02NE88SB010	8/17/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248) PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0092	i	
02NE88SB010	8/17/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254) PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0052	1	
02NE88SB010	8/17/2002	CS	SO	SW8082		ND	MG/KG	0.014	0.012	1	
02NE88SB010	8/17/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.034	0.011	i	
02NE88SB010	8/17/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.034	0.0088	1	
02NE88SB010	8/17/2002	CS	SO	SW8260B	o-Xylene Toluene	ND	MG/KG	0.034	0.011	1	
02NE88SB010	8/17/2002	CS	SO	SW8260B		ND	MG/KG	0.034	0.021	1	
02NE88SB010	8/17/2002	CS	SO	SW8260B	Xylene, Isomers m & p	130	MG/KG	3.3	2.2	1	VHB
02NE88SB011	8/18/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	3100	MG/KG	11	5	1	
02NE88SB011	8/18/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	23	MG/KG	110	4.7	1	VJ
02NE88SB011	8/18/2002	CS	SO	AK103	Residual Range Organics		PERCENT	0.05	0.02	1	
02NE88SB011	8/18/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.16		0.05	0.02	1	
02NE88SB011	8/18/2002	CS	SO	E160.3M	Total Solids	91.1	PERCENT	0055	.00024	1	
02NE88SB011	8/18/2002	CS	SO	SIM	Acenaphthene	.1	MG/KG	.0055	.00024	1	
02NE88SB011	8/18/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055		1	VJ
02NE88SB011	8/18/2002	CS	SO	SIM	Anthracene	.0035	MG/KG	.0055	.00021	1	VJ
02NE88SB011	8/18/2002	CS	so	SIM	Benzo(a)anthracene	.00023	MG/KG	.0055	.00015	1	40
02NE88SB011	8/18/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	VJ
02NE88SB011	8/18/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0005	MG/KG	.0055	.00016		٧J
02NE88SB011	8/18/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0055	.00011	1 1	
02NE88SB011	8/18/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	1/1
02NE88SB011	8/18/2002	CS	SO	SIM	Chrysene	.00064	MG/KG	.0055	.00017	1	VJ
02NE88SB011	8/18/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	1	

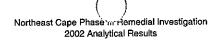


sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB011	8/18/2002	CS	so	SIM	Fluoranthene	.0008	MG/KG	.0055	.00019	1	VJ
02NE88SB011	8/18/2002	CS	SO	SIM	Fluorene	.23	MG/KG	.0055	.00019	1	
02NE88SB011	8/18/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0055	.00017	1	
02NE88SB011	8/18/2002	CS	SO	SIM	Naphthalene	4.1	MG/KG	.28	.012	50	
02NE88SB011	8/18/2002	CS	SO	SIM	Phenanthrene	.11	MG/KG	.0055	.00017	1	
02NE88SB011	8/18/2002	CS	SO	SIM	Pyrene	.0022	MG/KG	.0055	.00013	1	VJ
02NE88SB011	8/18/2002	CS	SO	SW6020	Chromium	12.8	MG/KG	0.22	0.01	5	
02NE88SB011	8/18/2002	CS	SO	SW6020	Lead	13.9	MG/KG	0.05	0.03	5	
02NE88SB011	8/18/2002	CS	SO	SW6020	Zinc	34.1	MG/KG	0.55	0.07	5	y
02NE88SB011	8/18/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB011	8/18/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0077	1	
02NE88SB011	8/18/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB011	8/18/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
02NE88SB011	8/18/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0047	1	
02NE88SB011	8/18/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0091	1	
	8/18/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB011	8/18/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.012	0.012	1	
02NE88SB011			SO	SW8260B	Ethylbenzene	0.36	MG/KG	0.026	0.012	1	
02NE88SB011	8/18/2002	CS				0.044	MG/KG	0.026	0.0087	1	
02NE88SB011	8/18/2002	CS	SO	SW8260B	o-Xylene	ND		0.026	0.0087	1	
02NE88SB011	8/18/2002	CS	SO	SW8260B	Toluene		MG/KG MG/KG	0.026	0.011	1	
02NE88SB011	8/18/2002	CS	so	SW8260B	Xylene, Isomers m & p	0.44			2.2	1	VHB
02NE88SB012	8/18/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	83	MG/KG	3	4.9	1	VIID
02NE88SB012	8/18/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	1200	MG/KG	11		1	VJ
02NE88SB012	8/18/2002	CS	SO	AK103	Residual Range Organics	30	MG/KG	110	4.6	1	٧٥
02NE88SB012	8/18/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.11	PERCENT	0.05	0.02	1	
02NE88SB012	8/18/2002	CS	so	E160.3M	Total Solids	92.4	PERCENT	2000	20000	1	
02NE88SB012	8/18/2002	CS	SO	SIM	Acenaphthene	.052	MG/KG	.0055	.00023		
02NE88SB012	8/18/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	1	VJ
02NE88SB012	8/18/2002	CS	SO	SIM	Anthracene	.0025	MG/KG	.0055	.00021		VJ
02NE88SB012	8/18/2002	CS	so	SIM	Benzo(a)anthracene	ND	MG/KG	.0055	.00015	1	
02NE88SB012	8/18/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	
02NE88SB012	8/18/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00089	MG/KG	.0055	.00016	1	VJ
02NE88SB012	8/18/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0055	.00011	11	
02NE88SB012	8/18/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	
02NE88SB012	8/18/2002	CS	so	SIM	Chrysene	ND	MG/KG	.0055	.00017	1	
02NE88SB012	8/18/2002	CS	so	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	1	
02NE88SB012	8/18/2002	CS	SO	SIM	Fluoranthene	.00044	MG/KG	.0055	.00019	1	VJ
02NE88SB012	8/18/2002	CS	SO	SIM	Fluorene	.17	MG/KG	.0055	.00019	1	
02NE88SB012	8/18/2002	CS	so	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0055	.00017	1	
02NE88SB012	8/18/2002	CS	SO	SIM	Naphthalene	1.1	MG/KG	.055	.0023	10	
02NE88SB012	8/18/2002	CS	SO	SIM	Phenanthrene	.063	MG/KG	.0055	.00017	1	
02NE88SB012	8/18/2002	CS	SO	SIM	Pyrene	.0015	MG/KG	.0055	.00012	1	VJ
02NE88SB012	8/18/2002	CS	SO	SW6020	Chromium	8.3	MG/KG	0.22	0.01	5	
02NE88SB012	8/18/2002	CS	SO	SW6020	Lead	14	MG/KG	0.05	0.03	5	
02NE88SB012	8/18/2002	CS	SO	SW6020	Zinc	33.4	MG/KG	0.54	0.06	5	
02NE88SB012	8/18/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB012	8/18/2002	CS	so	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0076	1	
02NE88SB012	8/18/2002	CS	so	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB012	8/18/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
02NE88SB012	8/18/2002	CS	so	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88SB012	8/18/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0089	1	Service and the service and th
	0/10/2002	UO	30	U110002	TOD ILOT (MODIOI ILOT)	0.0097	MG/KG	0.11	0.005		VJ

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB012	8/18/2002	CS	so	SW8260B	Benzene	ND	MG/KG	0.012	0.012	1	
02NE88SB012	8/18/2002	CS	SO	SW8260B	Ethylbenzene	0.11	MG/KG	0.028	0.011	1	
02NE88SB012	8/18/2002	CS	SO	SW8260B	o-Xylene	0.013	MG/KG	0.028	0.0085	1	VJ
02NE88SB012	8/18/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.028	0.011	1	
02NE88SB012	8/18/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.15	MG/KG	0.028	0.021	1	
02NE88SB013	8/18/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	140	MG/KG	2.9	2.2	11	VHB
02NE88SB013	8/18/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	12000	MG/KG	110	48	10	
02NE88SB013	8/18/2002	CS	SO	AK103	Residual Range Organics	55	MG/KG	110	4.5	1	VJ
02NE88SB013	8/18/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.16	PERCENT	0.05	0.02	1	
02NE88SB013	8/18/2002	CS	SO	E160.3M	Total Solids	94.7	PERCENT			1	
02NE88SB013	8/18/2002	CS	SO	SIM	Acenaphthene	.18	MG/KG	.0053	.00023	1	
02NE88SB013	8/18/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0053	.00017	1	
02NE88SB013	8/18/2002	CS	SO	SIM	Anthracene	.0097	MG/KG	.0053	.00021	1	
02NE88SB013	8/18/2002	CS	SO	SIM	Benzo(a)anthracene	.00077	MG/KG	.0053	.00014	1	VJ
02NE88SB013	8/18/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0053	.00015	1	
02NE88SB013	8/18/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00045	MG/KG	.0053	.00015	1	VJ
02NE88SB013	8/18/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.0002	MG/KG	.0053	.00011	1	VJ
	8/18/2002	CS	SO	SIM	Benzo(k)fluoranthene	.00018	MG/KG	.0053	.00016	1	VJ
02NE88SB013 02NE88SB013	8/18/2002	CS	SO	SIM	Chrysene	.0015	MG/KG	.0053	.00016	1	VJ
	8/18/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0053	.0002	1	
02NE88SB013	8/18/2002	CS	SO	SIM	Fluoranthene	.0019	MG/KG	.0053	.00018	1	VJ
02NE88SB013		CS	SO	SIM	Fluorene	.52	MG/KG	.0053	.00018	1	
02NE88SB013	8/18/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	.00017	MG/KG	.0053	.00016	1	VJ
02NE88SB013	8/18/2002			SIM		7.9	MG/KG	.27	.012	50	
02NE88SB013	8/18/2002	CS	SO		Naphthalene Phenanthrene	.26	MG/KG	.0053	.00016	1	
02NE88SB013	8/18/2002	CS	SO	SIM		.0048	MG/KG	.0053	.00010	1	VJ
02NE88SB013	8/18/2002	CS	so	SIM	Pyrene	17	MG/KG	0.21	0.01	5	
02NE88SB013	8/18/2002	CS	SO	SW6020	Chromium		MG/KG	0.05	0.03	5	
02NE88SB013	8/18/2002	CS	SO	SW6020	Lead	17.6		0.05	0.03	5	
02NE88SB013	8/18/2002	CS	so	SW6020	Zinc	42.4	MG/KG			1	
02NE88SB013	8/18/2002	CS	so	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.043	1	
02NE88SB013	8/18/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.21	0.0074	1	
02NE88SB013	8/18/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.017		
02NE88SB013	8/18/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0065	1 1	
02NE88SB013	8/18/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0045	1	
02NE88SB013	8/18/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0087	1	
02NE88SB013	8/18/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0049	1	
02NE88SB013	8/18/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.012	0.012		
02NE88SB013	8/18/2002	CS	SO	SW8260B	Ethylbenzene	1	MG/KG	0.027	0.011	1	
02NE88SB013	8/18/2002	CS	SO	SW8260B	o-Xylene	0.13	MG/KG	0.027	0.0083	1	
02NE88SB013	8/18/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.027	0.011	1	
02NE88SB013	8/18/2002	CS	SO	SW8260B	Xylene, Isomers m & p	1.5	MG/KG	0.027	0.02	1	\(\alpha\)
02NE88SB014	8/18/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	130	MG/KG	2.4	2.1	1	VHB
02NE88SB014	8/18/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	9200	MG/KG	110	48	10	
02NE88SB014	8/18/2002	CS	SO	AK103	Residual Range Organics	54	MG/KG	110	4.4	1	VJ
02NE88SB014	8/18/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.14	PERCENT	0.05	0.02	1	
02NE88SB014	8/18/2002	CS	SO	E160.3M	Total Solids	96	PERCENT			1	
02NE88SB014	8/18/2002	CS	SO	SIM	Acenaphthene	.18	MG/KG	.0053	.00022	11	
02NE88SB014	8/18/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0053	.00017	1	
02NE88SB014	8/18/2002	CS	SO	SIM	Anthracene	.0094	MG/KG	.0053	.0002	1	
02NE88SB014	8/18/2002	CS	SO	SIM	Benzo(a)anthracene	.00076	MG/KG	.0053	.00014	1	VJ
02NE88SB014	8/18/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0053	.00015	1	
02NE88SB014	8/18/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00094	MG/KG	.0053	.00015	1	VJ

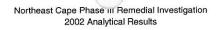
sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB014	8/18/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00015	MG/KG	.0053	.00011	1	VJ
02NE88SB014	8/18/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0053	.00016	1	
02NE88SB014	8/18/2002	CS	SO	SIM	Chrysene	.0015	MG/KG	.0053	.00016	1	VJ
02NE88SB014	8/18/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0053	.00019	1	
02NE88SB014	8/18/2002	CS	SO	SIM	Fluoranthene	.0019	MG/KG	.0053	.00018	1	VJ
02NE88SB014	8/18/2002	CS	SO	SIM	Fluorene	.51	MG/KG	.0053	.00018	1	
02NE88SB014	8/18/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0053	.00016	1	
02NE88SB014	8/18/2002	CS	SO	SIM	Naphthalene	8.4	MG/KG	.27	.011	50	
02NE88SB014	8/18/2002	CS	SO	SIM	Phenanthrene	.25	MG/KG	.0053	.00016	1	
02NE88SB014	8/18/2002	CS	so	SIM	Pyrene	.0043	MG/KG	.0053	.00012	1	VJ
02NE88SB014	8/18/2002	CS	so	SW6020	Chromium	11.6	MG/KG	0.21	0.01	5	
02NE88SB014	8/18/2002	CS	SO	SW6020	Lead	19.3	MG/KG	0.05	0.03	5	
02NE88SB014	8/18/2002	CS	so	SW6020	Zinc	37.9	MG/KG	0.52	0.06	5	
02NE88SB014	8/18/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.042	1	
02NE88SB014	8/18/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.21	0.0073	1	
02NE88SB014	8/18/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.017	1	
02NE88SB014	8/18/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0064	1	
02NE88SB014	8/18/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0044	1	
02NE88SB014	8/18/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0086	1	
02NE88SB014	8/18/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0048	1	
02NE88SB014	8/18/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.011	0.011	1	
		CS	SO	SW8260B	Ethylbenzene	1.2	MG/KG	0.026	0.011	1	
02NE88SB014	8/18/2002	CS	SO	SW8260B	o-Xylene	0.38	MG/KG	0.026	0.0082	1	
02NE88SB014	8/18/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.026	0.011	1	
02NE88SB014	8/18/2002		SO	SW8260B SW8260B	Xylene, Isomers m & p	2.2	MG/KG	0.026	0.02	i	
02NE88SB014	8/18/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	68	MG/KG	4.5	2.2	i	VHB
02NE88SB015	8/18/2002	CS	SO	AK101 AK102	Diesel Range Organics (C10-C25)	5200	MG/KG	110	50	10	
02NE88SB015	8/18/2002	CS	SO	AK102 AK103	Residual Range Organics	11	MG/KG	110	4.7	1	VJ
02NE88SB015	8/18/2002	CS			Total Solids	91.6	PERCENT	110	1.7	l i	
02NE88SB015	8/18/2002	CS	SO SO	E160.3M SIM	Acenaphthene	.21	MG/KG	.0055	.00023	i	
02NE88SB015	8/18/2002	CS		SIM		ND	MG/KG	.0055	.00018	1	
02NE88SB015	8/18/2002	CS	SO		Acenaphthylene Anthracene	.0086	MG/KG	.0055	.00021	1	
02NE88SB015	8/18/2002	CS	SO	SIM		.00038	MG/KG	.0055	.00015	i	VJ
02NE88SB015	8/18/2002	CS	SO	SIM	Benzo(a)anthracene	.00036 ND	MG/KG	.0055	.00016	i	
02NE88SB015	8/18/2002	CS	SO	SIM	Benzo(a)pyrene	.00034	MG/KG	.0055	.00016	1	VJ
02NE88SB015	8/18/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00034	MG/KG	.0055	.00010	1	VJ
02NE88SB015	8/18/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00025	MG/KG	.0055	.00017	1	VJ
02NE88SB015	8/18/2002	CS	SO	SIM	Benzo(k)fluoranthene	.00017	MG/KG	.0055	.00017	1	VJ
02NE88SB015	8/18/2002	CS	SO	SIM	Chrysene		MG/KG	.0055	.0002	1	
02NE88SB015	8/18/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	.0012	MG/KG	.0055	.00019	1	VJ
02NE88SB015	8/18/2002	CS	SO	SIM	Fluoranthene		MG/KG	.0055	.00019	1	
02NE88SB015	8/18/2002	CS	SO	SIM	Fluorene	.69			.00019	1	VJ
02NE88SB015	8/18/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	.0002	MG/KG	.0055 .28	.012	50	¥0
02NE88SB015	8/18/2002	CS	SO	SIM	Naphthalene	3.3	MG/KG		.0012	1	
02NE88SB015	8/18/2002	CS	SO	SIM	Phenanthrene	.24	MG/KG	.0055	.00017	1	VJ
02NE88SB015	8/18/2002	CS	SO	SIM	Pyrene	.0023	MG/KG	.0055	0.05	25	VU
02NE88SB015	8/18/2002	CS	SO	SW6020	Chromium	9.63	MG/KG	1.09		25	
02NE88SB015	8/18/2002	CS	SO	SW6020	Lead	13.4	MG/KG	0.27	0.16	25	
02NE88SB015	8/18/2002	CS	SO	SW6020	Zinc	40.7	MG/KG	2.73	0.33 0.044	1	
02NE88SB015	8/18/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11		1	
02NE88SB015	8/18/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0077	1	
02NE88SB015	8/18/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND ND	MG/KG MG/KG	0.11 0.11	0.018 0.0067	1	
OZIALOGODOTO		CS	SO	SW8082	PCB-1242 (Aroclor 1242)						

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB015	8/18/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88SB015	8/18/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.009	1	
02NE88SB015	8/18/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	0.0065	MG/KG	0.11	0.0051	1	VJ
02NE88SB015	8/18/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.018	0.012	1	
02NE88SB015	8/18/2002	CS	SO	SW8260B	Ethylbenzene	0.13	MG/KG	0.044	0.011	1	
02NE88SB015	8/18/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.044	0.0086	1	
02NE88SB015	8/18/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.044	0.011	1	
02NE88SB015	8/18/2002	CS	so	SW8260B	Xylene, Isomers m & p	0.17	MG/KG	0.044	0.021	1	
02NE88SB015	8/18/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.15	PERCENT	0.05	0.02	1	
02NE88SB016	8/18/2002	CS	so	AK101	Gasoline Range Organics (C6-C10)	73	MG/KG	4.7	2.2	1	VHB
02NE88SB016	8/18/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	2300	MG/KG	11	4.9	1	
02NE88SB016	8/18/2002	CS	SO	AK103	Residual Range Organics	7.4	MG/KG	110	4.6	1	VJ
02NE88SB016	8/18/2002	CS	so	E160.3M	Total Solids	92.5	PERCENT			1	
02NE88SB016	8/18/2002	CS	SO	SIM	Acenaphthene	.11	MG/KG	± .0055	.00023	1	
02NE88SB016	8/18/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	1	
02NE88SB016	8/18/2002	CS	so	SIM	Anthracene	.0035	MG/KG	.0055	.00021	1	VJ
02NE88SB016	8/18/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0055	.00015	1	
	8/18/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	
02NE88SB016		CS	SO	SIM	Benzo(b)fluoranthene	.00032	MG/KG	.0055	.00016	1	VJ
02NE88SB016	8/18/2002		SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0055	.00010	i	
02NE88SB016	8/18/2002	CS		SIM		ND	MG/KG	.0055	.00017	1	
02NE88SB016	8/18/2002	CS	SO SO	SIM	Benzo(k)fluoranthene Chrysene	.00042	MG/KG	.0055	.00017	1	VJ
02NE88SB016	8/18/2002	CS				ND	MG/KG	.0055	.00017	1	
02NE88SB016	8/18/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	.00048	MG/KG	.0055	.0002	 i 	VJ
02NE88SB016	8/18/2002	CS	SO	SIM	Fluoranthene		MG/KG	.0055	.00019	1	
02NE88SB016	8/18/2002	CS	SO	SIM	Fluorene	.35 ND	MG/KG	.0055	.00019	1	
02NE88SB016	8/18/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	2.3	MG/KG MG/KG	.28	.012	50	
02NE88SB016	8/18/2002	CS	SO	SIM	Naphthalene	.12	MG/KG	.0055	.00017	1	
02NE88SB016	8/18/2002	CS	SO	SIM	Phenanthrene	.00095	MG/KG	.0055	.00017	i	VJ
02NE88SB016	8/18/2002	CS	SO	SIM	Pyrene		MG/KG	1.08	0.05	25	
02NE88SB016	8/18/2002	CS	SO	SW6020	Chromium	8.34		0.27	0.05	25	
02NE88SB016	8/18/2002	CS	SO	SW6020	Lead	19.2	MG/KG MG/KG	2.7	0.16	25	
02NE88SB016	8/18/2002	CS	SO	SW6020	Zinc	39.4			0.044	1	
02NE88SB016	8/18/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.0076		
02NE88SB016	8/18/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG		0.0076	1	
02NE88SB016	8/18/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.0066	1	
02NE88SB016	8/18/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0066	1	
02NE88SB016	8/18/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11		1	
02NE88SB016	8/18/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0089		
02NE88SB016	8/18/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.005	1 1	
02NE88SB016	8/18/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.018	0.012		
02NE88SB016	8/18/2002	CS	SO	SW8260B	Ethylbenzene	0.21	MG/KG	0.045	0.011	1 1	
02NE88SB016	8/18/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.045	0.0085	1	
02NE88SB016	8/18/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.045	0.011	1 1	
02NE88SB016	8/18/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.18	MG/KG	0.045	0.021	1	
02NE88SB016	8/18/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.16	PERCENT	0.05	0.02	1	
02NE88SB017	8/19/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	3.5	2.1	1	
02NE88SB017	8/19/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	7	MG/KG	11	4.7	1 1	VJ
02NE88SB017	8/19/2002	CS	SO	AK103	Residual Range Organics	8.7	MG/KG	110	4.4	11	VJ
02NE88SB017	8/19/2002	CS	SO	E160.3M	Total Solids	97.2	PERCENT			1 1	
02NE88SB017	8/19/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.0052	.00022	1 1	
02NE88SB017	8/19/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0052	.00017	1 1	
02NE88SB017	8/19/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0052	.0002	1 1	



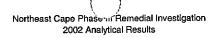
sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB017	8/19/2002	cs	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0052	.00014	1	
02NE88SB017	8/19/2002	CS	so	SIM	Benzo(a)pyrene	ND	MG/KG	.0052	.00015	11	
02NE88SB017	8/19/2002	cs	SO	SIM	Benzo(b)fluoranthene	.00023	MG/KG	.0052	.00015	1	٧J
02NE88SB017	8/19/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00014	MG/KG	.0052	.00011	1	٧J
02NE88SB017	8/19/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0052	.00016	1	
02NE88SB017	8/19/2002	cs	SO	SIM	Chrysene	.00018	MG/KG	.0052	.00016	1	٧J
02NE88SB017	8/19/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0052	.00019	1	
02NE88SB017	8/19/2002	CS	so	SIM	Fluoranthene	ND	MG/KG	.0052	.00018	1	
02NE88SB017	8/19/2002	cs	so	SIM	Fluorene	ND	MG/KG	.0052	.00018	1	
02NE88SB017	8/19/2002	CS CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0052	.00016	1 1	
02NE88SB017	8/19/2002	CS	so	SIM	Naphthalene	.00045	MG/KG	.0052	.00022	1	VJ
02NE88SB017	8/19/2002	CS	so	SIM	Phenanthrene	.0004	MG/KG	.0052	.00016	1	VJ
02NE88SB017	8/19/2002	CS	SO	SIM	Pyrene	ND	MG/KG	.0052	.00012	1	
02NE88SB017	8/19/2002	CS	SO	SW6020	Chromium	7.04	MG/KG	1.03	0.05	25	
02NE88SB017	8/19/2002	ĊŠ	so	\$W6020	Lead	14.4	MG/KG	0.26	0.15	25	
02NE88SB017	8/19/2002	CS	so	\$W6020	Zinc	38.2	MG/KG	2.57	0.31	25	
02NE88SB017	8/19/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.042	1	
02NE88SB017	8/19/2002	CS	so	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.21	0.0073	1	
02NE88SB017	8/19/2002	cs	so	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.017	1	
02NE88SB017	8/19/2002	CS	so	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0063	1	
02NE88SB017	8/19/2002	cs	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0044	1	
02NE88\$B017	8/19/2002	CS	so	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0085	1	
02NE88SB017	8/19/2002	CS CS	so	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0048	1	
02NE88SB017	8/19/2002	cs	so	SW8260B	Benzene	ND	MG/KG	0.015	0.011	1	**
02NE88SB017	8/19/2002	CS CS	so	SW8260B	Ethylbenzene	ND	MG/KG	0.036	0.011	1	
02NE88SB017	8/19/2002	CS	so	SW8260B	o-Xylene	ND	MG/KG	0.036	0.0081	1	
02NE88SB017	8/19/2002	CS	so	SW8260B	Toluene	ND	MG/KG	0.036	0.011	1	
02NE88\$B017	8/19/2002	CS	so	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.036	0.02	1	
	8/19/2002	CS	so	SW9060	Total Organic Carbon (TOC)	0.09	PERCENT	0.05	0.02	1	
02NE88SB017	8/19/2002	CS	so	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	4.8	2.2	1	
02NE88SB018	8/19/2002	CS CS	so	AK101	Diesel Range Organics (C10-C25)	7.6	MG/KG	11	5	1	VJ
02NE88SB018 02NE88SB018	8/19/2002	CS	so	AK102	Residual Range Organics	12	MG/KG	110	4.6	1	VJ
02NE88SB018	8/19/2002	CS	so	E160.3M	Total Solids	91.7	PERCENT	110		1	
02NE88SB018	8/19/2002	CS	so	SIM	Acenaphthene	ND	MG/KG	.0055	.00023	1	
	8/19/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	1	
02NE88SB018		CS	so	SIM	Anthracene	ND	MG/KG	.0055	.00021	1	
02NE88SB018	8/19/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0055	.00015	1	
02NE88SB018	8/19/2002			SIM	Benzo(a)pyrene	ND	MG/KG	.0055	,00016	1	
02NE88SB018	8/19/2002	CS	SO SO	SIM	Benzo(b)fluoranthene	.00034	MG/KG	.0055	.00016	1	VJ
02NE88SB018	8/19/2002	<u>cs</u>		SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0055	.00011	1	-
02NE88SB018	8/19/2002	ĈS	SO	SIM	Benzo(g,n,n)perylene Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	
02NE88SB018	8/19/2002	CS	SO	SIM	Chrysene	.00032	MG/KG	,0055	.00017	1	VJ
02NE88SB018	8/19/2002	CS	SO			ND	MG/KG	.0055	.0002	<u> </u>	
02NE88SB018	8/19/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND ND	MG/KG	.0055	.00019	1	
02NE88SB018	8/19/2002	CS	so	SIM	Fluoranthene	.00022	MG/KG	.0055	.00019	1	VJ
02NE88SB018	8/19/2002	CS	SO	SIM	Fluorene		MG/KG	.0055	.00019	- 	
02NE88SB018	8/19/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND 0010	MG/KG	.0055	.00017	1	٧J
02NE88SB018	8/19/2002	CS	SO	SIM	Naphthalene	.0019	MG/KG MG/KG	.0055	.00023	1	VJ VJ
02NE88SB018	8/19/2002	CS	so	SIM	Phenanthrene		MG/KG MG/KG	.0055	.00017	1	vi
02NE88SB018	8/19/2002	CS	so	SIM	Pyrene	.00014		1.09	0.05	25	
02NE88SB018	8/19/2002	CS	SO	SW6020	Chromium	12.5	MG/KG		0.05	25	
02NE88SB018	8/19/2002	CS	SO	SW6020	Lead	17.8	MG/KG	0.27	0.16	25	
02NE88SB018	8/19/2002	CS	SO	SW6020	Zinc	48.4	MG/KG	2.73	0.33		

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB018	8/19/2002	CS	so	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB018	8/19/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0077	1	
02NE88SB018	8/19/2002	CS	so	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB018	8/19/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
02NE88SB018	8/19/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88SB018	8/19/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.009	1	
02NE88SB018	8/19/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB018	8/19/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.016	0.012	1	
02NE88SB018	8/19/2002	CS	so	SW8260B	Ethylbenzene	ND	MG/KG	0.038	0.011	1	
02NE88SB018	8/19/2002	CS	so	SW8260B	o-Xylene	ND	MG/KG	0.038	0.0086	1	
02NE88SB018	8/19/2002	CS	so	SW8260B	Toluene	ND	MG/KG	0.038	0.011	1	
02NE88SB018	8/19/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.038	0.021	1	
02NE88SB018	8/19/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.11	PERCENT	0.05	0.02	1	
02NE88SB019	8/19/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	31	MG/KG	3.5	2.2	1	
		CS	SO	AK101 AK102	Diesel Range Organics (C10-C25)	1400	MG/KG	11	4.9	1	
02NE88SB019	8/19/2002		SO	AK102 AK103	Residual Range Organics	ND	MG/KG	110	4.6	1	
02NE88SB019	8/19/2002	CS	SO	E160.3M	Total Solids	93.1	PERCENT	110	4.0	1	
02NE88SB019	8/19/2002	CS				.045	MG/KG	.0054	.00023	1	
02NE88SB019	8/19/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.0054	.00023	1	
02NE88SB019	8/19/2002	CS	so	SIM	Acenaphthylene	.0021	MG/KG	.0054	.00018	1	VJ
02NE88SB019	8/19/2002	CS	so	SIM	Anthracene	.0021 ND	MG/KG MG/KG	.0054	.00021	1	٧٥
02NE88SB019	8/19/2002	CS	so	SIM	Benzo(a)anthracene			.0054	.00014	1	
02NE88SB019	8/19/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG		.00016	1	VJ
02NE88SB019	8/19/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00018	MG/KG	.0054		1	VJ
02NE88SB019	8/19/2002	CS	so	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0054	.00011		
02NE88SB019	8/19/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0054	.00017	1 1	VJ
02NE88SB019	8/19/2002	CS	SO	SIM	Chrysene	.00035	MG/KG	.0054	.00017	1	VJ
02NE88SB019	8/19/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0054	.0002		VJ
02NE88SB019	8/19/2002	CS	SO	SIM	Fluoranthene	.00019	MG/KG	.0054	.00019	1	VJ
02NE88SB019	8/19/2002	CS	SO	SIM	Fluorene	.16	MG/KG	.0054	.00019	1	
02NE88SB019	8/19/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0054	.00017	1	
02NE88SB019	8/19/2002	CS	SO	SIM	Naphthalene	.48	MG/KG	.0054	.00023	1	
02NE88SB019	8/19/2002	CS	so	SIM	Phenanthrene	.05	MG/KG	.0054	.00017	1	
02NE88SB019	8/19/2002	CS	so	SIM	Pyrene	.00062	MG/KG	.0054	.00012	1	VJ
02NE88SB019	8/19/2002	CS	so	SW6020	Chromium	10	MG/KG	1.07	0.05	25	
02NE88SB019	8/19/2002	CS	so	SW6020	Lead	43.7	MG/KG	0.27	0.16	25	
02NE88SB019	8/19/2002	CS	SO	SW6020	Zinc	92.4	MG/KG	2.69	0.32	25	
02NE88SB019	8/19/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.043	1	
02NE88SB019	8/19/2002	CS	so	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0076	1	
02NE88SB019	8/19/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB019	8/19/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0066	1	
02NE88SB019	8/19/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88SB019	8/19/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0089	1	
02NE88SB019	8/19/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.005	1	
02NE88SB019	8/19/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.015	0.012	1	
02NE88SB019	8/19/2002	CS	so	SW8260B	Ethylbenzene	0.018	MG/KG	0.038	0.011	1	VJ
02NE88SB019	8/19/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.038	0.0085	1	
02NE88SB019	8/19/2002	CS	so	SW8260B	Toluene	ND	MG/KG	0.038	0.011	1	
02NE88SB019	8/19/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.038	0.02	1	
	8/19/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.1	PERCENT	0.05	0.02	1	
02NE88SB019		CS	so	AK101	Gasoline Range Organics (C6-C10)	19	MG/KG	4.4	2.2	1	
02NE88SB020	8/19/2002	CS	SO	AK101 AK102	Diesel Range Organics (C10-C25)	750	MG/KG	11	4.9	1	
02NE88SB020	8/19/2002	CS	SO	AK102 AK103	Residual Range Organics	ND	MG/KG	110	4.6	1	



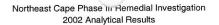
sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB020	8/19/2002	CS	SO	E160.3M	Total Solids	92.8	PERCENT			1	
02NE88SB020	8/19/2002	CS	SO	SIM	Acenaphthene	.03	MG/KG	.0054	.00023	1	
02NE88SB020	8/19/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0054	.00018	1	
02NE88SB020	8/19/2002	CS	SO	SIM	Anthracene	.0019	MG/KG	.0054	.00021	1	VJ
02NE88SB020	8/19/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0054	.00015	1	
02NE88SB020	8/19/2002	CS	so	SIM	Benzo(a)pyrene	ND	MG/KG	.0054	.00016	1	
02NE88SB020	8/19/2002	CS	so	SIM	Benzo(b)fluoranthene	.0003	MG/KG	.0054	.00016	1	VJ
02NE88SB020	8/19/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0054	.00011	1	
02NE88SB020	8/19/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0054	.00017	1	
02NE88SB020	8/19/2002	CS	SO	SIM	Chrysene	.00023	MG/KG	.0054	.00017	1	VJ
02NE88SB020	8/19/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0054	.0002	1	
02NE88SB020	8/19/2002	CS	SO	SIM	Fluoranthene	.00028	MG/KG	.0054	.00019	1	VJ
02NE88SB020	8/19/2002	CS	SO	SIM	Fluorene	.12	MG/KG	.0054	.00019	1	
02NE88SB020	8/19/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0054	.00013	1	
		CS	so	SIM	Naphthalene	.11	MG/KG	.0054	.00017	1	
02NE88SB020	8/19/2002	CS	SO	SIM	Phenanthrene	.1	MG/KG	.0054	.00023	1	
02NE88SB020	8/19/2002		SO	SIM		.0005	MG/KG	.0054	.00017	1	VJ
02NE88SB020	8/19/2002	CS			Pyrene				0.05	25	٧٥
02NE88SB020	8/19/2002	CS	SO	SW6020	Chromium	4.8	MG/KG	1.08	0.05	25	
02NE88SB020	8/19/2002	CS	SO	SW6020	Lead	60.5	MG/KG	0.27			
02NE88SB020	8/19/2002	CS	SO	SW6020	Zinc	87.4	MG/KG	2.69	0.32	25	
02NE88SB020	8/19/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB020	8/19/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0076	1	
02NE88SB020	8/19/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB020	8/19/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0066	1	
02NE88SB020	8/19/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88SB020	8/19/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0089	1	
02NE88SB020	8/19/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.005	1	
02NE88SB020	8/19/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.015	0.012	1	
02NE88SB020	8/19/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.038	0.011	1	
02NE88SB020	8/19/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.038	0.0085	1	
02NE88SB020	8/19/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.038	0.011	1	
02NE88SB020	8/19/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.038	0.021	1	
02NE88SB020	8/19/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.07	PERCENT	0.05	0.02	1	
02NE88SB021	8/17/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	70	MG/KG	9	4	1	
02NE88SB021	8/17/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	13000	MG/KG	390	180	10	
02NE88SB021	8/17/2002	CS	SO	AK103	Residual Range Organics	5100	MG/KG	3900	170	10	
02NE88SB021	8/17/2002	CS	SO	D4129	Total Organic Carbon (TOC)	16.3	PERCENT	0.05	0.02	1	
02NE88SB021	8/17/2002	CS	so	E160.3M	Total Solids	50.8	PERCENT			1	
02NE88SB021	8/17/2002	CS	SO	SIM	Acenaphthene	.18	MG/KG	.05	.0021	1	
02NE88SB021	8/17/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.05	.0016	1	
02NE88SB021	8/17/2002	CS	SO	SIM	Anthracene	.012	MG/KG	.05	.0019	1	VJ
02NE88SB021	8/17/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.05	.0013	1	
02NE88SB021	8/17/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.05	.0014	1	
02NE88SB021	8/17/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0052	MG/KG	.05	.0014	1	VJ
02NE88SB021	8/17/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.05	.00099	1	
02NE88SB021	8/17/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.05	.0015	1	
02NE88SB021	8/17/2002	CS	SO	SIM	Chrysene	ND	MG/KG	.05	.0015	1	
02NE88SB021	8/17/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.05	.0018	i	
02NE88SB021	8/17/2002	CS	SO	SIM	Fluoranthene	.0029	MG/KG	.05	.0017	1	VJ
			SO	SIM	Fluoranthene	.33	MG/KG	.05	.0017	1	
02NE88SB021	8/17/2002	CS				ND	MG/KG	.05	.0017	1	
02NE88SB021	8/17/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene			.05	.021	10	
02NE88SB021	8/17/2002	CS	SO	SIM	Naphthalene	12	MG/KG	.5	.021	10	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB021	8/17/2002	CS	so	SIM	Phenanthrene	.21	MG/KG	.05	.0015	1	
02NE88SB021	8/17/2002	CS	so	SIM	Pyrene	.0059	MG/KG	.05	.0011	1	VJ
02NE88SB021	8/17/2002	CS	SO	SW6020	Chromium	16.5	MG/KG	0.39	0.02	5	
02NE88SB021	8/17/2002	CS	SO	SW6020	Lead	13.4	MG/KG	0.1	0.06	5	
02NE88SB021	8/17/2002	CS	SO	SW6020	Zinc	44.3	MG/KG	0.98	0.12	5	
02NE88SB021	8/17/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.2	0.079	1	
02NE88SB021	8/17/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.39	0.014	1	
02NE88SB021	8/17/2002	CS	so	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.2	0.032	1	
02NE88SB021	8/17/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.2	0.013	1	
02NE88SB021	8/17/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.2	0.0083	1	
02NE88SB021	8/17/2002	CS	so	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.2	0.017	1	
02NE88SB021	8/17/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.2	0.0091	1	
	8/17/2002	CS	so	SW8260B	Benzene	0.12	MG/KG	0.031	0.021	1	
02NE88SB021	8/17/2002	CS	SO	SW8260B	Ethylbenzene	1.3	MG/KG	0.078	0.02	1	
02NE88SB021		CS	so	SW8260B	o-Xylene	2.7	MG/KG	0.078	0.016	1	
02NE88SB021	8/17/2002	CS	so	SW8260B	Toluene	3.2	MG/KG	0.078	0.02	1	
02NE88SB021	8/17/2002		SO	SW8260B	Xylene, Isomers m & p	5.1	MG/KG	0.078	0.037	1	
02NE88SB021	8/17/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	99	MG/KG	8.1	4.4	1	
02NE88SB022	8/17/2002	CS	SO	AK101 AK102	Diesel Range Organics (C10-C25)	51000	MG/KG	260	120	10	
02NE88SB022	8/17/2002	CS	SO	AK102 AK103	Residual Range Organics	6000	MG/KG	2600	110	10	
02NE88SB022	8/17/2002	CS	SO	D4129	Total Organic Carbon (TOC)	14.9	PERCENT	0.05	0.02	1	
02NE88SB022	8/17/2002	CS		E160.3M	Total Solids	46.3	PERCENT	0.00	0.02	1	
02NE88SB022	8/17/2002	CS	SO	SIM	Acenaphthene	2.6	MG/KG	.14	.0057	1	VHB
02NE88SB022	8/17/2002	CS	SO			ND	MG/KG	.14	.0044	1	
02NE88SB022	8/17/2002	CS	SO	SIM	Acenaphthylene	.3	MG/KG	.14	.0052	1	VHB
02NE88SB022	8/17/2002	CS	SO	SIM	Anthracene	.006	MG/KG	.14	.0032	i	VJ
02NE88SB022	8/17/2002	CS	SO	SIM	Benzo(a)anthracene	100000000000000000000000000000000000000	MG/KG	.14	.0038	1	
02NE88SB022	8/17/2002	CS	SO	SIM	Benzo(a)pyrene	ND		.14	.0038	1	VJ
02NE88SB022	8/17/2002	CS	SO	SIM	Benzo(b)fluoranthene	.016	MG/KG		.0038	1	- 40
02NE88SB022	8/17/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.14	.0027	1	
02NE88SB022	8/17/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.14	.0041	1	
02NE88SB022	8/17/2002	CS	SO	SIM	Chrysene	ND	MG/KG	.14	.0049	1	
02NE88SB022	8/17/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.14	.0049	1	VJ
02NE88SB022	8/17/2002	CS	SO	SIM	Fluoranthene	.048	MG/KG		.0046	1	VHB
02NE88SB022	8/17/2002	CS	SO	SIM	Fluorene	6.9	MG/KG	.14	.0046	1	VIID
02NE88SB022	8/17/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.14	.12	20	
02NE88SB022	8/17/2002	CS	SO	SIM	Naphthalene	81	MG/KG	2.7	.0041	1	VHB
02NE88SB022	8/17/2002	CS	SO	SIM	Phenanthrene	5.5	MG/KG	.14	.003	1	VJ
02NE88SB022	8/17/2002	CS	SO	SIM	Pyrene	.12	MG/KG	.14		5	V0
02NE88SB022	8/17/2002	CS	SO	SW6020	Chromium	23.7	MG/KG	0.43	0.02	5	
02NE88SB022	8/17/2002	CS	SO	SW6020	Lead	61.9	MG/KG	0.11		5	
02NE88SB022	8/17/2002	CS	SO	SW6020	Zinc	110	MG/KG	1.08	0.13 0.087	1	
02NE88SB022	8/17/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.22			
02NE88SB022	8/17/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.43	0.016	1	
02NE88SB022	8/17/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.22	0.035	1 1	
02NE88SB022	8/17/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.22	0.014		
02NE88SB022	8/17/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.22	0.0091	1	
02NE88SB022	8/17/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.22	0.018	1	
02NE88SB022	8/17/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.22	0.01	1	
02NE88SB022	8/17/2002	CS	SO	SW8260B	Benzene	0.19	MG/KG	0.039	0.023	1	
02NE88SB022	8/17/2002	CS	SO	SW8260B	Ethylbenzene	2.8	MG/KG	0.097	0.022	1	
02NE88SB022	8/17/2002	CS	SO	SW8260B	o-Xylene	6.2	MG/KG	0.097	0.017	1	
02NE88SB022	8/17/2002	CS	SO	SW8260B	Toluene	4.5	MG/KG	0.097	0.022	1	



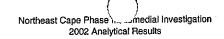
sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag_
02NE88SB022	8/17/2002	CS	SO	SW8260B	Xylene, Isomers m & p	12	MG/KG	0.097	0.041	1	
02NE88SB023	8/20/2002	CS	so	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	5.2	2.7	1	
02NE88SB023	8/20/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	190	MG/KG	14	5.9	1	
02NE88SB023	8/20/2002	CS	SO	AK103	Residual Range Organics	1500	MG/KG	140	5.6	1	
02NE88SB023	8/20/2002	CS	SO	E160.3M	Total Solids	76.6	PERCENT			11	
02NE88SB023	8/20/2002	CS	SO	SIM	Acenaphthene	.00028	MG/KG	.0066	.00028	1	VJ
02NE88SB023	8/20/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0066	.00021	1	
02NE88SB023	8/20/2002	CS	SO	SIM	Anthracene	.00081	MG/KG	.0066	.00025	1	VJ
02NE88SB023	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	.00027	MG/KG	.0066	.00017	1	VJ
02NE88SB023	8/20/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0066	.00019	1	
02NE88SB023	8/20/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00048	MG/KG	.0066	.00019	1	٧J
02NE88\$B023	8/20/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.0002	MG/KG	.0066	.00014	1	VJ
02NE88SB023	8/20/2002	cs	so	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0066	.0002	1	
02NE88SB023	8/20/2002	ČŠ .	SO	SIM	Chrysene	.00067	MG/KG	.0066	.0002	1	VJ ·
02NE88SB023	8/20/2002	cs -	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0066	.00024	1	
02NE88SB023	8/20/2002	cs	SO	SIM	Fluoranthene	.00088	MG/KG	.0066	.00023	1	VJ
02NE88\$B023	8/20/2002	CS CS	SO	SIM	Fluorene	.00068	MG/KG	.0066	.00023	1	VJ
02NE88SB023	8/20/2002	cs	so	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0066	.0002	1	
02NE88\$B023	8/20/2002	CS	SO	SIM	Naphthalene	.0045	MG/KG	.0066	.00028	1	VJ
02NE88SB023	8/20/2002	CS CS	SO	SIM	Phenanthrene	.0022	MG/KG	.0066	.0002	1	VJ
02NE88SB023	8/20/2002	CS .	so	SIM	Pyrene	.0008	MG/KG	.0066	.00015	1	VJ
02NE88SB023	8/20/2002	cs cs	so	SW6020	Chromium	12.4	MG/KG	1,09	0.05	25	
02NE88SB023	8/20/2002	CS	SO	SW6020	Lead	8.45	MG/KG	0.27	0.16	25	
02NE88SB023	8/20/2002	CS	so	SW6020	Zinc	30	MG/KG	2.72	0.33	25	
02NE88SB023	8/20/2002	CS	so	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.14	0.053	1	
02NE88SB023	8/20/2002	CS	so	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.27	0.0092	1	
02NE88SB023	8/20/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.14	0.021	1	
02NE88SB023	8/20/2002	CS	so	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.14	0.008	1	
		CS	so	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.14	0.0055	1	
02NE88SB023	8/20/2002	CS CS	SO	SW8082	PCB-1246 (Aroclor 1244)	ND	MG/KG	0.14	0.011	1	
02NE88SB023	8/20/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.14	0.0061	1	
02NE88SB023	8/20/2002		SO	SW8260B	Benzene	ND	MG/KG	0.022	0.014	1	
02NE88SB023	8/20/2002	CS CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.054	0.013	1	
02NE88SB023	8/20/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.054	0.011	1	
02NE88\$B023	8/20/2002		SO	SW8260B	Toluene	ND	MG/KG	0.054	0.013	1	
02NE88SB023	8/20/2002	CS	SO		Xylene, Isomers m & p	ND	MG/KG	0.054	0.025	1	
02NE88SB023	8/20/2002	CS		SW8260B	Total Organic Carbon (TOC)	8.09	PERCENT	0.05	0.023	1	
02NE88SB023	8/20/2002	CS	SO	SW9060		ND	MG/KG	3.8	2.2	1	-
02NE88SB024	8/20/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	20	MG/KG	11	4.9	1	
02NE88\$B024	8/20/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	33	MG/KG	110	4.6	1	VJ
02NE88SB024	8/20/2002	CS	so	AK103	Residual Range Organics		PERCENT	110	7.0	1	,,,
02NE88SB024	8/20/2002	CS	SO	E160.3M	Total Solids	92.3		.0055	.00023	1	
02NE88SB024	8/20/2002	CS	so	SIM	Acenaphthene	ND	MG/KG	.0055	.00023	1	
02NE88SB024	8/20/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG		.00018	1	
02NE88SB024	8/20/2002	cs	SO	SIM	Anthracene	ND	MG/KG	.0055	.00021	1	
02NE88SB024	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	ND_	MG/KG	.0055	.00015	1	
02NE88SB024	8/20/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	VJ
02NE88SB024	8/20/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00027	MG/KG	.0055	.00016	1	VÜ
02NE88\$B024	8/20/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0055	.00017	1	
02NE88SB024	8/20/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	
02NE88SB024	8/20/2002	CS	SO	SIM	Chrysene	ND	MG/KG	.0055		1	
02NE88SB024	8/20/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	1	VJ
02NE88SB024	8/20/2002	CS	SO	SIM	Fluoranthene	.00019	MG/KG	.0055	.00019		νJ

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB024	8/20/2002	CS	so	SIM	Fluorene	.00051	MG/KG	.0055	.00019	1	VJ
02NE88SB024	8/20/2002	CS	so	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0055	.00017	1	
02NE88SB024	8/20/2002	CS	so	SIM	Naphthalene	.0011	MG/KG	.0055	.00023	1	VJ
02NE88SB024	8/20/2002	CS	so	SIM	Phenanthrene	.00084	MG/KG	.0055	.00017	1	VJ
02NE88SB024	8/20/2002	CS	SO	SIM	Pyrene	.00017	MG/KG	.0055	.00012	1	VJ
02NE88SB024	8/20/2002	CS	so	SW6020	Chromium	9.62	MG/KG	1.08	0.05	25	
02NE88SB024	8/20/2002	CS	so	SW6020	Lead	17.3	MG/KG	0.27	0.16	25	
02NE88SB024	8/20/2002	CS	SO	SW6020	Zinc	44.5	MG/KG	2.71	0.33	25	
02NE88SB024	8/20/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB024	8/20/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0076	1	
02NE88SB024	8/20/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB024	8/20/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
	8/20/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88SB024		CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0089	1	
02NE88SB024	8/20/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.005	1	
02NE88SB024	8/20/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.017	0.012	1	
02NE88SB024	8/20/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.043	0.011	1	
02NE88SB024	8/20/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.043	0.0086	1	
02NE88SB024	8/20/2002		SO	SW8260B SW8260B	Toluene	ND	MG/KG	0.043	0.011	1	
02NE88SB024	8/20/2002	CS				ND	MG/KG	0.043	0.021	1	
02NE88SB024	8/20/2002	CS	SO	SW8260B	Xylene, Isomers m & p Total Organic Carbon (TOC)	0.15	PERCENT	0.05	0.02	1	
02NE88SB024	8/20/2002	CS	SO	SW9060	9	11	MG/KG	19	7.4	1	VJ
02NE88SB025	8/20/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	430	MG/KG	40	18	1	
02NE88SB025	8/20/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)		MG/KG	400	17	<u> </u>	
02NE88SB025	8/20/2002	CS	SO	AK103	Residual Range Organics	4600	PERCENT	400	17	1	
02NE88SB025	8/20/2002	CS	SO	E160.3M	Total Solids	48.5	MG/KG	.021	.00087	2	VJ
02NE88SB025	8/20/2002	CS	SO	SIM	Acenaphthene	.0026	MG/KG MG/KG	.021	.00067	2	VJ
02NE88SB025	8/20/2002	CS	SO	SIM	Acenaphthylene	.0011	MG/KG	.021	.00079	2	- 10
02NE88SB025	8/20/2002	CS	SO	SIM	Anthracene	ND			.00079	2	
02NE88SB025	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.021	.00058	2	
02NE88SB025	8/20/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.021	.00058	2	VJ
02NE88SB025	8/20/2002	CS	SO	SIM	Benzo(b)fluoranthene	.021	MG/KG	.021	.00036	2	VJ
02NE88SB025	8/20/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.0088	MG/KG	.021	.00042	2	V0
02NE88SB025	8/20/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.021	.00062	2	
02NE88SB025	8/20/2002	CS	SO	SIM	Chrysene	ND	MG/KG	.021	.00062	2	
02NE88SB025	8/20/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.021		2	VJ
02NE88SB025	8/20/2002	CS	SO	SIM	Fluoranthene	.0025	MG/KG	.021	.00071	2	VJ
02NE88SB025	8/20/2002	CS	SO	SIM	Fluorene	.006	MG/KG	.021	.00071		V3
02NE88SB025	8/20/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.021	.00062	2	
02NE88SB025	8/20/2002	CS	SO	SIM	Naphthalene	.042	MG/KG	.021	.00087	2	V/1
02NE88SB025	8/20/2002	CS	SO	SIM	Phenanthrene	.0083	MG/KG	.021	.00062	2	
02NE88SB025	8/20/2002	CS	SO	SIM	Pyrene	.0026	MG/KG	.021	.00046		VJ
02NE88SB025	8/20/2002	CS	SO	SW6020	Chromium	16.5	MG/KG	0.83	0.04	25	
02NE88SB025	8/20/2002	CS	SO	SW6020	Lead	9.91	MG/KG	0.21	0.12	25	
02NE88SB025	8/20/2002	CS	SO	SW6020	Zinc	42	MG/KG	2.06	0.25	25	
02NE88SB025	8/20/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.21	0.083	1	
02NE88SB025	8/20/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.42	0.015	1	
02NE88SB025	8/20/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.21	0.033	1	
02NE88SB025	8/20/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.21	0.013	1	
02NE88SB025	8/20/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.21	0.0087	1	
02NE88SB025	8/20/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.21	0.017	1	
02NE88SB025	8/20/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.21	0.0095	1	
02NE88SB025	8/20/2002	CS	SO	SW8260B	Benzene	0.37	MG/KG	0.069	0.036	1	



sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB025	8/20/2002	CS	SO	SW8260B	Ethylbenzene	0.034	MG/KG	0.18	0.034	1	VJ
02NE88SB025	8/20/2002	CS	SO	SW8260B	o-Xylene	0.071	MG/KG	0.18	0.027	1	VJ
02NE88SB025	8/20/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.18	0.034	1	
02NE88SB025	8/20/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.19	MG/KG	0.18	0.064	1	
02NE88SB025	8/20/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	16.5	PERCENT	0.05	0.02	1	
02NE88SB026	8/20/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	6.1	3.1	1	
02NE88SB026	8/20/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	77	MG/KG	28	13	1	
02NE88SB026	8/20/2002	CS	SO	AK103	Residual Range Organics	420	MG/KG	280	12	1	
02NE88SB026	8/20/2002	CS	SO	E160.3M	Total Solids	66.3	PERCENT			1	V-1000 (11 11 11 11 11 11 11 11 11 11 11 11 11
02NE88SB026	8/20/2002	CS	SO	SIM	Acenaphthene	.00037	MG/KG	.0076	.00032	1	VJ
02NE88SB026	8/20/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0076	.00025	1	
02NE88SB026	8/20/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0076	.00029	1	
02NE88SB026	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0076	.0002	1	
02NE88SB026	8/20/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0076	.00022	1	
02NE88SB026	8/20/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00057	MG/KG	.0076	.00022	1	٧J
02NE88SB026	8/20/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00021	MG/KG	.0076	.00016	1	VJ
02NE88SB026	8/20/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0076	.00023	1	
02NE88SB026	8/20/2002	CS	SO	SIM	Chrysene	.0029	MG/KG	.0076	.00023	1	VJ
02NE88SB026	8/20/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0076	.00028	1	
02NE88SB026	8/20/2002	CS	SO	SIM	Fluoranthene	.0004	MG/KG	.0076	.00026	1	VJ
02NE88SB026	8/20/2002	CS	SO	SIM	Fluorene	.00061	MG/KG	.0076	.00026	1	VJ
02NE88SB026	8/20/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0076	.00023	1	
02NE88SB026	8/20/2002	CS	SO	SIM	Naphthalene	.0018	MG/KG	.0076	.00032	1	VJ
02NE88SB026	8/20/2002	CS	SO	SIM	Phenanthrene	.0027	MG/KG	.0076	.00023	1	VJ
02NE88SB026		CS	SO	SIM	Pyrene	.0004	MG/KG	.0076	.00017	1	VJ
	8/20/2002	CS	SO	SW6020	Chromium	14.3	MG/KG	0.75	0.04	25	
02NE88SB026	8/20/2002			SW6020	Lead	21.4	MG/KG	0.19	0.11	25	
02NE88SB026	8/20/2002	CS	SO		Zinc	77.5	MG/KG	1.89	0.23	25	
02NE88SB026	8/20/2002	CS	SO	SW6020 SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.15	0.061	1	
02NE88SB026	8/20/2002	CS	SO	SW8082 SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.3	0.011	1	
02NE88SB026	8/20/2002	CS	SO		PCB-1221 (Aroclor 1221) PCB-1232 (Aroclor 1232)	ND	MG/KG	0.15	0.025	1	
02NE88SB026	8/20/2002	CS	SO SO	SW8082 SW8082	PCB-1232 (Aroclor 1232) PCB-1242 (Aroclor 1242)	ND	MG/KG	0.15	0.0093	1	
02NE88SB026	8/20/2002	CS		SW8082 SW8082	PCB-1242 (Aroclor 1242) PCB-1248 (Aroclor 1248)	ND	MG/KG	0.15	0.0064	1	
02NE88SB026	8/20/2002	CS	SO SO	SW8082 SW8082	PCB-1246 (Aroclor 1246)	ND	MG/KG	0.15	0.013	1	
02NE88SB026	8/20/2002	CS			PCB-1254 (Aroclor 1254) PCB-1260 (Aroclor 1260)	ND	MG/KG	0.15	0.007	1	
02NE88SB026	8/20/2002	CS	SO	SW8082		ND	MG/KG	0.022	0.016	1	
02NE88SB026	8/20/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.054	0.015	1	
02NE88SB026	8/20/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.054	0.013	1	
02NE88SB026	8/20/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.054	0.012	1	
02NE88SB026	8/20/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.054	0.029	1	
02NE88SB026	8/20/2002	CS	SO	SW8260B	Xylene, Isomers m & p		PERCENT	0.054	0.029	1	
02NE88SB026	8/20/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	1.62		5.4	2.5	1	VHB
02NE88SB027	8/20/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	220	MG/KG MG/KG	250	110	20	VIID
02NE88SB027	8/20/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	47000			5.2	1	
02NE88SB027	8/20/2002	CS	SO	AK103	Residual Range Organics	3000	MG/KG	130	5.2	1	
02NE88SB027	8/20/2002	CS	SO	E160.3M	Total Solids	82.3	PERCENT	004	0012	5	
02NE88SB027	8/20/2002	CS	SO	SIM	Acenaphthene	1.3	MG/KG	.031	.0013		
02NE88SB027	8/20/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.031	.00098	5	
02NE88SB027	8/20/2002	CS	SO	SIM	Anthracene	.12	MG/KG	.031	.0012		VJ
02NE88SB027	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	.012	MG/KG	.031	.00079	5	VJ
02NE88SB027	8/20/2002	CS	SO	SIM	Benzo(a)pyrene	.0032	MG/KG	.031	.00086	5	
02NE88SB027	8/20/2002	CS	SO	SIM	Benzo(b)fluoranthene	.007	MG/KG	.031	.00086	5	VJ
02NE88SB027	8/20/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.0016	MG/KG	.031	.00061	5	VJ

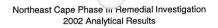
sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB027	8/20/2002	CS	so	SIM	Benzo(k)fluoranthene	.0033	MG/KG	.031	.00092	5	VJ
02NE88SB027	8/20/2002	CS	SO	SIM	Chrysene	.024	MG/KG	.031	.00092	5	VJ
02NE88SB027	8/20/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.031	.0011	5	
02NE88SB027	8/20/2002	CS	so	SIM	Fluoranthene	.033	MG/KG	.031	.0011	5	
02NE88SB027	8/20/2002	CS	so	SIM	Fluorene	3.9	MG/KG	.031	.0011	5	
02NE88SB027	8/20/2002	CS	so	SIM	Indeno(1,2,3-cd)pyrene	.0018	MG/KG	.031	.00092	5	VJ
02NE88SB027	8/20/2002	CS	SO	SIM	Naphthalene	79	MG/KG	3.1	.13	500	
02NE88SB027	8/20/2002	CS	SO	SIM	Phenanthrene	2.7	MG/KG	.031	.00092	5	
02NE88SB027	8/20/2002	CS	SO	SIM	Pyrene	.06	MG/KG	.031	.00067	5	
02NE88SB027	8/20/2002	CS	SO	SW6020	Chromium	22.7	MG/KG	1.22	0.06	25	
02NE88SB027	8/20/2002	CS	SO	SW6020	Lead	21.8	MG/KG	0.3	0.18	25	
		CS	SO	SW6020	Zinc	82.1	MG/KG	3.04	0.37	25	
02NE88SB027	8/20/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.13	0.049	1	
02NE88SB027	8/20/2002		SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.25	0.0086	1	
02NE88SB027	8/20/2002	CS			PCB-1232 (Aroclor 1232)	ND	MG/KG	0.13	0.02	1	
02NE88SB027	8/20/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.13	0.0075	1	
02NE88SB027	8/20/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242) PCB-1248 (Aroclor 1248)	ND	MG/KG	0.13	0.0052	1	
02NE88SB027	8/20/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248) PCB-1254 (Aroclor 1254)	ND	MG/KG	0.13	0.01	1	
02NE88SB027	8/20/2002	CS	SO	SW8082		0.035	MG/KG	0.13	0.0056	1	VJ
02NE88SB027	8/20/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)		MG/KG	0.017	0.013	1	
02NE88SB027	8/20/2002	CS	SO	SW8260B	Benzene	0.019	MG/KG	0.041	0.012	1	
02NE88SB027	8/20/2002	CS	SO	SW8260B	Ethylbenzene	0.066		0.041	0.0096	1	
02NE88SB027	8/20/2002	CS	SO	SW8260B	o-Xylene	1.7	MG/KG	0.041	0.0090	1	VJ
02NE88SB027	8/20/2002	CS	SO	SW8260B	Toluene	0.036	MG/KG	0.041	0.012	1	
02NE88SB027	8/20/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.71	MG/KG		0.02	1	
02NE88SB027	8/20/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	4.67	PERCENT	0.05	2.8	1	
02NE88SB028	8/20/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	62	MG/KG	4.5 25	12	1	
02NE88SB028	8/20/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	210	MG/KG	250	11	1	
02NE88SB028	8/20/2002	CS	SO	AK103	Residual Range Organics	900	MG/KG	200	- ''	1	
02NE88SB028	8/20/2002	CS	SO	E160.3M	Total Solids	72.4	PERCENT	0000	.0003	1	
02NE88SB028	8/20/2002	CS	SO	SIM	Acenaphthene	.012	MG/KG	.0069	.0003	1	
02NE88SB028	8/20/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0069	.00023	1	VJ
02NE88SB028	8/20/2002	CS	SO	SIM	Anthracene	.00076	MG/KG	.0069	.00027	1	VJ V3
02NE88SB028	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	.00032	MG/KG	.0069		1	- 40
02NE88SB028	8/20/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0069	.0002	1	VJ
02NE88SB028	8/20/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0012	MG/KG	.0069	.0002	1	VJ
02NE88SB028	8/20/2002	CS	so	SIM	Benzo(g,h,i)perylene	.00048	MG/KG	.0069	.00014	1	٧٥
02NE88SB028	8/20/2002	CS	so	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0069	.00021	1	VJ
02NE88SB028	8/20/2002	CS	SO	SIM	Chrysene	.0029	MG/KG	.0069	.00021	1	VJ
02NE88SB028	8/20/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0069	.00025	-	VJ
02NE88SB028	8/20/2002	CS	SO	SIM	Fluoranthene	.00069	MG/KG	.0069	.00024	1	VJ
02NE88SB028	8/20/2002	CS	SO	SIM	Fluorene	.04	MG/KG	.0069	.00024	1	
02NE88SB028	8/20/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0069	.00021	1	
02NE88SB028	8/20/2002	CS	SO	SIM	Naphthalene	.41	MG/KG	.0069	.0003	1	
02NE88SB028	8/20/2002	CS	SO	SIM	Phenanthrene	.025	MG/KG	.0069	.00021	1	7
02NE88SB028	8/20/2002	CS	SO	SIM	Pyrene	.001	MG/KG	.0069	.00016	1	VJ
02NE88SB028	8/20/2002	cs	so	SW6020	Chromium	22.8	MG/KG	1.15	0.06	25	
02NE88SB028	8/20/2002	CS	so	SW6020	Lead	11.6	MG/KG	0.29	0.17	25	
	8/20/2002	CS	SO	SW6020	Zinc	59.9	MG/KG	2.88	0.35	25	
02NE88SB028	8/20/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.14	0.056	1	
02NE88SB028	8/20/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.28	0.0097	1	
02NE88SB028		CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.14	0.023	1	
02NE88SB028	8/20/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.14	0.0085	1	
02NE88SB028	8/20/2002	US	50	3440002	1 0D-1242 (A100101 1242)						



sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB028	8/20/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.14	0.0059	1	
02NE88SB028	8/20/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.14	0.012	1	
02NE88SB028	8/20/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.14	0.0064	1	
02NE88SB028	8/20/2002	CS	SO	SW8260B	Benzene	0.024	MG/KG	0.018	0.015	1	ļ. <u>.</u>
02NE88SB028	8/20/2002	CS	SO	SW8260B	Ethylbenzene	0.19	MG/KG	0.045	0.014	1 1	
02NE88\$B028	8/20/2002	cs	so	SW8260B	o-Xylene	1.7	MG/KG	0.045	0.011	1	
02NE88SB028	8/20/2002	CS	SO	SW8260B	Toluene	1.4	MG/KG	0.045	0.014	1	
02NE88SB028	8/20/2002	CS	SO	SW8260B	Xylene, Isomers m & p	1.3	MG/KG	0.045	0.026	1	
02NE88SB028	8/20/2002	CS	so	SW9060	Total Organic Carbon (TOC)	2.79	PERCENT	0.05	0.02	1	L
02NE88SB029	8/20/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	4.9	2.5	1	
02NE88SB029	8/20/2002	CS	so	AK102	Diesel Range Organics (C10-C25)	33	MG/KG	13	5.6	1	<u> </u>
02NE88\$B029	8/20/2002	CS	so	AK103	Residual Range Organics	150	MG/KG	130	5.3	1	
02NE88SB029	8/20/2002	CS CS	SO	E160.3M	Total Solids	80.7	PERCENT			1	
02NE88SB029	8/20/2002	CS	SO	SIM	Acenaphthene	.00038	MG/KG	.0062	.00027	1	VJ
02NE88SB029	8/20/2002	CS	so	SIM	Acenaphthylene	ND	MG/KG	.0062	.0002	1	
02NE88SB029	8/20/2002	CS	so	SIM	Anthracene	.0003	MG/KG	.0062	.00024	1	٧J
02NE88SB029	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	.00024	MG/KG	.0062	.00017	1	VJ
02NE88SB029	8/20/2002	CS CS	so	SIM	Benzo(a)pyrene	ND	MG/KG	.0062	.00018	1	
		CS	SO	SIM	Benzo(b)fluoranthene	ND	MG/KG	.0062	.00018	1	
02NE88\$B029	8/20/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00024	MG/KG	.0062	.00013	1	VJ
02NE88SB029	8/20/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0062	.00019	1	
02NE88SB029	8/20/2002		SO	SIM	Chrysene	.0013	MG/KG	.0062	.00019	1	VJ
02NE88SB029	8/20/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND ND	MG/KG	.0062	.00023	1	1
02NE88SB029	8/20/2002	CS	SO	SIM	Fluoranthene	.00077	MG/KG	.0062	.00022	1	VJ
02NE88SB029	8/20/2002	CS			Fluorantifette	.0012	MG/KG	.0062	.00022	1	VJ
02NE88SB029	8/20/2002	CS	SO	SIM		ND	MG/KG	.0062	.00019	1	
02NE88SB029	8/20/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	.016	MG/KG	.0062	.00010	1	
02NE88SB029	8/20/2002	CS	SO	SIM	Naphthalene	.0034	MG/KG	.0062	.00027	1	VJ
02NE88SB029	8/20/2002	CS	SO	SIM	Phenanthrene			.0062	.00013	1	VJ
02NE88SB029	8/20/2002	CS	SO	SIM	Pyrene	.00066	MG/KG	1.03	0.05	25	
02NE88SB029	8/20/2002	CS	SO	SW6020	Chromium	23	MG/KG	0.26	0.05	25	
02NE88SB029	8/20/2002	CS	so	SW6020	Lead	12	MG/KG	2.58	0.10	25	
02NE88SB029	8/20/2002	CS	SO	SW6020	Zinc	61.9	MG/KG		0.05	1	
02NE88SB029	8/20/2002	CS	SO	SW8082	PCB-1016 (Aroclar 1016)	ND	MG/KG	0.13	0.0087	 	
02NE88SB029	8/20/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.25	0.0087	1	
02NE88SB029	8/20/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.13	0.02	1	·
02NE88SB029	8/20/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.13		1	
02NE88SB029	8/20/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.13	0.0053	1	l
02NE88SB029	8/20/2002	CS	so	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.13	0.011	- 	
02NE88SB029	8/20/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.13	0.0058 0.014	1	
02NE88SB029	8/20/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.018		1	
02NE88SB029	8/20/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.044	0.013	1	VJ
02NE88SB029	8/20/2002	CS	SO	SW8260B	o-Xylene	0.01	MG/KG	0.044	0.0098	1	VJ
02NE88SB029	8/20/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.044	0.013		
02NE88SB029	8/20/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.044	0.024	1 1	
02NE88SB029	8/20/2002	CS	ŞO	SW9060	Total Organic Carbon (TOC)	0.6	PERCENT	0.05	0.02	1	
02NE88SB030	8/20/2002	cs	SO	ÁK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	4.4	2.6	1	ļ
02NE88SB030	8/20/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	79	MG/KG	13	5.8	1	
02NE88SB030	8/20/2002	CS	SO	AK103	Residual Range Organics	590	MG/KG	130	5.5	1	
02NE88SB030	8/20/2002	CS	SO	E160.3M	Total Solids	78	PERCENT			1	
02NE88SB030	8/20/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.0064	.00027	1	
02NE88SB030	8/20/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0064	.00021	11	
*************		CS	so	SIM	Anthracene	ND	MG/KG	.0064	.00025	1	L
02NE88SB030	8/20/2002	US _	50	Silvi	Antiliacene	1,10	, rici, ico				

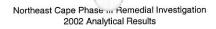
sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB030	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0064	.00017	1	
02NE88SB030	8/20/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0064	.00018	1	
02NE88SB030	8/20/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0017	MG/KG	.0064	.00018	1	VJ
02NE88SB030	8/20/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00044	MG/KG	.0064	.00013	1	VJ
02NE88SB030	8/20/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0064	.0002	1	
02NE88SB030	8/20/2002	CS	so	SIM	Chrysene	.0021	MG/KG	.0064	.0002	1	VJ
02NE88SB030	8/20/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0064	.00024	1	
02NE88SB030	8/20/2002	CS	SO	SIM	Fluoranthene	.00044	MG/KG	.0064	.00022	1	VJ
02NE88SB030	8/20/2002	CS	SO	SIM	Fluorene	.00087	MG/KG	.0064	.00022	1	VJ
02NE88SB030	8/20/2002	CS	so	SIM	Indeno(1,2,3-cd)pyrene	ND.	MG/KG	.0064	.0002	1	
02NE88SB030	8/20/2002	CS	SO	SIM	Naphthalene	.0047	MG/KG	.0064	.00027	1	VJ
		CS	SO	SIM	Phenanthrene	.0055	MG/KG	.0064	.0002	1	VJ
02NE88SB030	8/20/2002	CS	SO	SIM	Pyrene	.00066	MG/KG	.0064	.00015	1	VJ
02NE88SB030	8/20/2002	CS	SO	SW6020	Chromium	23.4	MG/KG	1.07	0.05	25	
02NE88SB030	8/20/2002		SO	SW6020 SW6020	Lead	12.4	MG/KG	0.27	0.16	25	
02NE88SB030	8/20/2002	CS			Zinc	60.9	MG/KG	2.67	0.32	25	
02NE88SB030	8/20/2002	CS	SO	SW6020	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.13	0.052	1	
02NE88SB030	8/20/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016) PCB-1221 (Aroclor 1221)	ND	MG/KG	0.13	0.009	i	
02NE88SB030	8/20/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221) PCB-1232 (Aroclor 1232)	ND	MG/KG	0.13	0.021	i	
02NE88SB030	8/20/2002	CS	SO	SW8082		ND	MG/KG	0.13	0.0079	i	
02NE88SB030	8/20/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)		MG/KG	0.13	0.0079	i i	
02NE88SB030	8/20/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND			0.0034	i	
02NE88SB030	8/20/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.13			
02NE88SB030	8/20/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.13	0.0059	 	
02NE88SB030	8/20/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.021	0.014		
02NE88SB030	8/20/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.052	0.013	1	
02NE88SB030	8/20/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.052	0.011	1	
02NE88SB030	8/20/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.052	0.013	1	
02NE88SB030	8/20/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.052	0.024	1	
02NE88SB030	8/20/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	2.26	PERCENT	0.05	0.02	1	
02NE88SB031	8/20/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	110	MG/KG	4	2.2	1	VHB
02NE88SB031	8/20/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	16000	MG/KG	110	50	10	
02NE88SB031	8/20/2002	CS	SO	AK103	Residual Range Organics	33	MG/KG	110	4.7	1	VJ
02NE88SB031	8/20/2002	CS	SO	E160.3M	Total Solids	91.1	PERCENT			1	
02NE88SB031	8/20/2002	CS	SO	SIM	Acenaphthene	.85	MG/KG	.055	.0024	10	
02NE88SB031	8/20/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.055	.0018	10	
02NE88SB031	8/20/2002	CS	SO	SIM	Anthracene	.043	MG/KG	.0055	.00021	1	
02NE88SB031	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	.0017	MG/KG	.0055	.00015	1	VJ
02NE88SB031	8/20/2002	CS	SO	SIM	Benzo(a)pyrene	.00041	MG/KG	.0055	.00016	1	VJ
02NE88SB031	8/20/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0017	MG/KG	.0055	.00016	1	VJ
02NE88SB031	8/20/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00045	MG/KG	.0055	.00011	1	VJ
02NE88SB031	8/20/2002	CS	so	SIM	Benzo(k)fluoranthene	.0016	MG/KG	.0055	.00017	1	VJ
02NE88SB031	8/20/2002	CS	SO	SIM	Chrysene	.0038	MG/KG	.0055	.00017	1	VJ
		CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	1	
02NE88SB031	8/20/2002	CS	SO	SIM	Fluoranthene	.0058	MG/KG	.0055	.00019	1	
02NE88SB031	8/20/2002		so	SIM	Fluorene	2.7	MG/KG	.055	.0019	10	
02NE88SB031	8/20/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	.00019	MG/KG	.0055	.00017	1	VJ
02NE88SB031	8/20/2002	CS	SO	SIM	Naphthalene	28	MG/KG	.55	.024	100	
02NE88SB031	8/20/2002	CS		SIM	Phenanthrene	.95	MG/KG	.0055	.00017	1	
02NE88SB031	8/20/2002	CS	SO			.01	MG/KG	.0055	.00017	1 i	
02NE88SB031	8/20/2002	CS	SO	SIM	Pyrene	15.6	MG/KG	1.1	0.05	25	
02NE88SB031	8/20/2002	CS	SO	SW6020	Chromium	12.4	MG/KG	0.27	0.03	25	
02NE88SB031	8/20/2002	CS	SO	SW6020	Lead	12.4 46.7	MG/KG MG/KG	2.74	0.33	25	
02NE88SB031	8/20/2002	CS	SO	SW6020	Zinc	46.7	MG/KG	2.14	0.33	20	





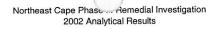
sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB031	8/20/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB031	8/20/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0077	1	
02NE88SB031	8/20/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB031	8/20/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
02NE88SB031	8/20/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0047	1	
02NE88SB031	8/20/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0091	1	
02NE88SB031	8/20/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB031	8/20/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.015	0.012	1	
02NE88SB031	8/20/2002	CS	SO	SW8260B	Ethylbenzene	1	MG/KG	0.036	0.011	1	
02NE88SB031	8/20/2002	CS	SO	SW8260B	o-Xylene	0.015	MG/KG	0.036	0.0087	1	VJ
02NE88SB031	8/20/2002	CS	SO	SW8260B	Toluene	0.032	MG/KG	0.036	0.011	1	VJ
02NE88SB031	8/20/2002	CS	SO	SW8260B	Xylene, Isomers m & p	1.8	MG/KG	0.036	0.021	1	
02NE88SB031	8/20/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.34	PERCENT	0.05	0.02	1	
02NE88SB032	8/20/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	60	MG/KG	4.5	2.2	1	VHB
02NE88SB032	8/20/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	4200	MG/KG	11	4.9	1	
02NE88SB032	8/20/2002	CS	so	AK103	Residual Range Organics	12	MG/KG	110	4.6	1	VJ
02NE88SB032	8/20/2002	CS	SO	E160.3M	Total Solids	93.5	PERCENT	110	1.0	1	
02NE88SB032	8/20/2002	CS	SO	SIM	Acenaphthene	.11	MG/KG	.0054	.00023	1	VLB
02NE88SB032	8/20/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0054	.00018	1	
02NE88SB032	8/20/2002	CS	SO	SIM	Anthracene	.011	MG/KG	.0054	.00021	1	VLB
02NE88SB032	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	.00037	MG/KG	.0054	.00014	1	VJ
02NE88SB032	8/20/2002	CS	so	SIM	Benzo(a)pyrene	ND	MG/KG	.0054	.00015	1	
02NE88SB032	8/20/2002	CS	so	SIM	Benzo(b)fluoranthene	.00042	MG/KG	.0054	.00015	1	VJ
02NE88SB032	8/20/2002	CS	so	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0054	.00013	1	- 40
02NE88SB032	8/20/2002	CS	so	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0054	.00017	1	
	8/20/2002	CS	SO	SIM	Chrysene	.00094	MG/KG	.0054	.00017	1	VJ
02NE88SB032	8/20/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0054	.00017		- 40
02NE88SB032		CS	so	SIM	Fluoranthene	.0017	MG/KG	.0054	.00019	1	VJ
02NE88SB032	8/20/2002	CS	SO	SIM	Fluorantiferie	.47	MG/KG	.0054	.00019	1	VLB
02NE88SB032	8/20/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0054	.00019	1	VLD
02NE88SB032	8/20/2002		SO	SIM		.9	MG/KG	.0054	.00017	1	VLB
02NE88SB032	8/20/2002	CS	SO	SIM	Naphthalene Phenanthrene	.9	MG/KG	.0054	.00023	1	VLB
02NE88SB032	8/20/2002					.0035	MG/KG	.0054	.00017	1	VJ
02NE88SB032	8/20/2002	CS	SO	SIM SW6020	Pyrene	6.7	MG/KG	1.07	0.05	25	٧٥
02NE88SB032	8/20/2002	CS	SO		Chromium		MG/KG	0.27	0.05	25	
02NE88SB032	8/20/2002	CS	SO	SW6020	Lead	29.6		2.67	0.16	25	
02NE88SB032	8/20/2002	CS	SO	SW6020	Zinc	60.8	MG/KG	0.11	0.043	1	
02NE88SB032	8/20/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.043	1	
02NE88SB032	8/20/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG		0.0075	1	
02NE88SB032	8/20/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11		1	
02NE88SB032	8/20/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0066	1	
02NE88SB032	8/20/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0045	1	
02NE88SB032	8/20/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0088		
02NE88SB032	8/20/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.005	1	
02NE88SB032	8/20/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.017	0.012	1	
02NE88SB032	8/20/2002	CS	SO	SW8260B	Ethylbenzene	0.025	MG/KG	0.041	0.011	1	VJ
02NE88SB032	8/20/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.041	0.0084	1	
02NE88SB032	8/20/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.041	0.011	1	
02NE88SB032	8/20/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.043	MG/KG	0.041	0.02	1	
02NE88SB032	8/20/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.12	PERCENT	0.05	0.02	1	
02NE88SB033	8/21/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	130	MG/KG	2.6	2.4	1	VHB
02NE88SB033	8/21/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	4700	MG/KG	120	53	10	
02NE88SB033	8/21/2002	CS	SO	AK103	Residual Range Organics	450	MG/KG	120	4.9	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB033	8/21/2002	CS	SO	E160.3M	Total Solids	86.5	PERCENT			1	
02NE88SB033	8/21/2002	CS	SO	SIM	Acenaphthene	.19	MG/KG	.0058	.00025	1	
	8/21/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0058	.00019	1	
02NE88SB033		CS	SO	SIM	Anthracene	.0085	MG/KG	.0058	.00022	1	
02NE88SB033	8/21/2002	CS	SO	SIM	Benzo(a)anthracene	.001	MG/KG	.0058	.00016	1	VJ
02NE88SB033	8/21/2002		SO	SIM	Benzo(a)pyrene	.00028	MG/KG	.0058	.00017	1	VJ
02NE88SB033	8/21/2002	CS	so	SIM	Benzo(b)fluoranthene	.0013	MG/KG	.0058	.00017	1	VJ
02NE88SB033	8/21/2002	CS		SIM	Benzo(g,h,i)perylene	.00054	MG/KG	.0058	.00012	1	VJ
02NE88SB033	8/21/2002	CS	SO SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0058	.00018	1	
02NE88SB033	8/21/2002	CS	SO	SIM	Chrysene	.0033	MG/KG	.0058	.00018	1	VJ
02NE88SB033	8/21/2002	CS		SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0058	.00021	1	
02NE88SB033	8/21/2002	CS	SO		Fluoranthene	.0021	MG/KG	.0058	.0002	1	VJ
02NE88SB033	8/21/2002	CS	SO	SIM	Fluoranthene	.44	MG/KG	.0058	.0002	1	
02NE88SB033	8/21/2002	CS	SO	SIM		.00023	MG/KG	.0058	.00018	1	VJ
02NE88SB033	8/21/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	12	MG/KG	.29	.013	50	
02NE88SB033	8/21/2002	CS	SO	SIM	Naphthalene	.25	MG/KG	.0058	.00018	1	
02NE88SB033	8/21/2002	CS	SO	SIM	Phenanthrene		MG/KG	.0058	.00013	1	VJ
02NE88SB033	8/21/2002	CS	SO	SIM	Pyrene	.0049		0.23	0.03	5	
02NE88SB033	8/21/2002	CS	SO	SW6020	Chromium	18.2	MG/KG	0.23	0.03	5	
02NE88SB033	8/21/2002	CS	SO	SW6020	Lead	14.7	MG/KG			5	
02NE88SB033	8/21/2002	CS	SO	SW6020	Zinc	50.8	MG/KG	0.6	0.1	1	
02NE88SB033	8/21/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.12	0.047	1	
02NE88SB033	8/21/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.24	0.0081		
02NE88SB033	8/21/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.12	0.019	1 1	
02NE88SB033	8/21/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.12	0.0071	1	
02NE88SB033	8/21/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.12	0.0049	1	
02NE88SB033	8/21/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.12	0.0095	1	
02NE88SB033	8/21/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.12	0.0054	1	
02NE88SB033	8/21/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.013	0.013	1	
02NE88SB033	8/21/2002	CS	SO	SW8260B	Ethylbenzene	1.2	MG/KG	0.021	0.012	1	VHB
02NE88SB033	8/21/2002	CS	SO	SW8260B	o-Xylene	1.5	MG/KG	0.021	0.0091	1	VHB
02NE88SB033	8/21/2002	CS	SO	SW8260B	Toluene	0.05	MG/KG	0.021	0.012	1	VHB
02NE88SB033	8/21/2002	CS	SO	SW8260B	Xylene, Isomers m & p	4	MG/KG	0.022	0.022	1	VHB
02NE88SB033	8/21/2002	cs	SO	SW9060	Total Organic Carbon (TOC)	1.1	PERCENT	0.05	0.02	1	
02NE88SB034	8/21/2002	CS	so	AK101	Gasoline Range Organics (C6-C10)	140	MG/KG	3	2.3	1	VHB
02NE88SB034	8/21/2002	cs	SO	AK102	Diesel Range Organics (C10-C25)	4300	MG/KG	120	51	10	
02NE88SB034	8/21/2002	CS	SO	AK103	Residual Range Organics	110	MG/KG	120	4.8	1	VJ
	8/21/2002	CS	SO	E160.3M	Total Solids	89.3	PERCENT			1	
02NE88SB034		CS	SO	SIM	Acenaphthene	.11	MG/KG	.0056	.00024	1	
02NE88SB034	8/21/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0056	.00018	1	
02NE88SB034	8/21/2002	CS	SO	SIM	Anthracene	.0041	MG/KG	.0056	.00022	1	VJ
02NE88SB034	8/21/2002	CS	SO	SIM	Benzo(a)anthracene	.00043	MG/KG	.0056	.00015	1	VJ
02NE88SB034	8/21/2002		SO	SIM	Benzo(a)pyrene	.00045	MG/KG	.0056	.00016	1	VJ
02NE88SB034	8/21/2002	CS		SIM	Benzo(b)fluoranthene	.0038	MG/KG	.0056	.00016	1	VJ
02NE88SB034	8/21/2002	CS	so		1	.00041	MG/KG	.0056	.00012	1	VJ
02NE88SB034	8/21/2002	CS	so	SIM	Benzo(g,h,i)perylene Benzo(k)fluoranthene	.0036	MG/KG	.0056	.00017	1	VJ
02NE88SB034	8/21/2002	CS	so	SIM		.0038	MG/KG	.0056	.00017	1	VJ
02NE88SB034	8/21/2002	CS	so	SIM	Chrysene	.00026	MG/KG	.0056	.00021	1	VJ
02NE88SB034	8/21/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	.00026	MG/KG	.0056	.0002	1	VJ
02NE88SB034	8/21/2002	CS	SO	SIM	Fluoranthene	.24	MG/KG	.0056	.0002	1	
02NE88SB034	8/21/2002	CS	SO	SIM	Fluorene	.00034	MG/KG	.0056	.0002	1	VJ
02NE88SB034	8/21/2002	CS	so	SIM	Indeno(1,2,3-cd)pyrene			.28	.012	50	
02NE88SB034	8/21/2002	CS	so	SIM	Naphthalene	3.6	MG/KG		.00017	1	
02NE88SB034	8/21/2002	CS	so	SIM	Phenanthrene	.11	MG/KG	.0056	.00017		



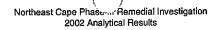
sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB034	8/21/2002	CS	SO	SIM	Pyrene	.0024	MG/KG	.0056	.00013	1	VJ
02NE88SB034	8/21/2002	CS	SO	SW6020	Chromium	8.31	MG/KG	0.22	0.03	5	
02NE88SB034	8/21/2002	CS	SO	SW6020	Lead	15	MG/KG	0.06	0.03	5	
02NE88SB034	8/21/2002	CS	SO	SW6020	Zinc	31.8	MG/KG	0.6	0.1	5	
02NE88SB034	8/21/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.12	0.045	1	
02NE88SB034	8/21/2002	CS	so	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.23	0.0079	1	
02NE88SB034	8/21/2002	CS	so	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.12	0.018	1	
02NE88SB034	8/21/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.12	0.0069	1	
02NE88SB034	8/21/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.12	0.0048	1	
02NE88SB034	8/21/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.12	0.0092	1	
02NE88SB034	8/21/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.12	0.0052	1	
02NE88SB034	8/21/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.012	0.012	1	
02NE88SB034	8/21/2002	CS	SO	SW8260B	Ethylbenzene	0.94	MG/KG	0.023	0.011	1	VHB
02NE88SB034	8/21/2002	CS	SO	SW8260B	o-Xylene	0.34	MG/KG	0.023	0.0088	1	VHB
02NE88SB034	8/21/2002	CS	so	SW8260B	Toluene	ND	MG/KG	0.023	0.011	1	
02NE88SB034	8/21/2002	CS	SO	SW8260B	Xylene, Isomers m & p	3	MG/KG	0.023	0.021	1	VHB
02NE88SB034	8/21/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.33	PERCENT	0.05	0.021	1	VJ
					Gasoline Range Organics (C6-C10)	100	MG/KG	2.5	2.2	1	VHB
02NE88SB035	8/21/2002	CS	SO	AK101	0 0 1		MG/KG	110	48	10	VIID
02NE88SB035	8/21/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	7300					VJ
02NE88SB035	8/21/2002	CS	SO	AK103	Residual Range Organics	24	MG/KG	110	4.5	1	VJ
02NE88SB035	8/21/2002	CS	SO	E160.3M	Total Solids	94.2	PERCENT			1	
02NE88SB035	8/21/2002	CS	SO	SIM	Acenaphthene	.15	MG/KG	.0054	.00023	1	
02NE88SB035	8/21/2002	CS	SO	SIM	Acenaphthylene	.052	MG/KG	.0054	.00017	1	
02NE88SB035	8/21/2002	CS	SO	SIM	Anthracene	.0059	MG/KG	.0054	.00021	1	
02NE88SB035	8/21/2002	CS	SO	SIM	Benzo(a)anthracene	.00044	MG/KG	.0054	.00014	1	VJ
02NE88SB035	8/21/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0054	.00015	1	
02NE88SB035	8/21/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00062	MG/KG	.0054	.00015	1	VJ
02NE88SB035	8/21/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00043	MG/KG	.0054	.00011	1	VJ
02NE88SB035	8/21/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0054	.00016	1	
02NE88SB035	8/21/2002	CS	SO	SIM	Chrysene	.0013	MG/KG	.0054	.00016	1	VJ
02NE88SB035	8/21/2002	CS	so	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0054	.0002	1	
02NE88SB035	8/21/2002	CS	SO	SIM	Fluoranthene	.0013	MG/KG	.0054	.00019	1	VJ
02NE88SB035	8/21/2002	CS	SO	SIM	Fluorene	.42	MG/KG	.0054	.00019	1	
02NE88SB035	8/21/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0054	.00016	1	
02NE88SB035	8/21/2002	CS	SO	SIM	Naphthalene	10	MG/KG	.27	.012	50	
02NE88SB035	8/21/2002	CS	SO	SIM	Phenanthrene	.18	MG/KG	.0054	.00016	1	
02NE88SB035	8/21/2002	CS	so	SIM	Pyrene	.0027	MG/KG	.0054	.00012	1	VJ
02NE88SB035	8/21/2002	CS	SO	SW6020	Chromium	14	MG/KG	0.21	0.03	5	
02NE88SB035	8/21/2002	CS	SO	SW6020	Lead	18.4	MG/KG	0.05	0.03	5	
02NE88SB035	8/21/2002	CS	SO	SW6020	Zinc	49	MG/KG	0.5	0.1	5	
	8/21/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.043	1	
02NE88SB035			SO	SW8082 SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.21	0.0075	1	
02NE88SB035	8/21/2002	CS			PCB-1221 (Aroclor 1221) PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.0075	1	
02NE88SB035	8/21/2002	CS	SO	SW8082		ND	MG/KG	0.11	0.0065	1	
02NE88SB035	8/21/2002	CS	SO	SW8082	PCB-1242 (Arcolor 1242)			0.11	0.0065	1	
02NE88SB035	8/21/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG		0.0045	1	
02NE88SB035	8/21/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11			
02NE88SB035	8/21/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0049	1 1	VHB
02NE88SB035	8/21/2002	CS	SO	SW8260B	Benzene	0.018	MG/KG	0.012	0.012		
02NE88SB035	8/21/2002	CS	SO	SW8260B	Ethylbenzene	1.1	MG/KG	0.025	0.011	1	VHB
02NE88SB035	8/21/2002	CS	SO	SW8260B	o-Xylene	0.019	MG/KG	0.025	0.0084	1	VJ
02NE88SB035	8/21/2002	CS	SO	SW8260B	Toluene	0.018	MG/KG	0.025	0.011	11	VJ
02NE88SB035	8/21/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.95	MG/KG	0.025	0.02	1	VHB

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB035	8/21/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.22	PERCENT	0.05	0.02	1	
02NE88SB036	8/21/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	170	MG/KG	3.3	2.6	1	VHB
02NE88SB036	8/21/2002	CS	so	AK102	Diesel Range Organics (C10-C25)	4000	MG/KG	13	5.7	1	VJ
02NE88SB036	8/21/2002	CS	so	AK103	Residual Range Organics	220	MG/KG	130	5.3	11	
02NE88SB036	8/21/2002	CS	SO	E160.3M	Total Solids	79.6	PERCENT			1	
02NE88SB036	8/21/2002	CS	so	SIM	Acenaphthene	.13	MG/KG	.0063	.00027	1	VJ
02NE88SB036	8/21/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0063	.00021	1	
02NE88SB036	8/21/2002	CS	SO	SIM	Anthracene	.0039	MG/KG	.0063	.00024	1	VJ
02NE88SB036	8/21/2002	CS	so	SIM	Benzo(a)anthracene	.00021	MG/KG	.0063	.00017	1	VJ
02NE88SB036	8/21/2002	CS	so	SIM	Benzo(a)pyrene	ND	MG/KG	.0063	.00018	1	
02NE88SB036	8/21/2002	CS	so	SIM	Benzo(b)fluoranthene	.00056	MG/KG	.0063	.00018	1	VJ
02NE88SB036	8/21/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00031	MG/KG	.0063	.00013	1	VJ
02NE88SB036	8/21/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0063	.00019	1	
		CS	SO	SIM	Chrysene	.0014	MG/KG	.0063	.00019	1	VJ
02NE88SB036	8/21/2002		SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0063	.00023	1	
02NE88SB036	8/21/2002	CS		SIM	Fluoranthene	.00097	MG/KG	.0063	.00022	1	VJ
02NE88SB036	8/21/2002	CS	SO			.38	MG/KG	.0063	.00022	i	VJ
02NE88SB036	8/21/2002	CS	SO	SIM	Fluorene	ND	MG/KG	.0063	.00022	1	
02NE88SB036	8/21/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	6.9	MG/KG MG/KG	.32	.014	50	VJ
02NE88SB036	8/21/2002	CS	SO	SIM	Naphthalene	.14	MG/KG MG/KG	.0063	.00019	1	VJ
02NE88SB036	8/21/2002	CS	SO	SIM	Phenanthrene	.002	MG/KG	.0063	.00019	1 1	VJ
02NE88SB036	8/21/2002	CS	SO	SIM	Pyrene	16.7	MG/KG MG/KG	0.25	0.04	5	VJ
02NE88SB036	8/21/2002	CS	so	SW6020	Chromium		MG/KG MG/KG	0.25	0.04	5	VJ
02NE88SB036	8/21/2002	CS	SO	SW6020	Lead	21.1			0.04	5	VJ
02NE88SB036	8/21/2002	CS	SO	SW6020	Zinc	57.5	MG/KG	0.6	0.051	1	V0
02NE88SB036	8/21/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.13	0.0088	1	
02NE88SB036	8/21/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.25		1	
02NE88SB036	8/21/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.13	0.021	 	
02NE88SB036	8/21/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.13	0.0077	1	
02NE88SB036	8/21/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.13	0.0053	1	
02NE88SB036	8/21/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.13	0.011		VJ
02NE88SB036	8/21/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	0.033	MG/KG	0.13	0.0058	1 1	A2
02NE88SB036	8/21/2002	CS	SO	SW8260B	Benzene	0.062	MG/KG	0.014	0.014		
02NE88SB036	8/21/2002	CS	SO	SW8260B	Ethylbenzene	2.2	MG/KG	0.03	0.013	1	VJ
02NE88SB036	8/21/2002	CS	SO	SW8260B	o-Xylene	1.3	MG/KG	0.03	0.0099	1	VJ
02NE88SB036	8/21/2002	CS	SO	SW8260B	Toluene	0.041	MG/KG	0.03	0.013	1	
02NE88SB036	8/21/2002	CS	SO	SW8260B	Xylene, Isomers m & p	4.4	MG/KG	0.03	0.024	1	VJ
02NE88SB036	8/21/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.81	PERCENT	0.05	0.02	1	VJ
02NE88SB206	8/17/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	41	MG/KG	6.1	2.5	11	
02NE88SB206	8/17/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	2900	MG/KG	11	5	1	
02NE88SB206	8/17/2002	CS	SO	AK103	Residual Range Organics	23	MG/KG	110	4.7	1	VJ
02NE88SB206	8/17/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.15	PERCENT	0.05	0.02	1	
02NE88SB206	8/17/2002	CS	SO	E160.3M	Total Solids	90.6	PERCENT			1	
02NE88SB206	8/17/2002	CS	SO	SIM	Acenaphthene	.13	MG/KG	.0056	.00024	1	
02NE88SB206	8/17/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0056	.00018	1	
02NE88SB206	8/17/2002	CS	SO	SIM	Anthracene	.029	MG/KG	.0056	.00021	1	
02NE88SB206	8/17/2002	CS	so	SIM	Benzo(a)anthracene	.0011	MG/KG	.0056	.00015	1	VJ
02NE88SB206	8/17/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0056	.00016	1	
02NE88SB206	8/17/2002	CS	SO	SIM	Benzo(b)fluoranthene	ND	MG/KG	.0056	.00016	1	
02NE88SB206	8/17/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0056	.00012	1	
	8/17/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0056	.00017	1	
02NE88SB206 02NE88SB206	8/17/2002	CS	SO	SIM	Chrysene	.0027	MG/KG	.0056	.00017	1	VJ
	0/1//2002	US	1 30	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0056	.0002	1	



sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB206	8/17/2002	CS	so	SIM	Fluoranthene	.004	MG/KG	.0056	.00019	1	VJ
02NE88SB206	8/17/2002	CS	SO	SIM	Fluorene	.33	MG/KG	.0056	.00019	1	
02NE88SB206	8/17/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0056	.00017	11	
02NE88SB206	8/17/2002	CS	SO	SIM	Naphthalene	1	MG/KG	.056	.0024	10	
02NE88SB206	8/17/2002	CS	SO	SIM	Phenanthrene	.43	MG/KG	.0056	.00017	1	
02NE88SB206	8/17/2002	cs	so	SIM	Pyrene	.01	MG/KG	.0056	.00013	1	
02NE88SB206	8/17/2002	CS	SO	SW6020	Chromium	10.8	MG/KG	0.22	0.01	5	
02NE88SB206	8/17/2002	CS	SO	SW6020	Lead	61.1	MG/KG	0.06	0.03	5	
02NE88SB206	8/17/2002	CS	SO	SW6020	Zinc	55.9	MG/KG	0.55	0.07	5	
02NE88SB206	8/17/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.045	1	
02NE88SB206	8/17/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0078	1	
02NE88SB206	8/17/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB206	8/17/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0068	1	
02NE88SB206	8/17/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0047	1	
		CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0091	1	
02NE88SB206	8/17/2002	CS	SO	SW8082 SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB206	8/17/2002	CS	SO	SW8082 SW8260B	Benzene	ND	MG/KG	0.021	0.012	i	
02NE88SB206	8/17/2002	CS	SO	SW8260B	Ethylbenzene	0.092	MG/KG	0.053	0.011	1	
02NE88SB206	8/17/2002	CS	SO	SW8260B SW8260B	o-Xylene	ND	MG/KG	0.053	0.0087	1	
02NE88SB206	8/17/2002				Toluene	ND	MG/KG	0.053	0.011	i	
02NE88SB206	8/17/2002	CS	SO	SW8260B		0.094	MG/KG	0.053	0.021	1	
02NE88SB206	8/17/2002	CS	SO	SW8260B	Xylene, Isomers m & p	110	MG/KG	2.3	2.2	1	VHB
02NE88SB234	8/21/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	3100	MG/KG	11	5	i	*****
02NE88SB234	8/21/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)			110	4.7	i i	VJ
02NE88SB234	8/21/2002	CS	SO	AK103	Residual Range Organics	54	MG/KG	110	4.7	1	¥0
02NE88SB234	8/21/2002	CS	SO	E160.3M	Total Solids	91.2	PERCENT	.0055	.00024	1	
02NE88SB234	8/21/2002	CS	SO	SIM	Acenaphthene	.089	MG/KG		.00024	1	
02NE88SB234	8/21/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	1	VJ
02NE88SB234	8/21/2002	CS	SO	SIM	Anthracene	.0033	MG/KG	.0055		1	VJ
02NE88SB234	8/21/2002	CS	SO	SIM	Benzo(a)anthracene	.00021	MG/KG	.0055	.00015		VJ
02NE88SB234	8/21/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	V/1
02NE88SB234	8/21/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00041	MG/KG	.0055	.00016	1	VJ
02NE88SB234	8/21/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0055	.00011	1	
02NE88SB234	8/21/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	
02NE88SB234	8/21/2002	CS	SO	SIM	Chrysene	.00091	MG/KG	.0055	.00017	1	VJ
02NE88SB234	8/21/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	.00031	MG/KG	.0055	.0002	1	VJ
02NE88SB234	8/21/2002	CS	SO	SIM	Fluoranthene	.00079	MG/KG	.0055	.00019	1	٧J
02NE88SB234	8/21/2002	CS	SO	SIM	Fluorene	.2	MG/KG	.0055	.00019	1	
02NE88SB234	8/21/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0055	.00017	1	
02NE88SB234	8/21/2002	CS	SO	SIM	Naphthalene	3.8	MG/KG	.28	.012	50	
02NE88SB234	8/21/2002	CS	SO	SIM	Phenanthrene	.091	MG/KG	.0055	.00017	1	
02NE88SB234	8/21/2002	CS	SO	SIM	Pyrene	.0018	MG/KG	.0055	.00013	1	۸٦
02NE88SB234	8/21/2002	CS	SO	SW6020	Chromium	10.8	MG/KG	0.22	0.03	5	
02NE88SB234	8/21/2002	CS	SO	SW6020	Lead	15.3	MG/KG	0.05	0.03	5	
02NE88SB234	8/21/2002	CS	SO	SW6020	Zinc	40.2	MG/KG	0.5	0.1	5	
02NE88SB234	8/21/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB234	8/21/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0077	11	
02NE88SB234	8/21/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB234	8/21/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
02NE88SB234	8/21/2002	CS	so	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0047	11	
02NE88SB234	8/21/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.009	1	
02NE88SB234	8/21/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
		CS	SO	SW8260B	Benzene	ND	MG/KG	0.012	0.012	1	
02NE88SB234	8/21/2002	US	30	3440200D	Delizelle	1,10					

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB234	8/21/2002	CS	so	SW8260B	Ethylbenzene	0.83	MG/KG	0.025	0.011	1	VHB
02NE88SB234	8/21/2002	CS	SO	SW8260B	o-Xylene	0.27	MG/KG	0.025	0.0087	1	VHB
02NE88SB234	8/21/2002	CS	so	SW8260B	Toluene	ND	MG/KG	0.025	0.011	1	
02NE88SB234	8/21/2002	CS	SO	SW8260B	Xylene, Isomers m & p	2.8	MG/KG	0.025	0.021	1	VHB
02NE88SB234	8/21/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.19	PERCENT	0.05	0.02	1	
02NE88SB236	8/21/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	88	MG/KG	2.5	2.2	1	VHB
02NE88SB236	8/21/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	13000	MG/KG	110	50	10	
02NE88SB236	8/21/2002	CS	SO	AK103	Residual Range Organics	180	MG/KG	110	4.7	1	
02NE88SB236	8/21/2002	CS	SO	E160.3M	Total Solids	91.3	PERCENT			1	
02NE88SB236	8/21/2002	CS	SO	SIM	Acenaphthene	.25	MG/KG	.0055	.00024	1	
02NE88SB236	8/21/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	1	
	8/21/2002	CS	SO	SIM	Anthracene	.013	MG/KG	.0055	.00021	1	
02NE88SB236 02NE88SB236	8/21/2002	CS	SO	SIM	Benzo(a)anthracene	.001	MG/KG	.0055	.00015	1	VJ
02NE88SB236	8/21/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	
	8/21/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0016	MG/KG	.0055	.00016	1	VJ
02NE88SB236		CS	SO	SIM	Benzo(g,h,i)perylene	.00034	MG/KG	.0055	.00011	1	VJ
02NE88SB236	8/21/2002		SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	
02NE88SB236	8/21/2002	CS	SO	SIM	Chrysene	.0021	MG/KG	.0055	.00017	1	VJ
02NE88SB236	8/21/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	1	
02NE88SB236	8/21/2002	CS			Fluoranthene	.0027	MG/KG	.0055	.00019	1	VJ
02NE88SB236	8/21/2002	CS	SO	SIM		.74	MG/KG	.0055	.00019	1	
02NE88SB236	8/21/2002	CS	SO	SIM	Fluorene	.00019	MG/KG	.0055	.00017	1	VJ
02NE88SB236	8/21/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	23	MG/KG	.55	.024	100	
02NE88SB236	8/21/2002	CS	SO	SIM	Naphthalene		MG/KG MG/KG	.0055	.00017	1	
02NE88SB236	8/21/2002	CS	SO	SIM	Phenanthrene	.44			.00017	1	VJ
02NE88SB236	8/21/2002	CS	SO	SIM	Pyrene	.005	MG/KG	.0055		5	V 0
02NE88SB236	8/21/2002	CS	SO	SW6020	Chromium	9.64	MG/KG	0.22	0.03	5	
02NE88SB236	8/21/2002	CS	SO	SW6020	Lead	12.6	MG/KG	0.05	0.03	5	
02NE88SB236	8/21/2002	CS	SO	SW6020	Zinc	31.9	MG/KG	0.5	0.1	1	
02NE88SB236	8/21/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11		1	
02NE88SB236	8/21/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0077	1	
02NE88SB236	8/21/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB236	8/21/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067		
02NE88SB236	8/21/2002	CS	so	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0047	1	
02NE88SB236	8/21/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.009	1 1	VJ
02NE88SB236	8/21/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	0.059	MG/KG	0.11	0.0051	1	٧٥
02NE88SB236	8/21/2002	CS	SO	SW8260B	Benzene	0.023	MG/KG	0.012	0.012	1	
02NE88SB236	8/21/2002	CS	SO	SW8260B	Ethylbenzene	0.66	MG/KG	0.023	0.011	1	
02NE88SB236	8/21/2002	CS	SO	SW8260B	o-Xylene	0.58	MG/KG	0.023	0.0086	1	VJ
02NE88SB236	8/21/2002	CS	so	SW8260B	Toluene	0.022	MG/KG	0.023	0.011		VJ
02NE88SB236	8/21/2002	CS	SO	SW8260B	Xylene, Isomers m & p	1.5	MG/KG	0.023	0.021	1 1	
02NE88SB236	8/21/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.48	PERCENT	0.05	0.02		
		- Annual Control of the Control of t			Analytical Results-Site 22 Soil San				,		
02NE88SB037	8/22/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	4.1	2.3	11	
02NE88SB037	8/22/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	ND	MG/KG	11	5	1	
02NE88SB037	8/22/2002	CS	SO	AK103	Residual Range Organics	13	MG/KG	110	4.7	1	٧J
02NE88SB037	8/22/2002	CS	SO	E160.3M	Total Solids	90.5	PERCENT			1	
02NE88SB037	8/22/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.0056	.00024	1	
02NE88SB037	8/22/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0056	.00018	1	
02NE88SB037	8/22/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0056	.00021	1	
02NE88SB037	8/22/2002	CS	SO	SIM	Benzo(a)anthracene	.00017	MG/KG	.0056	.00015	11	VJ
	8/22/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0056	.00016	1	
02NE88SB037		CS	SO	SIM	Benzo(b)fluoranthene	ND	MG/KG	.0056	.00016	1	
02NE88SB037	8/22/2002	1 65	30	SIIVI	Denzo(D)ndorantrione	1					



sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB037	8/22/2002	CS	so	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0056	.00012	1	
02NE88SB037	8/22/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0056	.00017	1	
02NE88SB037	8/22/2002	cs	SO	SIM	Chrysene	.00036	MG/KG	.0056	.00017	1	VJ
02NE88SB037	8/22/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KĞ	.0056	.0002	1	
02NE88SB037	8/22/2002	CS	so	SIM	Fluoranthene	.00073	MG/KG	.0056	.00019	1	VJ
02NE88SB037	8/22/2002	cs	so	SIM	Fluorene	ND	MG/KG	.0056	.00019	1	
02NE88SB037	8/22/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0056	.00017	1	
02NE88SB037	8/22/2002	ÇS	so	SIM	Naphthalene	.00092	MG/KG	.0056	.00024	1	VJ
02NE88SB037	8/22/2002	CS	so	SIM	Phenanthrene	.0012	MG/KG	.0056	.00017	1	VJ
02NE88SB037	8/22/2002	CS	so	SIM	Pyrene	.00044	MG/KG	.0056	.00013	1	٧J
02NE88SB037	8/22/2002	CS	SO	SW6020	Chromium	7.26	MG/KG	0.22	0.03	5	
02NE88SB037	8/22/2002	cs	SO	SW6020	Lead	30.5	MG/KG	0.06	0.03	5	
02NE88SB037	8/22/2002	CS	SO	SW6020	Zinc	69.8	MG/KG	0.6	0.1	5	
02NE88SB037	8/22/2002	CS	so	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.045	1	
02NE88SB037	8/22/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0078	1	
02NE88SB037	8/22/2002	CS CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB037	8/22/2002	CS CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.0068	1	
02NE88SB037	8/22/2002	CS	SO SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0047	1	
02NE88SB037	8/22/2002	CS CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0091	1	
02NE88SB037	8/22/2002	CS	so	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB037	8/22/2002	CS	so	SW8260B	Benzene	ND	MG/KG	0.019	0,012	1	
02NE88SB037	8/22/2002	CS	so	SW8260B	Ethylbenzene	ND	MG/KG	0.047	0.011	1	
	8/22/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.047	0.0087	1	
02NE88SB037		CS	SO	SW8260B	Toluene	ND	MG/KG	0.047	0.011	1	
02NE88SB037	8/22/2002 8/22/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.047	0.021	1	
02NE88SB037	8/22/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.1	PERCENT	0.05	0.02	1	
02NE88SB037 02NE88SB038	8/22/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	4.3	2.2	1	
	8/22/2002	CS	SO	AK101 AK102	Diesel Range Organics (C10-C25)	ND	MG/KG	11	4.8	i	
02NE88SB038		CS	SO	AK102 AK103	Residual Range Organics	5.4	MG/KG	110	4.5	1	VJ
02NE88SB038	8/22/2002	CS	so	E160.3M	Total Solids	94.4	PERCENT	110	4.0	1	
02NE88SB038	8/22/2002	CS	so	SIM	Acenaphthene	ND	MG/KG	.0053	.00023	<u> </u>	
02NE88SB038	8/22/2002	CS	so	SIM	Acenaphthylene	ND	MG/KG	.0053	.00017	1	
02NE88SB038	8/22/2002		SO	SIM	Anthracene	ND	MG/KG	.0053	.00017	1	
02NE88SB038	8/22/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0053	.00014	<u> </u>	
02NE88SB038	8/22/2002	CS		SIM		ND	MG/KG	.0053	.00015	1	
02NE88SB038	8/22/2002	cs	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0053	.00015	<u> </u>	
02NE88SB038	8/22/2002	CS .	SO		Benzo(b)fluoranthene	.00015	MG/KG	.0053	.00013	1	VJ
02NE88SB038	8/22/2002	ĊS	SO	SIM	Benzo(g,h,i)perylene	.00015 ND	MG/KG	.0053	.00016	1	,,,,,,
02NE88SB038	8/22/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0053	.00016	1	
02NE88SB038	8/22/2002	cs	SO	SIM	Chrysene		MG/KG	.0053	.00016	1	
02NE88SB038	8/22/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND		.0053	.0002		
02NE88SB038	8/22/2002	CS	SO	SIM	Fluoranthene	ND	MG/KG MG/KG	.0053	.00019	1 -	
02NE88SB038	8/22/2002	CS	SO	SIM	Fluorene	ND		.0053	.00019	 	
02NE88SB038	8/22/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0053	.00016	1	
02NE88SB038	8/22/2002	CS	SO	SIM	Naphthalene	ND	MG/KG		.00023	1	VJ
02NE88\$B038	8/22/2002	CS	SO	SIM	Phenanthrene	.00022	MG/KG	.0053	.00018	1	V
02NE88SB038	8/22/2002	CS	SO	SIM	Pyrene	ND	MG/KG	.0053		5	
02NE88SB038	8/22/2002	CS	SO	SW6020	Chromium	7.87	MG/KG	0.21	0.03	5	
02NE88SB038	8/22/2002	CS	SO	SW6020	Lead	41.3	MG/KG	0.05	0.03	5	
02NE88SB038	8/22/2002	CS	SO	SW6020	Zinc	90.3	MG/KG	0.5	0.1	1	
02NE88SB038	8/22/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.043	1	
02NE88SB038	8/22/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0075	1 1	
02NE88SB038	8/22/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND_	MG/KG	0.11	0.017	<u> </u>	<u> </u>

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sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB038	8/22/2002	cs	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0065	11	
02NE88SB038	8/22/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0045	1	
02NE88\$B038	8/22/2002	CS CS	so	SW8082	PCB-1254 (Araclor 1254)	ND	MG/KG	0.11	0.0087	1	
02NE88SB038	8/22/2002	CS CS	so	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0049	1	
02NE88SB038	8/22/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.017	0.012	1	
02NE88SB038	8/22/2002	cs	so	SW8260B	Ethylbenzene	ND	MG/KG	0.042	0.011	1	
02NE88SB038	8/22/2002	cs	so	SW8260B	o-Xylene	ND	MG/KG	0.042	0.0084	11	
02NE88SB038	8/22/2002	- CS	so	SW8260B	Toluene	ND	MG/KG	0.042	0.011	1	
02NE88SB038	8/22/2002	ČS .	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.042	0.02	1	
02NE88SB038	8/22/2002	CS -	so	SW9060	Total Organic Carbon (TOC)	0.06	PERCENT	0.05	0.02	1	L
02NE88SB039	8/22/2002	CS CS	so	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	4	2.2	11	
02NE88\$B039	8/22/2002	ÇS	so	AK102	Diesel Range Organics (C10-C25)	ND	MG/KG	11	5	1	
02NE88SB039	8/22/2002	CS	so	AK103	Residual Range Organics	ND	MG/KG	110	4.7	1	
02NE88SB039	8/22/2002	CS	so	E160.3M	Total Solids	91.6	PERCENT			1	
02NE88SB039	8/22/2002	cs	so	SIM	Acenaphthene	ND	MG/KG	.0055	.00023	1	
02NE88SB039	8/22/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	1	
02NE88SB039	8/22/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0055	.00021	1	<u> </u>
02NE88SB039	8/22/2002	ČS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0055	.00015	1	
	8/22/2002	ÇS	so	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	
02NE88SB039 02NE88SB039	8/22/2002	CS	so	SIM	Benzo(b)fluoranthene	.00056	MG/KG	.0055	.00016	1	VJ
	8/22/2002	CS CS	so	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0055	.00011	1	l
02NE88SB039		CS CS	so	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	i
02NE88SB039	8/22/2002 8/22/2002	CS	so	SIM	Chrysene	.00027	MG/KG	.0055	.00017	1 _	VJ
02NE88SB039		CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	1	
02NE88SB039	8/22/2002		SO	SIM	Fluoranthene	.00024	MG/KG	.0055	.00019	1	VJ
02NE88SB039	8/22/2002	CS	SO	SIM	Fluorene	ND	MG/KG	.0055	.00019	1	
02NE88SB039	8/22/2002		SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0055	.00017	1	
02NE88SB039	8/22/2002	CS	SO	SIM	Naphthalene	.00072	MG/KG	.0055	.00023	1	VJ
02NE88SB039	8/22/2002	CS	SO	SIM	Phenanthrene	.00053	MG/KG	,0055	.00017	1	VJ
02NE88SB039	8/22/2002	CS	SO	SIM	Pyrene	.00021	MG/KG	.0055	.00013	1	VJ
02NE88SB039	8/22/2002	CS		SW6020	Chromlum	9.09	MG/KG	0.22	0.03	5	VJ
02NE88SB039	8/22/2002	CS	so	SW6020	Lead	31.4	MG/KG	0.05	0.03	5	
02NE88SB039	8/22/2002	CS	so	SW6020	Zinc	62.9	MG/KG	0.5	0.1	5	
02NE88SB039	8/22/2002	CS	SO		PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB039	8/22/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.22	0.0077	1	
02NE88SB039	8/22/2002	cs	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.11	0.018	1	
02NE88SB039	8/22/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.0067	1	
02NE88SB039	8/22/2002	CS	so	SW8082		ND	MG/KG	0,11	0.0046	1	
02NE88SB039	8/22/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248) PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.009	1	
02NE88SB039	8/22/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254) PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB039	8/22/2002	CS	SO	SW8082	Benzene	ND ND	MG/KG	0.016	0.012	1	
02NE88SB039	8/22/2002	CS	SO	SW8260B		ND ND	MG/KG	0.038	0.011	1	
02NE88SB039	8/22/2002	CS	SO	SW8260B	Ethylbenzene	ND ND	MG/KG	0.038	0.0086	1	
02NE88SB039	8/22/2002	CS	SO_	SW8260B	o-Xylene Toluene	ND	MG/KG	0.038	0.011	1	
02NE88SB039	8/22/2002	CS	SO	SW8260B		ND -	MG/KG	0.038	0.021	1	
02NE88SB039	8/22/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.07	PERCENT	0.05	0.02	1	
02NE88SB039	8/22/2002	CS	so	SW9060	Total Organic Carbon (TOC)	ND	MG/KG	4.1	2.1	1 1	
02NE88SB040	8/22/2002	CS	so	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	11	4.8	 	
02NE88SB040	8/22/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	ND	MG/KG	110	4.5	1	
02NE88SB040	8/22/2002	CS	SO	AK103	Residual Range Organics		PERCENT	110	7.0	1	
02NE88SB040	8/22/2002	CS	SO	E160.3M	Total Solids	95.5		.0053	.00022	1	
02NE88SB040	8/22/2002	CS	so	SIM	Acenaphthene	ND .	MG/KG	.0053	.00022	1	
02NE88SB040	8/22/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0053	.00017	I	



sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB040	8/22/2002	CS	SO	SIM	Anthracene	.0002	MG/KG	.0053	.0002	1	VJ
	8/22/2002	CS	so	SIM	Benzo(a)anthracene	ND	MG/KG	.0053	.00014	1	
02NE88SB040 02NE88SB040	8/22/2002	cs	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0053	.00015	11	
	8/22/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00035	MG/KG	.0053	.00015	1	VJ
02NE88SB040 02NE88SB040	8/22/2002	CS	so	SIM	Benzo(g,h,i)perylene	.00033	MG/KG	.0053	.00011	1	VJ
02NE88SB040	8/22/2002	CS	so	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0053	.00016	1	
	8/22/2002	CS	so	SIM	Chrysene	.0002	MG/KG	.0053	.00016	1	VJ
02NE88SB040 02NE88SB040	8/22/2002	CS	so	SIM	Dibenzo(a,h)anthracene	.00032	MG/KG	.0053	.00019	1	٧J
02NE88SB040	8/22/2002	CS	so	SIM	Fluoranthene	.0007	MG/KG	.0053	.00018	1	٧J
02NE88\$B040	8/22/2002	CS	so	SIM	Fluorene	.0002	MG/KG	.0053	.00018	1	VJ
02NE88SB040	8/22/2002	cs	so	SIM	Indeno(1,2,3-cd)pyrene	.00032	MG/KG	.0053	.00016	1	VJ
02NE88SB040	8/22/2002	CS	so	SIM	Naphthalene	.00031	MG/KG	.0053	.00022	1	VJ
02NE88SB040	8/22/2002	ÇS CS	so	SIM	Phenanthrene	,001	MG/KG	.0053	.00016	1	VJ
02NE88SB040	8/22/2002	CS	so	SIM	Pyrene	.00051	MG/KG	.0053	.00012	1	VJ
	8/22/2002	CS CS	so	SW6020	Chromium	7.88	MG/KG	0.21	0.03	5	
02NE88SB040	8/22/2002	CS	so	SW6020	Lead	32.2	MG/KG	0.05	0.03	5	
02NE88SB040	8/22/2002	CS	SO	SW6020	Zinç	75.2	MG/KG	0.5	0.1	5	
02NE88SB040	8/22/2002 8/22/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.042	1	
02NE88SB040		CS	so	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.21	0.0074	1	
02NE88SB040	8/22/2002	CS	so so	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.017	1	
02NE88\$B040	8/22/2002		SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0,0064	1	
02NE88SB040	8/22/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0044	1	
02NE88SB040	8/22/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0086	1	
02NE88\$B040	8/22/2002	CS			PCB-1260 (Aroclor 1260)	ND -	MG/KG	0.11	0.0049	1	
02NE88SB040	8/22/2002	CS	SO	SW8082		ND	MG/KG	0.015	0.011	1	
02NE88SB040	8/22/2002	CS	SO	SW8260B	Benzene Ethylbenzene	ND	MG/KG	0.037	0.011	1	
02NE88SB040	8/22/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.037	0.0083	1	
02NE88SB040	8/22/2002	CS	\$O	SW8260B	Toluene	ND	MG/KG	0.037	0.011	i	
02NE88SB040	8/22/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.037	0.02	1	
02NE88SB040	8/22/2002	cs	SO	SW8260B	Total Organic Carbon (TOC)	0.04	PERCENT	0.05	0.02	1	٧J
02NE88SB040	8/22/2002	CS	SO SO	SW9060	Gasoline Range Organics (C6-C10)	ND	MG/KG	4	2.2	1	
02NE88SB237	8/22/2002	cs	SO	AK101 AK102	Diesel Range Organics (C10-C25)	ND	MG/KG	11	5	1	
02NE88SB237	8/22/2002	CS			Residual Range Organics	5.6	MG/KG	110	4.7	1	VJ
02NE88SB237	8/22/2002	CS _	SO	AK103	Total Solids	91.4	PERCENT			1	
02NE88SB237	8/22/2002	CS	SO	E160.3M		ND ND	MG/KG	.0055	.00023	1	
02NE88SB237	8/22/2002	CS	so	SIM	Acenaphthene Acenaphthylene	ND	MG/KG	.0055	,00018	1	
02NE88SB237	8/22/2002	CS	SO	SIM		ND	MG/KG	.0055	.00021	1	
02NE88SB237	8/22/2002	CS	SO	SIM	Anthracene	ND ND	MG/KG	.0055	.00015	1	
02NE88SB237	8/22/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0055	.00016	1	·
02NE88SB237	8/22/2002	CS _	so	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	
02NE88SB237	8/22/2002	CS	SO	SIM	Benzo(b)fluoranthene	ND	MG/KG	.0055	.00011	1	
02NE88SB237	8/22/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND ND	MG/KG	.0055	.00017	i	
02NE88SB237	8/22/2002	CS	SO	SIM	Benzo(k)fluoranthene	.00019	MG/KG	.0055	.00017	1	VJ
02NE88SB237	8/22/2002	cs	SO	SIM	Chrysene	,00019 ND	MG/KG	.0055	.00017	1	7
02NE88SB237	8/22/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	l i	
02NE88SB237	8/22/2002	CS	\$O	SIM	Fluoranthene		MG/KG	.0055	.00019	1	
02NE88SB237	8/22/2002	CS	so	SIM	Fluorene	ND	MG/KG	.0055	.00013	1	
02NE88SB237	8/22/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND 00049		.0055	.00017	1	VJ
02NE88SB237	8/22/2002	CS	SO	SIM	Naphthalene	.00048	MG/KG	.0055	.00023	1	ŸĴ
02NE88SB237	8/22/2002	CS	SO	SIM	Phenanthrene	.00056	MG/KG	.0055	.00017	1	
02NE88SB237	8/22/2002	CS	so	SIM	Pyrene	ND	MG/KG	0,22	0.03	5	
02NE88SB237	8/22/2002	CS	SO	SW6020	Chromium	8.11	MG/KG		0.03	5	
02NE88SB237	8/22/2002	CS	so	SW6020	Lead	33.7	MG/KG	0.05	0.03	1. 3	

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sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB237	8/22/2002	CS	so	SW6020	Zinc	69.1	MG/KG	0.5	0.1	5	
02NE88SB237	8/22/2002	ÇS CS	so	SW8082	PCB-1016 (Aroclar 1016)	ND	MG/KG	0.11	0.044	11	
02NE88SB237	8/22/2002	cs	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0077	1	
02NE88SB237	8/22/2002	CS	so	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB237	8/22/2002	ČS .	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
02NE88SB237	8/22/2002	CS	so	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88\$B237	8/22/2002	CS	SO	SW8082	PCB-1254 (Aroclar 1254)	ND	MG/KG	0.11	0.009	1	
02NE88SB237	8/22/2002	CS CS	so	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB237	8/22/2002	ĊŚ	SO	SW8260B	Benzene	ND	MG/KG	0.017	0.012	1	
02NE88SB237	8/22/2002	ĊS .	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.041	0.011	1	
02NE88SB237	8/22/2002	cs	SO	SW8260B	o-Xylene	ND	MG/KG	0.041	0.0086	1	
02NE88SB237	8/22/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.041	0.011	1	
02NE88SB237	8/22/2002	CS .	so	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.041	0.021	1	
02NE88SB237	8/22/2002	CS CS	SO	SW9060	Total Organic Carbon (TOC)	0.09	PERCENT	0.05	0.02	1	
	8/22/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	4.2	2.3	1	
02NE88\$B239		CS CS	so	AK101	Diesel Range Organics (C10-C25)	ND	MG/KG	11	5.1	1	
02NE88SB239	8/22/2002		SO	AK102 AK103	Residual Range Organics	5	MG/KG	110	4,7	1	VJ
02NE88SB239	8/22/2002	CS	SO	E160.3M	Total Solids	90,2	PERCENT	- 110		1	
02NE88SB239	8/22/2002	CS			Acenaphthene	ND	MG/KG	.0056	.00024	1	
02NE88SB239	8/22/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0056	.00018	1	
02NE88SB239	8/22/2002	CS	SO SO	SIM	Anthracene	ND	MG/KG	.0056	.00022	1	
02NE88SB239	8/22/2002	CS				ND ND	MG/KG	.0056	.00015	1 1	
02NE88SB239	8/22/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0056	.00016	i	
02NE88SB239	8/22/2002	CS	SO		Benzo(a)pyrene	ND	MG/KG	.0056	.00016	1	
02NE88SB239	8/22/2002	CS	SO	SIM	Benzo(b)fluoranthene	ND	MG/KG	.0056	.00012	i	
02NE88SB239	8/22/2002	CS	so	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0056	.00012	1	
02NE88SB239	8/22/2002	cs	so	SIM	Benzo(k)fluoranthene	ND ND	MG/KG	.0056	.00017	1	
02NE88SB239	8/22/2002	CS	so	SIM	Chrysene			.0056	.00017	1	
02NE88SB239	8/22/2002	CS	\$O	SIM	Dibenzo(a,h)anthracene	ND_	MG/KG MG/KG	.0056	.00019	1	
02NE88SB239	8/22/2002	CS	so	SIM	Fluoranthene	ND		.0056	.00019	1	
02NE88SB239	8/22/2002	CS	SO	SIM	Fluorene	ND	MG/KG		.00019	1	
02NE88SB239	8/22/2002	CS	so	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0056	.00017	1	VJ
02NE88SB239	8/22/2002	CS	so	SIM	Naphthalene	.00046	MG/KG	.0056	.00024	1	
02NE88SB239	8/22/2002	cs	so	SIM	Phenanthrene	.00048	MG/KG	.0056			
02NE88SB239	8/22/2002	CS	so	SIM	Pyrene	.00015	MG/KG	.0056	.00013	5	
02NE88SB239	8/22/2002	CS	SO	SW6020	Chromium	7.71	MG/KG	0.22	0.03	5	
02NE88SB239	8/22/2002	CS	SO	SW6020	Lead	31.2	MG/KG	0.06		5	
02NE88SB239	8/22/2002	CS	SO	SW6020	Zinc	57	MG/KG	0.6	0.1	1	
02NE88SB239	8/22/2002	CS	\$O	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.045	1	
02NE88SB239	8/22/2002	CS	so	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0078	1	
02NE88SB239	8/22/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018		
02NE88SB239	8/22/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0068	1 1	
02NE88SB239	8/22/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0047	1	
02NE88SB239	8/22/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0091	1	
02NE88SB239	8/22/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB239	8/22/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.019	0.012	1	
02NE88SB239	8/22/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.046	0.011	1	
02NE88SB239	8/22/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.046	0.0088	1	
02NE88SB239	8/22/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.046	0.011	1	
02NE88SB239	8/22/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.046	0.021	1	
02NE88SB239	8/22/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.08	PERCENT	0.05	0.02	1 1	
32,12,000200	02NE865B239 8/22/2002 03 05 SH0000 Analytical Results-Trip Blanks and Equipment Blanks 2002										
02NE88TB001	8/14/2002	cs	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	5.1	2.1	1	



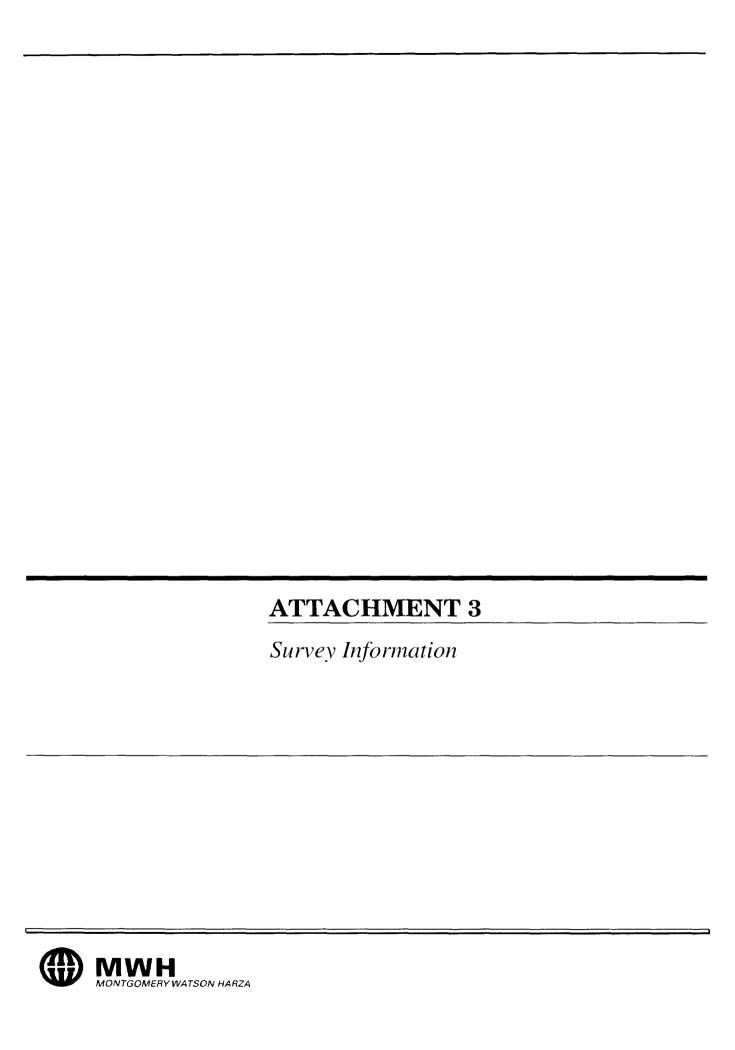


sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valld_flag
02NE88TB001	8/14/2002	CS	SO	SW8260B	Benzene	ND	MG/KG_	0.02	0.011	1	
02NE88TB001	8/14/2002	CS	so	SW8260B	Ethylbenzene	ND	MG/KG	0.05	0.0098	1	
02NE88TB001	8/14/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.05	0.0079	1	
02NE88TB001	8/14/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.05	0.0098	11	
02NE88TB001	8/14/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.05	0.019	1	
02NE88TB002	8/17/2002	CS	w	AK101	Gasoline Range Organics (C6-C10)	ND	MG/L	.05	.02	1	
02NE88TB002	8/17/2002	CS	W	RSK175	Ethane	ND	MG/L	.0005	.0005	1	
02NE88TB002	8/17/2002	CS	W	RSK175	Ethene	ND	MG/L	.0015	.0013	1	
02NE88TB002	8/17/2002	CS	W	RSK175	Methane	ND	MG/L	.0005	.0003	1	
02NE88TB002	8/17/2002	CS	W	SW8260B	Benzene	ND	MG/L	.0005	.00011	1	
02NE88TB002	8/17/2002	CS	W	SW8260B	Ethylbenzene	ND	MG/L	.0005	.00013	1	
02NE88TB002	8/17/2002	CS	W	SW8260B	o-Xylene	ND	MG/L	.0005	.000079	1	
02NE88TB002	8/17/2002	ČS	W	SW8260B	Toluene	.00015	MG/L	.0005	.000098	1	VJ
02NE88TB002	8/17/2002	CS CS	W	SW8260B	Xylene, Isomers m & p	ND	MG/L	.0005	.00022	1	
02NE88TB003	8/19/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	ND	MG/L	.05	.02	1	
	8/19/2002	CS	w	SW8260B	Benzene	ND	MG/L	.0005	.00011	1	
02NE88TB003 02NE88TB003	8/19/2002	CS	W	SW8260B	Ethylbenzene	ND	MG/L	.0005	.00013	1	
02NE881B003 02NE88TB003	8/19/2002 8/19/2002	CS	W	SW8260B	o-Xylene	ND	MG/L	.0005	.000079	1	
			W	SW8260B	Toluene	.00013	MG/L	.0005	.000098	1	VB
02NE88TB003	8/19/2002	CS				ND	MG/L	.0005	.00022	1	
02NE88TB003	8/19/2002	CS	W	SW8260B	Xylene, Isomers m & p	ND	MG/KG	5.1	2.1	1	
02NE88TB005	8/18/2002	cs	so	AK101	Gasoline Range Organics (C6-C10)			0.02	0.011	1	
02NE88TB005	8/18/2002	CS	SO	SW8260B	Benzene	ND	MG/KG			1	
02NE88TB005	8/18/2002	CS	SO ·	SW8260B	Ethylbenzene	ND	MG/KG	0.05	0.0098	1	
02NE88TB005	8/18/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.05	0.0079		
02NE88TB005	8/18/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.05	0.0098	1 .	
02NE88TB005	8/18/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.05	0.019	11	
02NE88TB006	8/19/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	ND	MG/L	.05	.02	1	
02NE88TB006	8/19/2002	CS	W	SW8260B	Benzene	ND	MG/L	.0005	.00011	1	
02NE88TB006	8/19/2002	CS	W	SW8260B	Ethylbenzene	ND	MG/L	.0005	.00013	1	
02NE88TB006	8/19/2002	CS	W	SW8260B	o-Xylene	ND	MG/L	.0005	.000079	1	
02NE88TB006	8/19/2002	CS	W	SW8260B	Toluene	.00011	MG/L	.0005	.000098	11	VJ
02NE88TB006	8/19/2002	CS	W	SW8260B	Xylene, Isomers m & p	ND	MG/L	.0005	.00022	1	
02NE88TB007	8/21/2002	CS	so	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	5,1	2.1	1	
02NE88TB007	8/21/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.02	0.011	1	
02NE88TB007	8/21/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.05	0.0098	1	
02NE88TB007	8/21/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.05	0.0079	1 1	
02NE88TB007	8/21/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.05	0.0098	1	
02NE88TB007	8/21/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.05	0.019	1	
02NE88EB001	8/14/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	ND	MG/L	.05	.02	1	
02NE88EB001	8/14/2002	CS -	W	AK102	Diesel Range Organics (C10-C25)	ND	MG/L	.1	.042	. 1	
02NE88EB001	8/14/2002	ÇS CS	w	AK103	Residual Range Organics	.081	MG/L	.2	.073	1	٧J
02NE88EB001	8/14/2002	CS	w	SW8260B	Benzene	.00021	MG/L	.0005	.00011	1	VJ
		CS CS	W	SW8260B	Ethylbenzene	ND	MG/L	.0005	.00013	1	
02NE88EB001	8/14/2002		W	SW8260B	o-Xylene	.00009	MG/L	.0005	.000079	1	VJ
02NE88EB001	8/14/2002	CS			Toluene	.00045	MG/L	.0005	.000078	1	VB
02NE88EB001	8/14/2002	CS	W	SW8260B		.00045	MG/L	.0005	.00030	1	VJ
02NE88EB001	8/14/2002	ÇS	W	SW8260B	Xylene, Isomers m & p	ND	MG/L	.05	.02	1	
02NE88EB002	8/17/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	ND ND	MG/L MG/L	.11	.043	1	
02NE88EB002	8/17/2002	CS	W	AK102	Diesel Range Organics (C10-C25)				.075	1	· · · · · · · · · · · · · · · · · · ·
02NE88EB002	8/17/2002	CS	W	AK103	Residual Range Organics	ND	MG/L	.21	.00011	1	
02NE88EB002	8/17/2002	CS	W	SW8260B	Benzene	ND	MG/L	.0005		1	-
02NE88EB002	8/17/2002	CS	W	SW8260B	Ethylbenzene	ND	MG/L	.0005	.00013		
02NE88EB002	8/17/2002	CS	W	SW8260B	o-Xylene	ND	MG/L	.0005	.000079	1	

Northeast Cape Phase III Remedial Investigation 2002 Analytical Results

CRINERSEEDOZ 817/2002 CS W SW8260B Toluene .00013 MiG/L .0005 .000098 1	valid_flag	dilution	Detection Limit	Reporting Limit	units	Result	analyte	Method	matrix	Sample Type	Date Collected	sample
CRIEGEBEDO3 SP18/2002 CS W AK101 Gasoline Range Organics (C6-C10) ND MG/L .05 .02 1	VB					.00013	Toluene	SW8260B	W	CS	8/17/2002	02NE88EB002
ONLEGISTED ONL		1						SW8260B	W	CS	8/17/2002	02NE88EB002
ONLEGREBOOS AFRIZOD2 CS W AKTO3 Residual Pange Organics ND MG/L 2 0.73 1		1		.05			Gasoline Range Organics (C6-C10)	AK101	W	CS	8/18/2002	02NE88EB003
ONEBBEB003 3/18/2002 CS W SW8260B Benzane ND MG/L 0,0005 0,00011 1		<u> </u>					Diesel Range Organics (C10-C25)	AK102	W	CS	8/18/2002	02NE88EB003
CANLEGREBOOS ST18/2002 CS W SW8280B Ethylbenzene ND MG/L .0005 .00013 1							Residual Range Organics	AK103	W	CS	8/18/2002	02NE88EB003
ONLEGREDOUS 8718/2002 CS W SW8260B o-Xylene .00008 MG/L .0005 .000079 1 ONLEGREDOUS 8/18/2002 CS W SW8260B Toluene .00013 MG/L .0005 .000028 1 ONLEGREDOUS 8/18/2002 CS W SW8260B Xylene, loseners m 8 p ND MG/L .0005 .00022 1 QNESBEB004 8/19/2002 CS W AK101 Gasoline Range Organics (C8-C10) ND MG/L .05 .02 1 QNEBSEB004 8/19/2002 CS W AK101 Besclair Range Organics (C10-C25) ND MG/L .1 .042 1 QNESBEB004 8/19/2002 CS W AK102 Diesel Range Organics (C10-C25) ND MG/L .1 .042 1 QNESBEB004 8/19/2002 CS W SW8260B Benzene ND MG/L .0005 .00011 1 QNESBEB004 8/19/2002 <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>Benzene</td> <td>SW8260B</td> <td>W</td> <td>CS</td> <td>8/18/2002</td> <td>02NE88EB003</td>		1					Benzene	SW8260B	W	CS	8/18/2002	02NE88EB003
ORNEBSEB003 3/18/2002 CS W SW8260B Toluene .00013 MG/L .0005 .000098 1		1							W		8/18/2002	02NE88EB003
ORNEB8EB003 8/18/2002 CS W SW8260B Xylene, Isomers m & p ND MG/L .0005 .00022 1 02NE88EB004 8/19/2002 CS W AK101 Gasoline Range Organics (C6-C10) ND MG/L .05 .02 1 02NE88EB004 8/19/2002 CS W AK103 Residual Range Organics ND MG/L .2 .073 1 02NE88EB004 8/19/2002 CS W AK103 Residual Range Organics ND MG/L .2 .073 1 02NE88EB004 8/19/2002 CS W SW8260B Benzene ND MG/L .0005 .00011 1 02NE88EB004 8/19/2002 CS W SW8260B E-Tytene ND MG/L .0005 .00011 1 02NE88EB004 8/19/2002 CS W SW8260B Toluene .00013 MG/L .0005 .000098 1 02NE88EB004 8/19/2002 CS <td>VJ</td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>SW8260B</td> <td>W</td> <td>CS</td> <td>8/18/2002</td> <td>02NE88EB003</td>	VJ	· · · · · · · · · · · · · · · · · · ·						SW8260B	W	CS	8/18/2002	02NE88EB003
C2NE88EB004 8/19/2002 CS W AK101 Gasoline Range Organics (C6-C10) ND MG/L .05 .02 1 C2NE88EB004 8/19/2002 CS W AK102 Diesel Range Organics (C10-C25) ND MG/L .1 .042 1 C2NE88EB004 8/19/2002 CS W AK103 Residual Range Organics ND MG/L .2 .073 1 Q2NE88EB004 8/19/2002 CS W SW8260B Benzene ND MG/L .0005 .00011 1 Q2NE88EB004 8/19/2002 CS W SW8260B Ethylbenzene ND MG/L .0005 .00013 1 Q2NE88EB004 8/19/2002 CS W SW8260B Toluene .00013 MG/L .0005 .000079 1 Q2NE88EB004 8/19/2002 CS W SW8260B Toluene .00013 MG/L .0005 .000099 1 Q2NE88EB004 8/19/2002 CS </td <td>VB</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>SW8260B</td> <td>W</td> <td>CS</td> <td>8/18/2002</td> <td>02NE88EB003</td>	VB							SW8260B	W	CS	8/18/2002	02NE88EB003
O2NE88EB004 8/19/2002 CS W AK102 Diesel Range Organics (C10-C25) ND MG/L .1 .042 1 02NE88EB004 8/19/2002 CS W AK103 Residual Range Organics ND MG/L .2 .073 1 02NE88EB004 8/19/2002 CS W SW8260B Benzene ND MG/L .0005 .00011 1 02NE88EB004 8/19/2002 CS W SW8260B Ethylbenzene ND MG/L .0005 .00013 1 02NE88EB004 8/19/2002 CS W SW8260B -Xylene ND MG/L .0005 .000079 1 02NE88EB004 8/19/2002 CS W SW8260B Toluene .00013 MG/L .0005 .000079 1 02NE88EB005 8/19/2002 CS W SW8260B Toluene .00013 MG/L .0005 .000022 1 02NE88EB005 8/20/2002 CS W		1					Xylene, Isomers m & p	SW8260B	W	CS	8/18/2002	02NE88EB003
OZNESBEBO04 8/19/2002 CS W AK103 Residual Range Organics ND MG/L .2 .073 1 02NESBEB004 8/19/2002 CS W SW8260B Benzene ND MG/L .0005 .00011 1 02NESBEB004 8/19/2002 CS W SW8260B Ethybenzene ND MG/L .0005 .00013 1 02NESBEB004 8/19/2002 CS W SW8260B Ethybenzene ND MG/L .0005 .000079 1 02NESBEB004 8/19/2002 CS W SW8260B Toluene .00013 MG/L .0005 .000079 1 02NESBEB004 8/19/2002 CS W SW8260B Toluene .00013 MG/L .0005 .000079 1 02NESBEB004 8/19/2002 CS W SW8260B Toluene .00013 MG/L .0005 .000079 1 02NESBEB005 8/20/2002 CS W		1					Gasoline Range Organics (C6-C10)	AK101	W	CS	8/19/2002	02NE88EB004
O2NE88EB004 8/19/2002 CS W SW8260B Benzene ND MG/L .0005 .00011 1		<u> </u>					Diesel Range Organics (C10-C25)	AK102	W	CS	8/19/2002	02NE88EB004
02NEB8EB004 8/19/2002 CS W SW8260B Ethylbenzene ND MG/L .0005 .00013 1 02NEB8EB004 8/19/2002 CS W SW8260B O-Xylene ND MG/L .0005 .000079 1 02NE88EB004 8/19/2002 CS W SW8260B Toluene .00013 MG/L .0005 .000098 1 02NE88EB004 8/19/2002 CS W SW8260B Xylene, Isomers m & p ND MG/L .0005 .000092 1 02NE88EB005 8/20/2002 CS W AX101 Gasoline Range Organics (C6-C10) ND MG/L .05 .002 1 02NE88EB005 8/20/2002 CS W AX102 Diesel Range Organics (C10-C25) ND MG/L .11 .043 1 02NE88EB005 8/20/2002 CS W AX103 Residual Range Organics ND MG/L .21 .074 1 02NE88EB005 8/20/2002		<u> </u>					Residual Range Organics	AK103	W		8/19/2002	02NE88EB004
O2NE88EB004 8/19/2002 CS W SW8280B o-Xylene ND MG/L .0005 .000079 1 O2NE88EB004 8/19/2002 CS W SW8260B Toluene .00013 MG/L .0005 .000098 1 O2NE88EB004 8/19/2002 CS W SW8260B Xylene, Isomers m & p ND MG/L .0005 .000022 1 O2NE88EB005 8/20/2002 CS W AK101 Gasoline Range Organics (C6-C10) ND MG/L .05 .02 1 O2NE88EB005 8/20/2002 CS W AK102 Diesel Range Organics (C10-C25) ND MG/L .01 .043 1 O2NE88EB005 8/20/2002 CS W AK103 Residual Range Organics ND MG/L .01 .074 1 O2NE88EB005 8/20/2002 CS W SW8280B Benzene ND MG/L .0005 .00011 1 O2NE88EB005 8/20/2002		<u> </u>					Benzene	SW8260B	W	CS	8/19/2002	02NE88EB004
O2NE88EB004 8/19/2002 CS W SW8260B Toluene .00013 MG/L .0005 .000098 1 O2NE88EB004 8/19/2002 CS W SW8260B Xylene, Isomers m & p ND MG/L .0005 .00022 1 O2NE88EB005 8/20/2002 CS W AK101 Gasoline Range Organics (C6-C10) ND MG/L .05 .02 1 O2NE88EB005 8/20/2002 CS W AK102 Dissel Range Organics (C10-C25) ND MG/L .11 .043 1 O2NE88EB005 8/20/2002 CS W AK103 Residual Range Organics ND MG/L .21 .074 1 O2NE88EB005 8/20/2002 CS W SW8260B Benzene ND MG/L .0005 .00011 1 O2NE88EB005 8/20/2002 CS W SW8260B Ethylbenzene ND MG/L .0005 .00013 1 O2NE88EB005 8/20/2002	<u> </u>						Ethylbenzene	SW8260B	W	CS	8/19/2002	02NE88EB004
O2NE88EB004 8/19/2002 CS W SW8260B Xylene, Isomers m & p ND MG/L .0005 .00022 1 02NE88EB005 8/20/2002 CS W AK101 Gasoline Range Organics (C6-C10) ND MG/L .05 .02 1 02NE88EB005 8/20/2002 CS W AK102 Diesel Range Organics (C6-C10) ND MG/L .11 .043 1 02NE88EB005 8/20/2002 CS W AK103 Residual Range Organics (C10-C25) ND MG/L .11 .043 1 02NE88EB005 8/20/2002 CS W SW8260B Benzene ND MG/L .001 .074 1 02NE88EB005 8/20/2002 CS W SW8260B Ethylbenzene ND MG/L .0005 .00013 1 02NE88EB005 8/20/2002 CS W SW8260B Toluene .0015 MG/L .0005 .000099 1 02NE88EB005 8/20/2002		11				ND	o-Xylene	SW8260B	W	CS	8/19/2002	02NE88EB004
C2NE88EB005 8/20/2002 CS W AK101 Gasoline Range Organics (C6-C10) ND MG/L .05 .02 1	VB	1				.00013	Toluene	SW8260B	W	CS	8/19/2002	02NE88EB004
OZNE88EB005 8/20/2002 CS W AK102 Diesel Range Organics (C10-C25) ND MG/L .11 .043 1 02NE88EB005 8/20/2002 CS W AK103 Residual Range Organics ND MG/L .21 .074 1 02NE88EB005 8/20/2002 CS W SW8260B Benzene ND MG/L .0005 .00011 1 02NE88EB005 8/20/2002 CS W SW8260B Ethylbenzene ND MG/L .0005 .00013 1 02NE88EB005 8/20/2002 CS W SW8260B Toluene ND MG/L .0005 .000079 1 02NE88EB005 8/20/2002 CS W SW8260B Toluene .00015 MG/L .0005 .000098 1 02NE88EB005 8/20/2002 CS W SW8260B Xylene, Isomers m & p ND MG/L .0005 .00022 1 Key: CS Corps sample		1				ND	Xylene, Isomers m & p	SW8260B	W	CS	8/19/2002	02NE88EB004
02NE88EB005 8/20/2002 CS W AK102 Diesel Range Organics (C10-C25) ND MG/L .11 .043 1 02NE88EB005 8/20/2002 CS W AK103 Residual Range Organics ND MG/L .21 .074 1 02NE88EB005 8/20/2002 CS W SW8260B Benzene ND MG/L .0005 .00011 1 02NE88EB005 8/20/2002 CS W SW8260B Ethylbenzene ND MG/L .0005 .00013 1 02NE88EB005 8/20/2002 CS W SW8260B Toluene .0015 MG/L .0005 .000079 1 02NE88EB005 8/20/2002 CS W SW8260B Toluene .00015 MG/L .0005 .00098 1 02NE88EB005 8/20/2002 CS W SW8260B Xylene, Isomers m & p ND MG/L .0005 .00092 1 CS- Corps sample SWR260B						ND	Gasoline Range Organics (C6-C10)	AK101	W	CS	8/20/2002	02NE88EB005
Separation		<u> </u>			MG/L	ND	Diesel Range Organics (C10-C25)	AK102	W	CS	8/20/2002	02NE88EB005
02NE88EB005 8/20/2002 CS W SW8260B Benzene ND MG/L .0005 .00011 1 02NE88EB005 8/20/2002 ÇS W SW8260B Ethylbenzene ND MG/L .0005 .00013 1 02NE88EB005 8/20/2002 ÇS W SW8260B O-Xylene ND MG/L .0005 .000079 1 02NE88EB005 8/20/2002 CS W SW8260B Toluene .00015 MG/L .0005 .00098 1 02NE88EB005 8/20/2002 CS W SW8260B Xylene, Isomers m & p ND MG/L .0005 .00098 1 CNE88EB005 8/20/2002 CS W SW8260B Xylene, Isomers m & p ND MG/L .0005 .00022 1 Key:	ļ., <u>-</u>	1				ND	Residual Range Organics	AK103	W	CS	8/20/2002	02NE88EB005
Q2NE88EB005 8/20/2002 CS W SW8260B Ethylbenzene ND MG/L .0005 .00013 1 Q2NE88EB005 8/20/2002 CS W SW8260B O-Xylene ND MG/L .0005 .000079 1 Q2NE88EB005 8/20/2002 CS W SW8260B Toluene .00015 MG/L .0005 .000098 1 Q2NE88EB005 8/20/2002 CS W SW8260B Xylene, Isomers m & p ND MG/L .0005 .00022 1 Key: CS- Corps sample MG/KG-milligrams per kilogram MG/L-milligrams per kilogram ND not detected ND		11		.0005	MG/L	ND	Benzene	SW8260B	W		8/20/2002	02NE88EB005
O2NE88EB005 8/20/2002 CS W SW8260B Toluene .00015 MG/L .0005 .000098 1 02NE88EB005 8/20/2002 CS W SW8260B Xylene, Isomers m & p ND MG/L .0005 .00022 1 Key: CS- Corps sample MG/Kg- milligrams per kilogram MG/L- milligrams per liter ND not detected <	<u> </u>	1	.00013	.0005	MG/L	ND	Ethylbenzene	SW8260B	W	CS	8/20/2002	
02NE88EB005 8/20/2002 CS W SW8260B Toluene .00015 MG/L .0005 .000098 1 02NE88EB005 8/20/2002 CS W SW8260B Xylene, Isomers m & p ND MG/L .0005 .00022 1 Key: CS- Corps sample MG/KG- milligrams per kilogram MG/L- milligrams per liter ND not detected		1	.000079	.0005	MG/L	ND	o-Xylene	SW8260B	W	CS	8/20/2002	02NE88EB005
O2NE88EB005 8/20/2002 CS W SW8260B Xylene, Isomers m & p ND MG/L .0005 .00022 1 Key:	VB	1	.000098	.0005	MG/L	.00015	Toluene	SW8260B	w			
Key:		1	.00022	.0005	MG/L	ND	Xylene, Isomers m & p	\$W8260B	W			
CS- Corps sample MG/KG- milligrams per kilogram MG/L- milligrams per liter ND not detected								i				
CS- Corps sample MG/KG- milligrams per kilogram MG/L- milligrams per liter ND not detected								,	"		Kev:	
MG/KG- milligrams per kilogram MG/L- milligrams per liter ND not detected												
MG/L- milligrams per liter ND not detected									gram			
ND not detected												
									ing			
SO-Isoil												
VB- analyte detected in the blank and the sample								and the sample	n the blank a	analyte detected in	VB-	
VHB- biased high												
VLB-biased low												i
VJ- estimated value						*****						







SEP 2 5 2002

MULLIKIN SURVEYS

Physical Address: 381 E. Bonanza Ave. Mail: P.O. Box 790, Homer, AK 99603-0790

Ph. & Fax: (907) 235-8975 E-mail: mullikin@xyz.neMONTGOMERY WATSON HARZA

September 19, 2002

Attention: Bonnie McLean MWH Americas, Inc. 4100 Spenard Road Anchorage, AK 99517

Re: Northeast Cape 2002

Dear Bonnie:

Please find enclosed an AutoCAD version 200i drawing file of Northeast Cape 2002.

"Ptsground" layer contains the ground elevation at monitor wells (#737 to 746). "Ptsmeas-2002" depicts "shots" for top of PVC pipe and bore hole locations. Also included on disk is a comma delineated point file. Small and large paper plot enclosed.

The preliminary drawing also shows the two rebar and aluminum caps set on site this year, points 3201 and 3202, and several building corners located (the garage and building 107).

Thank you for selecting Mullikin Surveys for this project.

Donald E. Mullikin, P.L.S.

DEM:jvm

C:\Documents and Settings\\dministrator\My Documents\Montgomery-Watson\NorthEast Cape\NECape2002.wpd

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2002.txt
737,98080.4499,96392.8914,82.29,ground 88-1 738,98257.8812,96455.0726,71.18,ground 88-2 739,98169.9401,96458.3585,77.75,ground 88-3 740,98365.8078,96331.1320,68.63,ground 88-4
 741,98292.1088,96216.7210,68.37, ground 88-5
 742,98271.8042,96140.1494,69.13, ground 88-6
742,98271.8042,96140.1494,69.13,ground 88-6
743,98271.2457,96033.1581,72.83,ground 88-7
744,98185.9420,96083.4849,73.76,ground 88-8mw
745,98044.5023,96154.1887,81.79,ground 88-9
746,97970.2989,96293.0099,86.86,ground rb rp to 88-10
3110,98340.6943,96869.6889,72.84,fa12057
3201,98372.5080,96436.6413,67.29,SET 2" AL. CAP
3202,98447.3543,95922.5384,72.65,SET 2" AL. CAP
3206,98376.2296,96448.9517,66.14,BM ROCK
3208,98228.2467,96070.5355,71.93,88-18
3209,98185.5809,96079.5093,73.46,88-8mw
3212.98271.8042.96138.1732.68.83.88-6
  3212,98271.8042,96138.1732,68.83,88-6
  3213,98270.0480,96171.5812,69.65,88-17
  3214,98292.8156,96213.3614,67.87,88-5
  3216,98320.2355,96241.8412,66.84,88-11
3217,98292.8032,96251.2105,67.11,88-14
 3218,98224.4465,96253.7354,71.21,88-15
3219,98182.7094,96260.0342,72.95,88-16
3220,98044.5023,96150.7453,80.99,88-9
3222,98365.8078,96328.0254,68.23,88-4
3224,98303.2553,96341.1182,69.51,88-13
3225,98329.8776,96398.0750,69.71,88-12
  3227,98329.8776,96398.0750,69.71,88-12
3227,98258.6814,96450.2677,70.88,88-2
3228,98170.3266,96455.0710,77.35,88-3
3230,98080.6147,96389.9459,81.89,88-1
3232,97685.3823,96233.7486,98.14,22-2
3233,97683.0309,96206.4925,97.75,22-1
3234,97707.5250,96277.2986,95.15,se bldg cor
  3234,97707.5250,96277.2986,95.15,5e bldg cor

3235,97772.6025,96268.1874,94.13,ne bldg cor

3236,97909.4993,96375.6140,89.46,5e bldg cor

3237,97980.2479,96365.9765,89.89,ne bldg cor

3238,97973.9268,96320.5867,89.46,nw bldg cor

3239,98271.2457,96029.4259,72.33,88-7

3241,98250.4944,96035.9200,73.99,bldg107 ne

3243,98213.0639,96337.5979,74.11,garage ne
   3244,98139.2229,96375.9385,75.12,garage se
    3501,99641.3824,97547.3059,45.82,fsp708
3506,97970.3921,96289.2790,86.86,rb rp to 88-10
```

Loc ID							
	East North		"Elevatio	"Elevation, ft. msl"		Wate	r level
			Ground	PVC	bgs	bt pvc	elevation
MW 88-1	98080.45	96392.89	82.29	81.89	-0.4	0	81.89
MW 88-2	98257.88	96455.07	71.18	70.88	-0.3	9.71	61.17
MW 88-3	98169.94	96458.36	77.75	77.35	-0.4	12	65.35
MW 88-4	98365.81	96331.13	68.63	68.23	-0.4	14.76	53.47
MW 88-5	98292.11	96216.72	68.37	67.87	-0.5	10.41	57.46
MW 88-6	98271.8	96140.15	69.13	68.83	-0.3	9.8	59.03
MW 88-7	98271.25	96033.16	72.83	72.33	-0.5	14.02	58.31
MW 88-8	98185.94	96083.48	73.76	73.46	-0.3	14.6	58.86
MW 88-9	98044.5	96154.19	81.79	80.99	-0.8	20.22	60.77
MW 88-10	97970.3	96293.01	86.86	86.46	-0.4	24.98	61.48
						Est.	Est.
SB 88-11	98320.24	96241.84	66.84		Frozen	12	54.84
SB 88-12	98329.88	96398.08	69.71		Frozen	6	63.71
SB 88-13	98303.26	96341.12	69.51		Frozen	4	65.51
SB 88-14	98292.8	96251.21	67.11			14	53.11
SB 88-15	98224.45	96253.74	71.21			13	58.21
\$B 88-16	98182.71	96260.03	72.95			12	60.95
SB 88-17	98270.05	96171.58	69.65			13	
SB 88-18	98228.25	96070.54	71.93			13	58.93
SB 22-1	97683.03	96206.49	97.75		Refusal	32	65.75
SB 22-2	97685.38	96233.75	98.14		Refusal	36	

Sivuqaq, Inc. FAX TRANSMITTAL

DATE:	March 21, 2002		
то:	Ms. Lisa K. Geist CEPOA-EN-EE-A	FROM:	Morgan Apatiki Liaison
FAX:	(907) 753-2820	FAX;	(907) 985-5426
TEL:	(907) 753-5742	TEL:	(907) 985-5826
cc:	Sivuqaq, Inc. Board	PAGES:	Fourteen (14)

COMMENTS:

Finally, done with my review & comments. I will send the hard copies as of Today.
Please, excuse my typical errors. Thank You!



SIVUQAQ INCORPORATED

P.O. BOX 101 GAMBELL, ALASKA 99742-0101 (907) 985-5826

TO: Lisa K. Geist CEPOA-EN-EE-A

FROM: Morgan L. Apatiki

Liaison

DATE: March 21, 2002

SUBJECT: SRI/GAM. Review & Comments

Dear Ms. Geist

Enclosed, Please, find my Review and Comments on the 2001 Supplemental Remedial Investigation, Gambell, St. Lawrence Island, Alaska. Draft, December 2001.

If you have any further questions, Please, feel free to call me. Thank-You! for your time and efforts, working with us.

Sincerely,

SIVUQAQ INCORPERATED

CC: Sivuqaq, Inc. Board Gambell, Alaska **DOCUMENT:** Gambell Draft 2001 Supplemental Remedial Investigation Report

REVIEWER: Morgan Apatiki, Community Liaison (March 21, 2002)

DATE: March 21, 2002

RESPONSES FROM: U.S. Army Corps of Engineers, Alaska District

Item 1: Section 1.1, Page 1-1

Comment: Data gaps from 1998 RI...

It has been mentioned that in 1998 RI, that some data gaps would be filled. What are those gaps? Have they been identified and characterized? What about those individual sites that were recommended for no further action. Can you specify or indicate their locations? Or have their identifications been specified in section 4.0 Table 4-1, page 4-1.

Response:

It is unclear what data gaps the reviewer is referring to. At the conclusion of the Phase I remedial investigation (1994), the following sites were recommended for no further action (with the exception of eligible hazardous debris removal): Sites 1, 8, 12, 13, 16, 17 and 18. The 1998 Phase II Remedial Investigation Report by Montgomery Watson concluded that no significant environmental risks were exhibited by the contamination at any of the Gambell sites. No remedial responses were recommended except for soil removal at Site 4/Area 4B. However, the report did identify and recommend several Gambell sites for removal of debris (BDDR) and containerized hazardous/toxic waste (ConHTRW) under the DERP-FUDS program. Therefore, all data gaps were resolved at that time. At the conclusion of the Phase II investigation, no further action was recommended for Sites 2, 3 and 4D, except for the eligible hazardous debris removal actions. Site 5 was recommended for no further action following the additional geophysical investigation, and soil/groundwater sampling.

Explain about Site 6, 7, 9, 11, 14, and 15. (e.g.) Several sites were deemed ineligible for the DERP-FUDS program due to lack of identified hazardous debris or contamination.

New information presented in the Strategic Project Implementation Plan (SPIP), Historical Photographic Analysis (TEC Report), and Oil Spill Consultants Final Removal Action Report led to the 2001 Supplemental Remedial Investigation. The information presented in Table 4-1 only refers to sites investigated during this investigation.

The following sites are (will be?) recommended for no further action: include complete list?? Site 8, 16, 24, 25A, 25B, 26, 27, 28.

Item 1: Para 2 – Reports of new information of buried military debris, mapping...

Response: Although buried debris cannot be addressed by the FUDS program, it may be addressed through a cooperative agreement between the Native Village of Gambell and the Department of Defense under the NALEMP program. The Golder Associates report was generated as part of the planning process for the NALEMP cooperative agreement.

The reviewer is correct that the most current aerial photograph (contained in the GIS-Based Historical Time Sequence Analysis) of Gambell dates from 1994. However, the basemaps utilized by Montgomery Watson in the 2001 Supplemental Report do depict the newer housing

units and contain other updated details. Please specify which areas of concern are improperly placed on Figure 1-2 and 3-1.

Item 1: Section 1.1/1.2/1.5.2

Comment: The description of these sections that are listed on the left, seem to have the same wording since the Year 2000. The clean-up project is recommended as contemplative and speculative of the remedial and removal actions.

Response: Comment noted.

Item 2: Section 2,2.2.2 – Subsurface borehole soil sampling was insufficient

Site 25B was located with the assistance of local community members, and based on a recommendation from the Sivuga Roard. The board of the board of the board of the board of the board. recommendation from the Sivuqaq Board. The borehole samples were not intended to and cannot penetrate permafrost conditions.

Item 2: para 2

Comment: Soil borings that were planned to terminate at frozen soils indicated different depths of the frozen soil that were encountered... At which level of frozen layer are you indicating the boreholes that were drilled beyond the frozen soil interface? Etc.

Response: Insert MWH response.

Permafrost levels tend to vary with depth, but are fairly consistent throughout the Village of Gambell. Permafrost levels also vary from year to year, between seasons.

Item 3: Section 1.1 – Groundwater flow/level variation

Comment: The groundwater flow level is high in early spring and in the fall season. The degradation of water level is during the summer season. The water level can be varied and caused by the high tide from south and north currents, especially during the high wind. The water level seems to disappear in late summer and tend to elevate when the fall season arrives. The frozen soil begins to rise to the surface when the temperature falls. The groundwater flow is from the East to West and intersects to the South end of the ponds beyond the end of the Troutman Lake.

In regards to the contamination that is underground in the vicinity of the village of Gambell; The repetition of the elevating water level during the fall and frozen soil during winter and spring can cause the DRO, etc. to rise up and down in the layered section of the drainage basin followed with the stain resulted into the RRO. The results of the rusted or discolored gravel on the soil surface indicates the presence of the chemical or eroding of heavy metal objects underneath that section. Both the water level and frozen soil during the fall can elevate the organic compounds to the surface. The oily substance can always be on top of the water level and on flux of the frozen soil. There are several areas of rusted and orange colored gravel on top of the surface besides the exposing military debris.

Response: Comments noted. We agree that rising and falling permafrost and groundwater levels can cause a "smear" zone over which contamination may be present.

Item 3: Continued Comment:

Local Issues and expressed concerns	Response
Photoionization detector not working well	This device was working properly, field notes document regular calibration of the device.
Sampling procedures do not seem accurate	The field crew followed the approved workplan

Missing drilling rig part	According to the field crew (and field notes), this equipment was in good working order.
Site which are declared highly contaminated	No sites have been declared as highly contaminated.
Environmental Impact Statement caused by military demobilization from 1951 to 1957	We are unaware of such a statement.
Aware of highly contaminated areas identified by URS (1985) and Golder Associates (1994).	Please provide more specifics on these sites. A review of the URS report indicates that no highly contaminated areas were identified.
Aware of DRO/GRO/RRO encountered by construction crew during installation of mains. Reported to be on top of permafrost, eye irritating substance was encountered at Site 16 and 25A.	Observations noted.
Aware of houses and buildings built over and near military buried debris and contamination. Need coordination provided beforehand.	Information is available to the public, and any other stakeholders involved with construction projects at Gambell can access reports at the 4 Information Repositories.
Aware of precaution given by military officers before site demobilization to not go near burial sites.	Comment noted. We are not aware of such a precaution.
Community imperiled regarding the presence of contamination in the vicinity of Gambell, why not included in the National Priority List.	Contamination has been identified above generic state cleanup levels (ADEC Method 2) at Sites 4A, 4B, 6, 7, 12, and 18A. However, the primary contaminants of concern are elevated levels of diesel range organics, and some metals.
Recommendation from community that geophysical surveys and remedial investigation not thorough enough, and proceeded without logic.	Comment noted. The Alaska District has followed the CERCLA process for investigating and remediating hazardous waste sites, and the Alaska Department of Environmental Conservation has been overseeing our efforts.

Item 4: Section 2.2.2.3 – Fuel fingerprinting

Comment: As you may have known and understood, the following soil borings designated for the finger printing, are under and near the buildings inflicted by the military debris and contamination. The locals handling of the petroleum products for many years with small amounts of oil spill reported and stained from the intense fume of the products have been affiliated with the spoilage done by the FUDS activities.

Response: Comment noted. The purpose of the fuel fingerprint analyses was to help determine if non-military sources of contamination were contributing to any detected contaminants. The Corps' responsibility is to evaluate and remediate former military impacts, only. If contamination from several sources is co-mingled or mixed together, a different process must be followed.

Item 5: Section 2.3.1 – Freezing level occurs in mid September, groundwater levels... recommendation from community of Gambell to reconsider assumption that groundwater flow level is at lowest in September.

Comment: As it has been mentioned in the subsequent sections, the freezing level occurs in mid September, followed by the formation of the 4 to 6 inches think frozen soil, from two to six feet

intervals in depth measurement. The Community of Gambell is Recommending the CORPS to Reconsider Evaluation of the FS/RI regarding the statement mentioned in Item 4 and Groundwater Flow Level is at the lowest level and the formation of the frozen soil tends to surface during the Month of September. The spoilage done by the FUDS actions believed to be further down than the sample depth collected by MW's performance. Can you tell me why the groundwater samples were not collected?

Response: Insert MWH response. Groundwater was not encountered in any location, except for soil boring 18A.

Item 6: Section 3.1 – Site 4A and 4B contaminated with oil spills, etc.

Comment: Both Radar Sites, 4A and 4B are considered contaminated with oil spills, etc. caused by the poor handling of fuel products, dumping of waste oil, and other canistered oil substance, according to locals perspective's that worked and familiar with the Military Activities. The local laborers that worked during the MW clean-up activities in 1990's report a smell of intense fumes present on these two sites. It is known to have oil drainage at those two sites.

Response: Comment noted. Soils were removed from Site 4B during the removal actions conducted by Oil Spill Consultants in 1999. Initial confirmation sampling conducted after the soil removal was completed indicated additional contamination remained. Montgomery Watson conducted additional sampling in 2001 to verify Oil Spill's results, and their data also shows some residual petroleum contamination. However, high levels of metals (chromium) were not confirmed. In addition, earlier investigations did not show evidence of contamination downgradient of Site 4.

Item 7: Section 3.2 – Origin of DRO, etc at Site 4B

Comment: The burning of Burning of Site 4B Radar Site, not only caused the Ordnance to explode, it also ignited the diesel and gasoline. The explosion mushroomed like a bomb, after the other viewed from the village of Gambell and local that are close contact with the radar site. And that is where the originated DRO, GRO, and RRO mostly come from. The potable drinking water source has been Noted. The local people use the stream for water, for many years coming down from those contaminated areas. It is recommended that these mentioned, tested for compatibility.

Response: It is unclear where these drainages exist, how intermittent are they, and does the comment include the already investigated former infiltration gallery. Groundwater has already been monitored at base of Sevuokuk Mountain.

Item 8: Section 3.3

Comment: Inconsistencies in Report, Inaccurate Figure 1-2 and 3-1 Response: Please specify in more detail what information is incorrect.

Comment: Boreholes drilled outside of landfills, buried debris, area of contamination. Response: It is impossible to drill exactly over buried sewer /utility line areas. We realize the new housing units are not depicted on the 1994 aerial photo, however they are included on more recent basemaps.

Comment: Site 6 one of the potentially impacted sites....Site 27 under new BSHA housing...Oil spill from AVEC tank farm and ANILCA store tank farms has been affiliated with area Site 25B. Thickness of oil spill substance estimated at 12 inches in depth. Black substance is believed to be a result from military activities...

Response: There is no evidence to suggest that any contamination is present at Site 25B. Contamination must be of military origin to be eligible for investigation and cleanup under the FUDS program.

Item 9: Section 3.4

Comment: This site [Site 7] was one of the two reported to be messiest and littered with waste oil and fuel products...transformer burial sites have not been removed...

Response: No evidence of significant contamination, some fuels have been documented at Site 7, MWH recommends "hot spot" surface soil removal.

Item 10: Section 3.5

Comment: Site 8 also burial site for OE anomaly.

Response: I believe the reviewer is referring to Area D, the beach burial site for small arms ammunition documented by Huntsville/Earth Tech in the ordnance investigation.

Item 11: Section 3.6

Comment: Sites 12, 28 and Area D should be combined and considered contaminated. Plants are harvested in this vicinity by Gambell residents for subsistence purposes. Recommend testing of the plants.

Response: Comment noted. No evidence of significant contamination, some elevated levels of metals documented by MWH, they recommended "hot spot" removal of surface soils. We do not recommend plant sampling, perhaps could be addressed under NALEMP program?

Item 12: Section 3.7

Comment: Stained gravel by Site 16, congeals on warm days, since snow covered most of year, cannot be result of local ATV traffic.

Response: Sampling has not revealed significant contamination.

Item 13: Section 3.8

Comment: Site 18 known as the military camp...recommend conducting air quality testing in this area. Army camp facility pumphouse has not been identified and documented. Explain word "biased" as it relates to subsurface sampling results at borehole 18A.

Response: Air quality testing is not recommended at this time, no evidence of PCBs documented in soils of this site or nearby sites. No reason to believe contamination exists by the pumphouse. Sample collected at borehole 18A was gravel subsurface soil, laboratory qualified the chemical sampling results due to matrix interference.

Item 14: Section 3.9

Comment: Site 24 is one of the other contaminated sites

Response: Comment noted.

Item 15: Section 3.10

Comment: Construction crews encountered DRO, GRO, waste oil and RRO in area of Site 25A, on top of permafrost, believed to have migrated east from area of Sites 16, 18 and 24. Thickness of organic material is about 12 inches in depth. Eye irritating, smell.

Response: Comment noted.

Item 16: Section 3.11

Comment: This drainage basin [Site 25B] is believed to be migrated from military facilities and DRO, etc. disposal at Sites 6 and 27. It is now accumulated with oil-spill incidents described in item 7, para 5 [village store and fuel tank farm].

Response: Analytical results from the 2001 investigation did not indicate petroleum contamination in this area above ADEC cleanup levels. Fuel-fingerprinting analysis were also

inconclusive as the potential source of any residual petroleum. Contamination from non-military sources cannot be addressed by the FUDS program.

Item 17: Section 3.12

Comment: This site [Site 26] was a very active and prominent anomaly.

Response: Comment noted. Site 26 was selected based on review of the Historical Photo

Analysis (TEC Report).

Item 18: Section 3.13

Comment: Site 27 was storage area for drums of diesel, gasoline, and other lubricants. When the military demobilized, some of the diesel was distributed to local U.S. Army, most of the stacked drums were pierced and drained to the ground, leftover free product was buried with some OE anomaly. Empty drums were gathered and loaded onto ship, dumped into the sea about 285 miles southwest of Gambell. Houses are built over these contaminated sites, several rust and orange-colored degraded soil on the surface, and deteriorated exposed drums are present.

Response: Comment noted. A rust colored location in this area was sampled by MW during the 2001 field investigation, at the request of the Sivuqaq Board. The analytical results indicated no evidence of contamination.

Item 19: Section 3.14

Comment: Site 28 is also described in Section 3.6 (Site 12)

Response: Comment noted.

Item 20: Section 4.0

Comment: In regards to the insufficient confirmation samples stated on this Memorandum of Report; It is recommended that the Geophysical Verification Plot and Geophysical Prove-Out be <u>ruled out</u> until the complete Sample Analytical Results are Applicable.

Response: It is unclear what is being referred to with this comment. Concerns with the ordnance investigation and results should be raised during the public review of the EECA, which is anticipated to be available in April. New confirmation samples were collected from areas remediated during 1999 by Oil Spill Consultants to determine residual contamination levels, and address concerns raised by ADEC regarding the original sampling procedures used by Oil Spill Consultants.

NOTE:

Comment: URS surface and subsurface water sampling observations of interest, indicated chemical oxygen demand for site 1, 6 and 28 are particularly interesting...

Response:

NOTE:

Comment: The natural Environmental Habitat was affected and the Archaeological Grave Sites were disturbed by the Military Activities.

Response: Comment noted.

GENERAL:

Comment: The Communities Recommendation for 2001 Supplemental Remedial Investigation is Gambell, St. Lawrence Island, Alaska is considered as rival to the risk assessment work plan that is performed at Northeast Cape. It is RECOMMENDED that a thorough investigation be executed to characterize and identify the Characteristics of PCB Analysis by Physical, Biological and Chemical Testing.

Response: Testing for PCBs has been conducted during previous investigations, no evidence of contamination has been documented.