SUMMARY REPORT
Phase III Remedial Investigation
Northeast Cape, St. Lawrence Island, Alaska

FINAL

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Appendix F Quality Assurance/Quality Control Report
Appendix G USACE Trip Report – Biological Sampling
Appendix H Site Survey
Appendix I Geotechnical Lab Test Report
Appendix J Environment and Natural Resources Institute Taxonomic Report (Plant Report)
Appendix K Estimate of Contaminated Soil Volume

ACRONYMS AND ABBREVIATIONS

AAC	Alaska Administrative Code
ADEC	Alaska Department of Environmental Conservation
ARAR	applicable or relevant and appropriate requirements
AST	aboveground storage tank
BDDR	building demolition and debris removal
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
cfs	cubic feet per second
CON/HTW	containerized hazardous or toxic waste
cy	cubic yards
DERP	Defense Environmental Restoration Program
DRO	diesel range organics
FUDS	Formerly Used Defense Sites
GRO	gasoline range organics
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MOC	Main Operations Complex
MW	monitoring well
PAH	polynuclear aromatic hydrocarbon
PCB	polychlorinated biphenyl
PID	photoionization detector
PL	Public Law
POL	petroleum, oil, and lubricants
RBCL	risk-based cleanup level
RI	Remedial Investigation
RRO	residual range organics
SARA	Superfund Amendments and Reauthorization Act
TOC	total organic carbon
TPH	total petroleum hydrocarbons
USAED	United States Army Engineer District, Alaska
USC	United States Code
VOC	volatile organic compounds
WACS	White Alice Communications System
WP	well point
°F	degrees Fahrenheit

1.0 INTRODUCTION

Pursuant to Contract No. DACA85-98-D-0007, the United States Army Engineer District, Alaska (USAED), contracted with MWH, formerly 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 (DERP) of the United States Department of Defense. This document presents the findings of the Phase III RI performed for selected sites at Northeast Cape.

This Summary Report (Report) consists of a text volume and two volumes of appendices, as described below. The text includes the following four sections.

- Section 1 Introduction – Presents a project description, including a summary of data objectives and regulatory criteria and a brief history of operations and previous investigations at Northeast Cape.
- Section 2 Investigation Objectives, Activities, and Results – Presents brief site descriptions and environmental data collected during the investigation.
- Section 3 Conclusions and Recommendations – Includes a summary of investigation results from 2001 and 2002, and recommendations for future site work.
- Section 4 References – Lists the documents cited in this report.

Volume I of the appendices includes:

- Appendix A Field Notes and Field Note Forms
- Appendix B Sample Plan Checklist, Chain-of-Custody Forms, and Lab Receipts
- Appendix C Field Photographs
- Appendix D Analytical Data Tables

Volume II of the appendices includes:

- Appendix E Chemical Data Quality Review
- Appendix F Quality Assurance/Quality Control Report
- Appendix G USACE Trip Report – Biological Sampling
- Appendix H Site Survey Data
- Appendix I Geotechnical Lab Test Report
- Appendix J Environment and Natural Resources Institute Taxonomic Report (Plant Report)
- Appendix K Estimate of Contaminated Soil Volume

1.1 PROJECT OBJECTIVES AND ACTIVITIES

There were two reasons why the Phase III RI was necessary. The first was that the extent of contamination had not been adequately defined during previous investigations for risk assessments and feasibility studies at some sites. The second was that the White Alice

Communications System (WACS) became eligible for investigation and cleanup under the DERP-Formerly Used Defense Sites (FUDS) program. Although the Northeast Cape WACS had been investigated in the past, additional data is needed to evaluate the installation.

The focus of the 2001-2002 Phase III RI fieldwork was to collect sufficient soil, sediment, surface water, groundwater, fish tissue, and plant tissue samples at selected Northeast Cape installation sites to achieve the following:

- Evaluate the volume, including depth and areal extent, of contaminated soil/sediment at Sites 6, 13, 15, 19, 21, 22, 27, 28, 29, 31, 32, 33, and 34.
- Investigate the presence or absence of contamination at Sites 3, 4, 7, 16, 22, 24, and 26.
- Assess whether Sites 7 and 9 meet Alaska Department of Environmental Conservation (ADEC) criteria for landfill closure.
- Characterize background concentrations of organic and inorganic analytes in gravel soil, tundra soil, sediment, and groundwater.
- Perform hydrologic characterization studies for Sites 3, 4, 6, 7, 9, 28, and the Main Operations Complex (MOC – Sites 13, 15, 19, 20, and 27).
- Evaluate background concentrations of various site contaminants in fish and plants.
- Gather data to be used in the Human Health and Ecological Risk Assessment

At the request of the USAED, alternate cleanup levels or risk-based cleanup levels (RBCLs) are not proposed in this Report.

1.2 REGULATORY SETTING

Work was performed under the DERP-FUDS program. Authority for DERP-FUDS is derived from the following legislation:

- The Comprehensive Environmental Restoration Compensation, and Liability Act of 1980 (CERCLA), Public Law (PL) 96-510, as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986, PL-99-499 (codified as 42 United States Code [USC] 9601-9675)
- Environmental Restoration Program, 10 USC 2701-2707

The Phase III RI for Northeast Cape is being performed following the CERCLA process and procedures. In accordance with CERCLA, the Alaska State Oil and Other Hazardous Substance Pollution Control Regulations (18 Alaska Administrative Code [AAC] 75) that govern the cleanup of contaminated sites in Alaska were identified as Applicable and Relevant or Appropriate Requirements (ARARs) for Northeast Cape. The following regulations and standards are relevant to the characterization and cleanup of the Northeast Cape installation:

- **Soil Cleanup Criteria –** 18 AAC 75 provides four options for determining appropriate soil cleanup criteria. In earlier phases of the investigation, Method 1 criteria were used to support recommendations for no further action where contaminant concentrations in soil fell below the Method 1 ADEC matrix levels for petroleum and Table B2 levels for petroleum constituents. For sites where petroleum concentrations exceeded Method 1 levels, the

cumulative risk was assessed in accordance with Method 2 procedures. If the cumulative risk exceeds the Method 2 criteria, site-specific information and risk assessment data are used to develop cleanup criteria in accordance with the Method 4 procedures for site-specific risk assessment. Once negotiated and accepted, the RBCLs will be used in the Feasibility Study to identify and evaluate remedial options.

- **Groundwater Cleanup Criteria** – Numerical cleanup criteria for groundwater that is a future or future potential drinking water source are identified in 18 AAC 75.345, Table C. Additionally, 18 AAC 75.345 requires that groundwater that is closely hydraulically connected to surface water may not cause a violation of the water quality standards in 18 AAC 70 for surface water or sediment. Additional modifying conditions are identified.

  At this time, ADEC considers the groundwater at Northeast Cape to be a reasonably expected potential future drinking water source.
- **Surface Water and Sediment Cleanup Criteria** – 18 AAC 75.345 identifies the water quality criteria in 18 AAC 70 as applicable when evaluating surface water and sediment cleanup criteria

Cleanup of soil, groundwater, surface water, and sediments is performed in order to protect public health and the environment. Cleanup of these media to established standards is designed to result in the reduction of site contaminants in vegetation, fish, and wildlife.

ADEC is involved in the review and approval of all work plans, site work, and reports for the installation.

1.3 SITE DESCRIPTION

Northeast Cape is approximately 9 miles west of the northeastern cape of St. Lawrence Island, between Kitnagak Bay to the northeast and Kangighsak Point to the northwest. The Kinipaghulghat Mountains bound the southern portion of the site. St. Lawrence Island is located in the Bering Sea near the territorial waters of Russia, approximately 135 air miles southwest of Nome. Northeast Cape is accessible by boat, aircraft, or all terrain vehicle (Figures 1-1 and 1-2).

Northeast Cape was used by the military from the early 1950s until 1975. The surveyed location is 63°19'60" North, 168°58'26" West. Individual sites at Northeast Cape are shown on Figure 1-3. A summary of environmental issues identified in various media at the sites included in the Phase III RI is presented in Table 1-1.

1.4 SITE HISTORY AND PREVIOUS INVESTIGATIONS

Site history and previous investigation information provided in this Report have been summarized from previous Northeast Cape documents. Documents providing results of field investigations, chemical sampling and analyses, and quality assurance/quality control activities performed during previous investigations include:

- Removal Action Report for the Comprehensive Long-Term Environmental Action Navy (CLEAN) Program Northwest Area, White Alice Site, Northeast Cape, St. Lawrence Island, Alaska. URS Corporation. May 1991.

Table 1-1
Northeast Cape FUDS Summary of Environmental Issues at Phase III RI Sites

Site	Source(s) of Contamination	Contamination Confirmed?[1]	Contaminant(s) of Concern[2]	Contaminated Media[3]	Status[4]
3 – Fuel Line Corridor and Pumphouse	Former ASTs, former fuel line,	Yes	DRO, RRO	Soil, groundwater	HHRA, ERA
	ACM, LBP (removed)	No	Asbestos, lead	NA	Removed
4 – Subsistence Fishing and Hunting Camp	Former abandoned vehicles, former ASTs	Yes	DRO, RRO	Soil, groundwater	HHRA, ERA, BD/DR
6 – Cargo Beach Road Drum Field	1,500 former POL drums, battery	Yes	DRO, RRO, metals	Soil, sediment	HHRA, ERA, BD/DR
7 – Cargo Beach Road Landfill	Former drums, batteries; current, exposed landfilled materials	Yes	DRO, RRO, PCBs, metals	Soil	HHRA, ERA, BD/DR
		Yes	RRO, metals	Groundwater	HHRA, ERA
9 – Housing and Operations Landfill	Landfilled materials	Yes	DRO, RRO, metals	Tundra soil, sediment, groundwater	HHRA, ERA, BD/DR
13 – Heat and Electrical Power Building	Former diesel USTs and ASTs, transformers, generators, piping	Yes	DRO, GRO, PAHs	Soil, groundwater	HHRA[5], HSR
	ACM, LBP (scheduled for removal 2003/2004)	Yes	Asbestos, lead	Building and/or surface materials	BD/DR
14 – Emergency Power/Operations Building	Former AST and transformers	Yes	PCBs	Soil	HSR
	ACM, LBP	Yes	Asbestos, lead	Building and/or surface materials	BD/DR
15 – Buried Fuel Line Spill Area	Diesel release from fuel line	Yes	DRO, RRO	Soil, groundwater	HHRA[5] pending confirmation sampling results (Foster Wheeler)
16 – Paint and Dope Storage Building	Abandoned containers, former AST	Yes	None	Soil	HHRA[5]
		Yes	None	Groundwater	HHRA[5]
	ACM, LBP (removed)	No	Asbestos, lead	NA	Removed

Table 1-1
Northeast Cape FUDS Summary of Environmental Issues at Phase III RI Sites
(continued)

Site	Source(s) of Contamination	Contamination Confirmed?[1]	Contaminant(s) of Concern[2]	Contaminated Media[3]	Status[4]
19 – Auto Maintenance and Storage Facilities	Former ASTs, smudge pots, aircraft washing powder Work and storage areas	Yes	DRO, GRO, chromium	Soil, groundwater	HHRA[5], HSR, CON, HTW BD/DR scheduled 2003/2004
	ACM, LBP	Yes	Asbestos, lead	Building and/or surface materials	BD/DR
21 – Wastewater Treatment Facility	Wastewater treatment effluent	Yes	DRO, metals	Tundra soil	HHRA, ERA
	ACM, LBP (scheduled for removal 2003/2004)	Yes	Asbestos, lead	Building and/or surface materials	BD/DR
22 – Water Wells and Water Supply Building	Former diesel engine, UST, AST; cans of asbestos cement,	Yes	RRO	Soil, groundwater	HHRA, ERA
	ACM, LBP (removed)	No	Asbestos, lead	NA	Removed
24 – Receiver Building Area	Buried and scattered drums	Yes	DRO, metals	Soil, groundwater	Removed
	ACM, LBP (removed)	No	Asbestos, lead	NA	Removed
26 – Former Construction Camp Area (Well #4)	Unknown	No	None	None	NFA
27 – Diesel Fuel Pump Island	Diesel release from a former fuel pump and fuel line, buried drums	Yes	DRO, GRO, benzene	Soil, groundwater	HHRA[5]
28 – Drainage Basin	Sites 10-20, 27	Yes	DRO, RRO, PAHs, metals	Soil, sediment, surface water, groundwater	HHRA, ERA
		Yes	PCB, PAHs, metals	Fish, plants	HHRA, ERA
29 – Suqitughneq River	Upgradient sites, especially Site 28	Yes	DRO, metals	Sediment	HHRA, ERA
		Yes	PCBs, metals	Fish	HHRA, ERA

Table 1-1
Northeast Cape FUDS Summary of Environmental Issues at Phase III RI Sites
(continued)

Site	Source(s) of Contamination	Contamination Confirmed?[1]	Contaminant(s) of Concern[2]	Contaminated Media[3]	Status[4]
30 -- Background	None	Not applicable	None	None	Not applicable
31 – White Alice Site	Former transformers, ASTs	Yes	DRO, RRO, PCBs	Soil	HHRA, ERA
	ACM, LBP	Yes	Asbestos, lead	Building and/or surface materials	BD/DR scheduled 2003/2004
32 – Lower Tram Terminal	Former transformers, AST, tram cables	Yes	DRO	Soil	HHRA, ERA
	ACM, LBP (scheduled for removal 2003/2004)	Yes	Asbestos, lead	Building and/or surface materials	BD/DR scheduled 2003/2004
33 – Upper Tram Terminal	Tram cables	Yes	DRO	Soil	HHRA, ERA
	ACM, LBP (scheduled for removal 2003/2004)	Yes	Asbestos, lead	Building and/or surface materials	BD/DR scheduled 2003/2004
34 – Upper Camp	Former drum dump, transformer, AST	Yes	DRO	Soil	HHRA, ERA
	ACM, LBP (scheduled 2003/2004)	Yes	Asbestos, lead	Building and/or surface materials	BD/DR scheduled 2003/2004

Key:

[1]Contamination attributable to a military source in soil, sediment, surface water, or groundwater found at concentrations exceeding Tier I screening criteria. Building materials and surface coatings on building materials are listed if they contain regulated levels of ACM, LBP, or PCBs.
[2]Consists of environmental issues remaining after pre-Phase III RI removal actions (i.e., remaining as of December 31, 2002).
[3]Building materials and surface coatings on building materials are listed if they contain regulated levels of ACM, LBP, or PCBs.
[4]The activities listed in the status column include work performed during 2000 through 2002, and risk assessment activities.
[5]Ecological risk assessment is not planned because the habitat value is considered too low to warrant quantitative ecological risk assessment.

ACM	= asbestos-containing material	LBP	= lead-based paint
AST	= aboveground storage tank	NA	= not applicable
BDDR	= building demolition and debris removal[6]	NFA	= no further action
CON-HTR	= containerized hazardous, toxic waste	PAHs	= polynuclear aromatic hydrocarbons
DRO	= diesel range organics	PCBs	= polychlorinated biphenyls
ERA	= environmental risk assessment[7]	POL	= petroleum, oil, and lubricants
FUDS	= formerly used defense site	RI	= Remedial Investigation
GRO	= gasoline range organics	RRO	= residual range organics
HHRA	= included in human health risk assessment	UST	= underground storage tank
HSR	= Hot-spot removal[8]	VOC	= volatile organic compound

[6]BDDR includes removing debris not associated with building demolition (tanks, drums, etc.) and HSR; no risk assessment activities are planned for contaminants slated for BD/DR
[7]ERA included in environmental risk assessment
[8]HAS; consists of excavating and removing limited areas of stained soil; no risk assessment activities are planned for HSR contaminants.

- Final Report, Site Inspection for the Comprehensive Long-Term Environmental Action Navy (CLEAN) Program Northwest Area, White Alice Site, Northeast Cape, St. Lawrence Island, Alaska. Shannon & Wilson. May 1991.
- Preliminary Assessment Report, Naval Ocean Systems Center Special Areas, Alaska. Naval Energy and Environmental Support Activity. July 1991.
- Revised Site Inspection Final Report, White Alice Site, Northeast Cape, St. Lawrence Island, Alaska. URS Corporation. April 1992.
- Site Inventory, Northeast Cape, St. Lawrence Island, Alaska. Ecology and Environment. December 1992.
- Chemical Data Acquisition Plan, Site Inventory Update, Northeast Cape, St. Lawrence Island, Alaska. Ecology & Environment. February 1993.
- Remedial Investigation, Northeast Cape, St. Lawrence Island, Alaska. Montgomery Watson. January 1995.
- Building Demolition and Debris Removal Technical Memorandum, Northeast Cape, St. Lawrence Island, Alaska. Montgomery Watson. January 10, 1995.
- Remedial Action Alternatives Technical Memorandum, Northeast Cape, St. Lawrence Island, Alaska. Montgomery Watson. November 1995.
- Engineering Evaluation/Cost Analysis, Northeast Cape, Alaska. Montgomery Watson. April 1996.
- St. Lawrence Island Investigation HTW Activities Summary. Montgomery Watson. September 18, 1997.
- Phase II Remedial Investigation, Northeast Cape, St. Lawrence Island, Alaska. Montgomery Watson. August 1999.
- Phase II Remedial Investigation Report Addendum, 1999 Fieldwork, Northeast Cape, Alaska. Montgomery Watson. June 2000.
- Building Composite Sampling and Asbestos Survey Technical Memorandum, Northeast Cape, Alaska. Montgomery Watson. December 2000.
- Work Plan, Phase III Remedial Investigation, Northeast Cape, St. Lawrence Island, Alaska. Final. Montgomery Watson. August 2001.
- Biological Sampling Plan. 2001 Phase III Remedial Investigation. Northeast Cape, St. Lawrence Island, Alaska. Montgomery Watson. August 2001.
- Site Characterization Technical Memorandum. 2002 Phase III Remedial Investigation, Sites 13, 15, 19, 22, and 27. Northeast Cape, St. Lawrence Island, Alaska. MWH. October 2002.

RIs have been conducted at Northeast Cape since 1994. During the Phase I RI, sampling results from the investigated sites were compared to conservative benchmark criteria to identify sites at which further evaluation would be necessary. Several sites were removed from further consideration because contamination was not present, was present at concentrations below benchmark criteria, or site-specific criteria showed no elevated risk to human health or the environment.

Phase II RI work was conducted at Northeast Cape sites to fill data gaps identified during review of Phase I RI work, to support assessment of remedial alternatives, and to support future work at the site. Phase II RI work included posting danger signs, cutting wire, conducting radiological and asbestos surveys, environmental sampling, evaluating gravel borrow areas, removing containerized hazardous or toxic wastes (CON/HTW), identifying polychlorinated biphenyls (PCBs) and lead in paint and building materials, and performing ecological sampling and assessment.

Work performed during the 2000 field season at Northeast Cape included building demolition and debris removal (BD/DR), removal of CON/HTW, and sampling building materials as reported in a Technical Memorandum dated December 2000 (Montgomery Watson, 2000b).

Phase III field work performed in 2001 and 2002 and detailed in this Report included sampling surface water, groundwater, sediment, surface and subsurface soils, vegetation, and fish. Phase III RI work was intended to fill data gaps, confirm previous results, and provide data for updated Human Health and Ecological Risk Assessments.

1.5 ENVIRONMENTAL SETTING

The physical setting at Northeast Cape is described in this section. The information presented was summarized from the detailed site setting information provided in the Phase I RI Report (Montgomery Watson, 1995), Phase II RI Report Addendum (Montgomery Watson, 2000a), and Preliminary Conceptual Site Model, St. Lawrence Island, Alaska Northeast Cape FUDS (USACHPPM, 2001).

1.5.1 Climate

St. Lawrence Island has a cool, moist, subarctic maritime climate with some continental influences during winter, when much of the Bering Sea is capped with pack ice. Winds and fog are common; precipitation occurs approximately 300 days per year as light rain, mist, or snow. Annual snowfall is about 80 inches per year. Annual precipitation is about 16 inches per year, and more than half falls as light rain between June and September. Summer temperatures average between 48 and 34 degrees Fahrenheit (°F), with a record high of 65°F. Winter temperatures range from minus 2°F to 10°F, with an extreme low of -30°F (URS, 1985). Freeze-up normally occurs in October or November, and break-up normally occurs in June.

The wind is generally from a northerly to northeasterly direction from September to June, and southwesterly in July and August. Winds exceeding 10 knots occur 70 percent of the time, and average 20 knots in winter months. The average wind speed is 18 miles per hour (USKH, 1993). Gusts in the Northeast Cape area have been measured as high as 110 miles per hour.

1.5.2 Topography

The site consists mainly of flat coastal plains, which gradually turn into rolling tundra towards the base of the Kinipaghulghat Mountains. The Kinipaghulghat Mountains rise abruptly to a maximum elevation of approximately 1,800 feet above sea level about 2 miles south of the

installation. Most of the installation is at an elevation of 20 to 80 feet above mean sea level. The White Alice area is located in an upland area near the Kinipaghulghat Mountains.

1.5.3 Geology

St. Lawrence Island consists of isolated bedrock highlands of igneous, metamorphic, and older sedimentary rocks surrounded by unconsolidated surficial deposits overlying a relatively shallow erosional bedrock surface. In the immediate installation vicinity, shallow unconsolidated surficial materials overlie quartz monzonitic rocks of the Kinipaghulghat Pluton (Patton and Csejtey, 1980). The Pluton forms the mountainous area south of the installation, which includes Kangukhsam Mountain. Immediately south of the installation, an unnamed drainage in the Kinipaghulghat Pluton has created an erosional valley and alluvial fan of unconsolidated sediments. The primary areas of this investigation are located on this alluvial fan, which progrades north from the mountain front toward the Bering Sea. Granitic bedrock materials are exposed at the coast north of the installation at Kitnagak Bay, suggesting that quartz monzonitic bedrock underlies the unconsolidated materials at a relatively shallow depth on a wave-cut erosional platform.

The unconsolidated alluvial materials exhibit a soil profile in areas that have not been disturbed by man. In general, native soil stratigraphy at the site is characterized by silts near the surface, overlying more sand-dominated soils at depth. The silt may contain varying quantities of clay/sand/gravel, and range from zero to 10 feet in thickness. The silt is dark brown to dark green, and sometimes exhibits a mottled texture. In some areas, the silt exhibits an aqua green or blue color. Dark brown silts are observed in outcrops. The sand at depth contains varying degrees of silt/gravel/cobbles and may vary from 2 to greater than 20 feet thick. These deeper, coarse-grained materials are generally unsorted and are likely to be of glaciofluvial origin. The depth to bedrock at the installation is unknown.

1.5.4 Background Concentrations of Naturally-Occurring Constituents

The presence of naturally occurring inorganics, such as metals, is well documented in soils in Alaska, especially in areas with a volcanic origin such as St. Lawrence Island. Metals such as arsenic, chromium, and lead are present in areas that have had little or no human presence throughout the state. Samples at Northeast Cape collected to characterize background were designated 'Site 30' and are discussed in greater detail in Section 2.1.15. A statistical evaluation of background concentrations at Northeast Cape is currently underway and will be used in the Risk Assessment as well as the Feasibility Study in order to determine the contribution of naturally-occurring inorganic materials at the installation.

1.5.5 Hydrogeology

Because of the relatively remote and undeveloped nature of St. Lawrence Island, there is little data on the regional groundwater regime. The primary aquifer at the Northeast Cape installation is the unconsolidated alluvial material and fractured bedrock that underlies all of the installation, and may transmit large quantities of groundwater periodically or throughout the year.

Select regions of the bedrock, such as the extensive talus field (broken blocks of rock) at the tramway and upper camp extending off of Kinipaghulghat Mountain, are likely capable of transmitting large volumes of groundwater. It is also likely that runoff from the bedrock mountain also permeates into the highly fractured rubble and associated fractures that form the talus along the mountain flank and thereby contributes to the groundwater budget of the overlying glacial deposits. Surface and groundwater drainage from the Kinipaghulghat Mountain may well be an important source of shallow and deeper groundwater to the downgradient sites at the Northeast Cape.

The mountainous area south of the installation provides an ideal recharge area for the unconsolidated materials, providing runoff from rain and snowmelt during the summer months. Based on the topography and geology of the installation, the regional, deep groundwater flow direction is expected to be from the mountainous recharge area south of the installation, flowing north and eventually discharging to the Bering Sea.

The facilities at Northeast Cape apparently used deep groundwater as a water supply. There were four production wells at Sites 22 and 26, designated Wells 1 through 4 (E&E, 1993a). Production wells used to supply the installation were drilled to a depth of 50 to 70 feet before reaching fractured, granitic bedrock capable of transmitting enough water to supply the camp.

According to a report by the U.S. Army Engineer District, Alaska titled "Report of Foundations and Materials Investigations Airmen's Dormitory Northeast Cape AFS" (August 12, 1963), a 70 foot water supply well (Water Supply Well No. 4) was drilled adjacent to the southerly side of the Water Storage Building at an elevation of 99 feet above sea level. (Note this water well appears to be labeled Well No. 1 on as-built drawings). Water Supply Well No. 4 encountered overburden to a depth of 39 feet, and bedrock granite or granodiorite below this depth. The aquifers are fracture zones in bedrock at depths of 51 to 56 feet and 62 to 65 feet. No visible frozen formations were reported during the drilling. Water in limited amounts occurred in the overburden at a depth of 30.5 feet.

In addition, during the drilling of Water Supply Well No. 5 (a 68-ft water well just inside the northerly corner of the Lower Tramway Terminal addition, approximately 392 feet elevation) overburden was encountered to a depth of 33 feet and bedrock granite or granodiorite below this depth. The overburden is logged as a mixture of silt, sand, gravel, and boulders. The aquifers are again fracture zones in bedrock at depths of 55-57 feet and 64-65 feet, similar to Water Supply Well No. 4. Water in limited amounts was encountered in the overburden at a depth of 16 to 18 feet. No visibly frozen formations were reported during the drilling.

The bedrock aquifer may be connected to the confined overburden aquifer hinted at by a boring near the Suqi River. According to Corps of Engineers maps (dated 10 November 1950) at a drill hole (DH-53) immediately west of Cargo Beach Road and adjacent to the Suqitughneq, artesian water (estimated flow 4 gal/min over top of casing) was encountered beneath a hard, packed silt layer at 18-20 feet below ground surface. This boring was located at an elevation of 38.2 feet above sea level, and extended to a depth of 35 feet.

Groundwater was encountered in the Main Complex potable water wells between 22 and 30 feet below the top of the steel casing in July 2001, when they were decommissioned. Little is known

about the capacity, construction characteristics, or method of abandonment of these wells. A driller's log is available for one of the wells, indicating "coarse sand (water)" at a depth of 9 to 28 feet, underlying silty surficial deposits, and clean gravel and sand from a depth of 28 to 32 feet.

The use of four wells and accompanying storage tanks may indicate that groundwater was not always available in the same quantities throughout the year. Evidence of artesian flow was observed in a soil boring near the Suqitughneq River, which indicates that some areas may be overlain by impermeable layers such as permafrost or hardpan silts.

There is insufficient data to determine whether this deep aquifer is continuous or not throughout the Northeast Cape area. It is suspected that the deep groundwater consists of pockets of groundwater interspersed within an intermittent permafrost layer.

At the installation, shallow subsurface water has been observed intermittently across the installation to a depth of 15 feet over the course of the investigations conducted during the past 8 years. The shallow, intermittent subsurface water is suspected to consist of seasonally-thawed water within the active layer of the shallow soils that is intermittent both spatially and temporally.

At present, there is insufficient information to determine whether the shallow intermittent subsurface water is hydraulically connected to the deep groundwater. A key factor influencing the flow of groundwater at the installation is the existence of permafrost and frozen soils, which can render the unconsolidated materials effectively impermeable. The United States Geological Survey has classified St. Lawrence Island as an area of "moderately thick to thin permafrost." Although the depth of permafrost at St. Lawrence Island is unknown, the base of permafrost on the mainland at Nome (135 air miles to the northeast) is estimated to be at a depth 120 feet (Ferrians, 1965). The deeper unconsolidated deposits at the installation are probably permanently frozen, and the shallow soils observed during this investigation represent the active layer where soils are thawed only during portions of the year. Frozen soils are expected to have a profound effect in retarding groundwater flow both vertically and horizontally during most of the year.

1.5.6 Hydrology

Other than the Bering Sea north of the Northeast Cape facility, surface water in the vicinity of the installation consists of marshy areas, small streams, and small- to moderate-sized lakes that are often ephemeral. Surface water generally flows from the highland area south of the installation in a northward direction. Small ephemeral surface-water bodies are common throughout the area. The primary stream drainage in the area is fed by runoff from the prominent drainage of the Kinipaghulghat Mountain valley south of the installation. In late 1999, this was determined to be the Suqitughneq River. This stream drainage is fed by several smaller tributaries as it flows north to Kitnagak Point. The smaller tributaries originate from two small, unnamed lakes (Figure 1-3).

During the period of field work for the Phase I RI (July and August of 1994), it was noted that surface water flow was highly dynamic, changing significantly over the course of a few days

(Montgomery Watson, 1995b). For example, it was noted that streamflow in the major drainage south of the installation varied significantly, from several hundred gallons per minute during warm days, to no flow during relatively cold periods lasting more than a day (the runoff was primarily snowmelt from higher elevations). In other locations, small lakes and marshy areas created by recent snowmelt were observed to dry up and/or change shape over the course of a few days or weeks.

Over the course of the Phase I, II and III RIs, the only consistent surface water observed at the installation is the Suqitughneq River, it's tributaries, and some of the larger lakes. The remaining "lakes" and marshy areas are ephemeral and may not be capable of consistently supporting aquatic life (e.g., fish). For clarity, these areas are identified in this Report as ephemeral ponds.

Phase III RI fieldwork performed in 2002 found the Northeast Cape study area drier than had previously been observed. Ephemeral ponds and drainages were dry and the Suqitughneq River level was very low, compared to previous years.

1.6 DEMOGRAPHY AND LAND USE

The Village of Savoonga is approximately 60 miles northwest of Northeast Cape and has a population of 643 people, as reported in the 2000 United States Census. There are currently no permanent residents at the Northeast Cape installation, however subsistence hunting, gathering, and fishing occurs in the vicinity. A local fish camp near Cargo Beach is inhabited during the summer by residents of Savoonga and Gambell.

1.7 ECOLOGY, WILDLIFE AND ENDANGERED SPECIES

The Northeast Cape area supports habitat for a variety of seabirds, waterfowl, and mammals that either breed in or migrate through the area. The ocean surrounding the Northeast Cape area is used for subsistence hunting of walrus, seal, sea birds, fish (e.g., halibut), whales and polar bear. Additionally, Arctic fox, cross fox, and reindeer inhabit the area.

1.7.1 Vegetation

Vegetation in the Northeast Cape area is classified as alpine tundra. This type of vegetation is predominantly white mountain avens, mat forming herbs, grasses, and sedges. Shrubs include bearberry, dwarf birch, narrow leaf Labrador tea, willow, heaths, and cassiopes. The Northeast Cape Site consists of many low-lying areas featuring lakes, bogs, and poorly-drained soils. In these areas, vegetation is typically classified as wet tundra, which is dominated by heaths, sedges, mosses, lichens, and cotton grass (URS, 1985).

1.7.2 Birds

The only breeding seabird colony known to exist at the Northeast Cape installation consists of 60 glaucous gulls on Seevookhan Mountain. This colony, cataloged as 93-19 by the United States Fish and Wildlife Service Catalog of Alaskan Seabird Colonies, is the most current known

estimate of breeding seabirds in the area. Several other species of birds have been sighted in the vicinity of the installation, including common ravens, snow bunting, whistling swans, Lapland longspurs, sandhill cranes, and sea gulls (URS, 1985).

1.7.3 Mammals

Large mammals are generally not abundant on St. Lawrence Island. However, polar bear can be seen on the island year round, especially when the ice pack is near shore. Grizzly bear have been reported on the island, but are rarely seen. A population of several hundred reindeer can also be found on the island. Arctic fox, red fox, cross fox, and several small mammal species (tundra shrew, Arctic ground squirrel, Greenland collared lemming, red-backed vole, and tundra vole) also reside on the island (URS, 1985).

Marine mammals are present in the vicinity of Northeast Cape as seasonal migrants in the offshore and near-shore marine waters, at haul-out sites, and in association with the advancing and retreating pack ice. However, there are no haul-out areas within the installation. During the summer, walrus, sea lions, and spotted seals may be present in the offshore waters. During the ice season, ringed seals, bearded seals, walrus, and spotted seals can be found in near-shore and offshore leads and open water. Whale species that can be seen near the installation include bowhead, gray, minke, killer, and beluga (USKH, 1993).

1.7.4 Fish

There are ten primary species of fish that reside in the streams and lagoons of St. Lawrence Island. These include blackfish, nine-spined stickleback, grayling, Dolly Varden, and whitefish. Five of the six species of Pacific Salmon occur around the island. According to Savoonga natives, the Suqitughneq River (Figure 1-3) once supported large fish populations (including sockeye and silver salmon), but the stream no longer supports these populations. This is perhaps due to a large diesel oil spill originating from Site 11 (Fuel Storage Tank Area) that entered one of the stream's tributaries in 1969. Juvenile and adult Dolly Varden have been observed along the length of the Suqitughneq River (URS, 1985).

1.7.5 Endangered Species

Endangered or threatened species of animals on St. Lawrence Island include the Spectacled Eider (endangered), the Steller's Eider (proposed threatened), and the Steller's sea lion (threatened). The prevalence of these animals at the Northeast Cape installation is unknown. Polar bears are not an endangered or threatened species; however, they are protected under the Marine Mammal Protection Act. Alaska Natives are exempt from this act, and are allowed to hunt polar bears for subsistence purposes or handcrafts, as long as the population is not depleted and the animals are not wasted. Vegetative species that have been proposed as threatened include Krause's Sorrel *(Rumex krausei)* and Chukchi Primrose *(Primula tschuktschorum).*

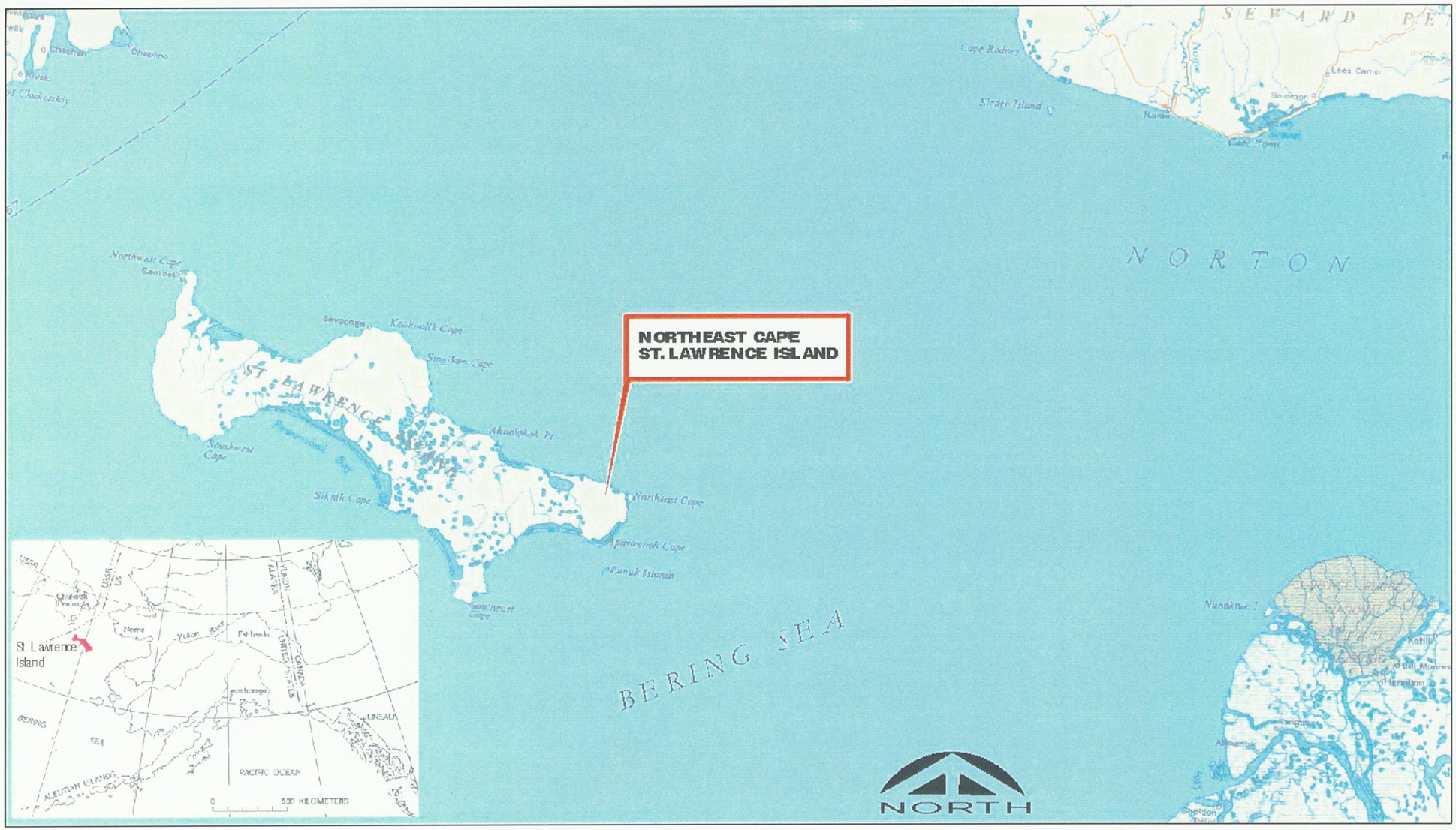
1.8 ARCHAEOLOGICAL, HISTORICAL, AND CULTURAL RESOURCES

The Northeast Cape installation was determined to be eligible for the National Register of Historic Places by the United States Army Corps of Engineers, along with all other WACS sites in Alaska. The State Historic Preservation Officer was informed of the federal undertaking at Northeast Cape in January 1999, and a memorandum of agreement covering mitigation for adverse effects of investigations and BD/DR at Northeast Cape was signed in July 1999.

In addition to the Cold War era buildings and structures at Northeast Cape, there are archaeological sites, cemeteries, and the fishing village at the end of the road. These sites were not disturbed by the investigations.

No artifacts or historic remains were collected from any sites.

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SOURCE: U.S. Geological Survey Reston, Virginia 22092, 1976 – St. Lawrence, Alaska N6265 – W16830 60x210
Surveyed 1948, Compiled 1957 Minor Revisions 1974 – Scale 1:250,000 Contour Interval 100'

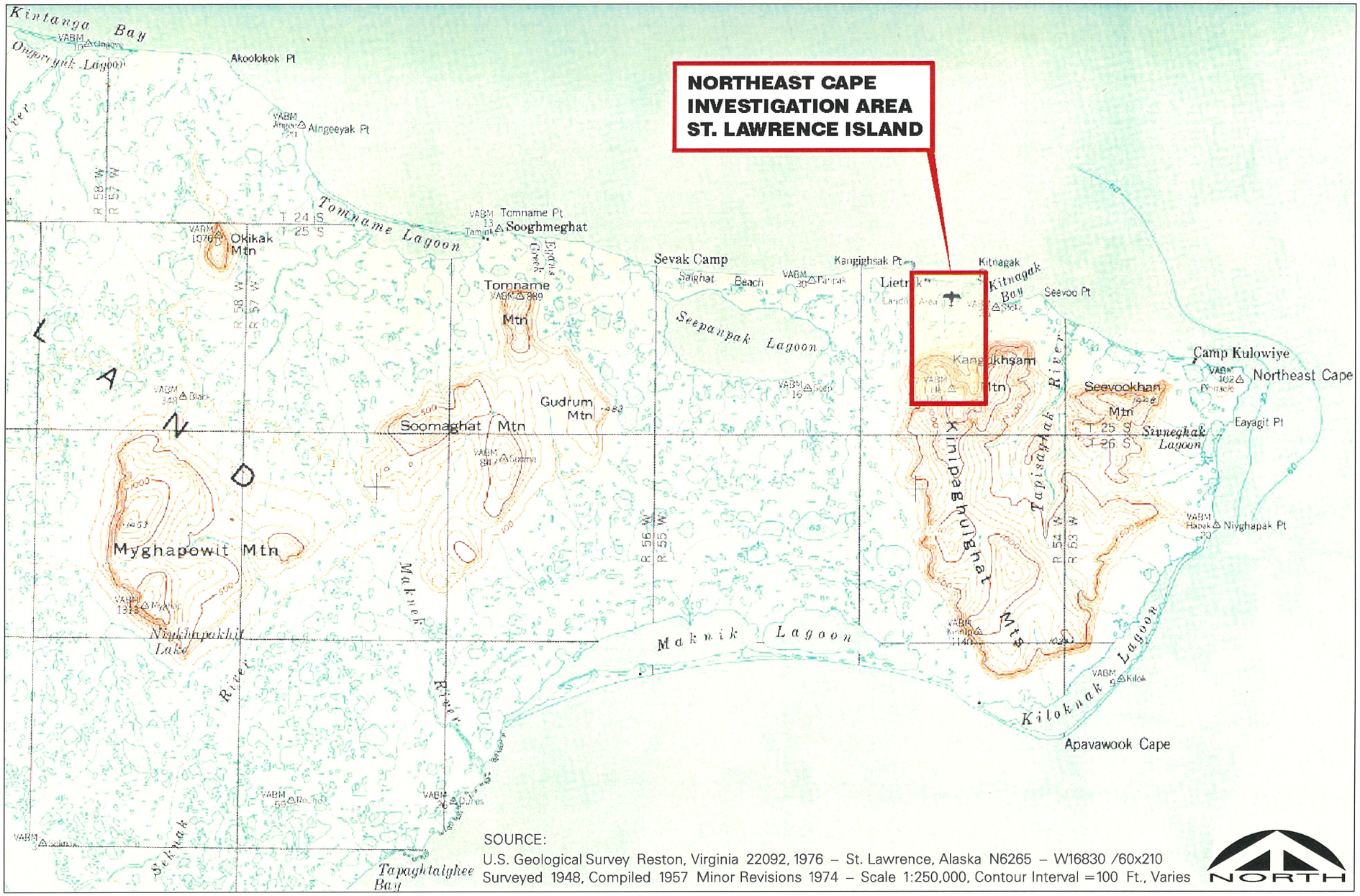
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Anchorage, Alaska

FIGURE 1-1

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

VICINITY MAP

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SOURCE:
U.S. Geological Survey Reston, Virginia 22092, 1976 – St. Lawrence, Alaska N6265 – W16830 /60x210
Surveyed 1948, Compiled 1957 Minor Revisions 1974 – Scale 1:250,000, Contour Interval =100 Ft., Varies

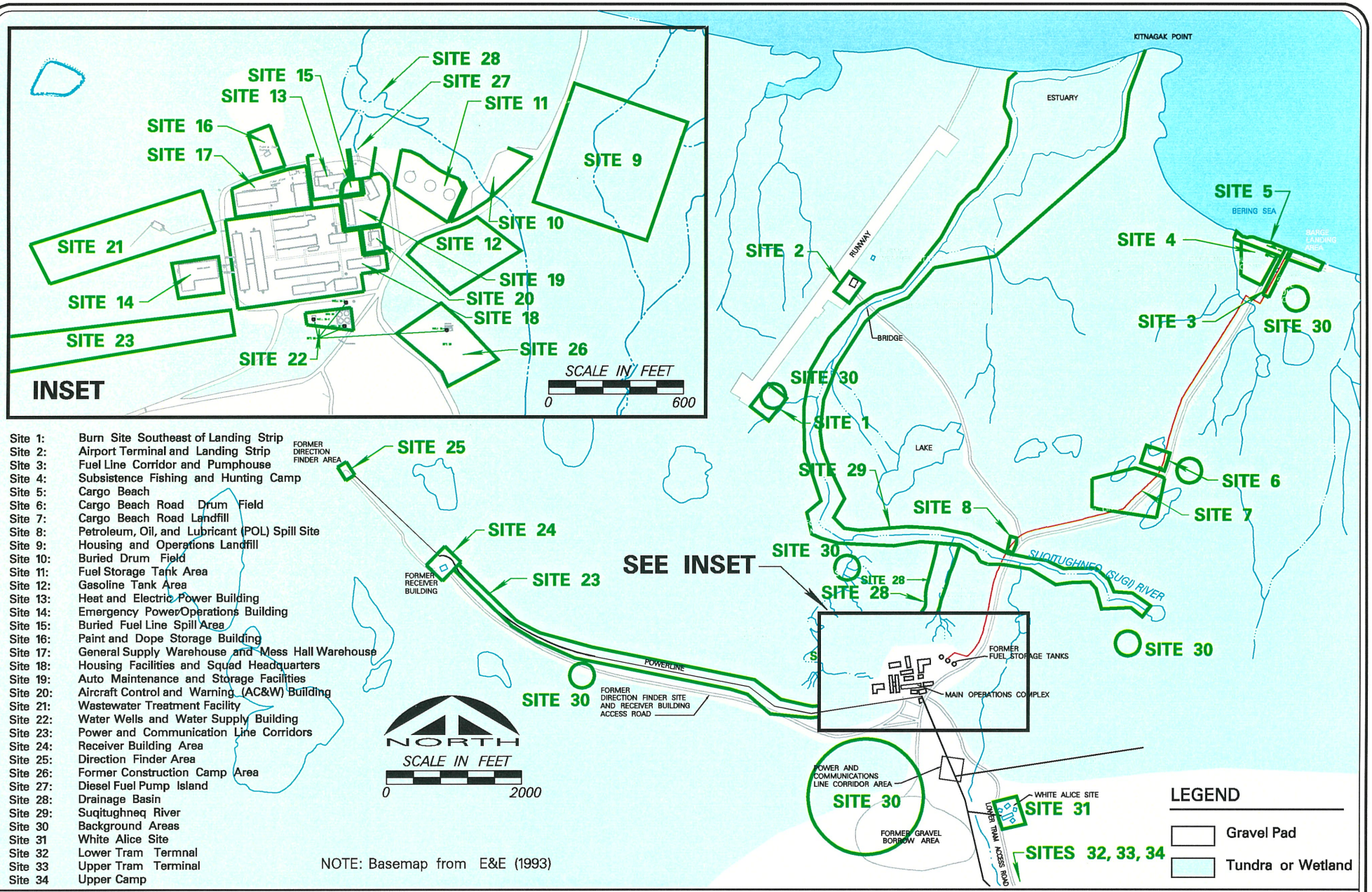
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Anchorage, Alaska

FIGURE 1–2

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

LOCATION MAP

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Site 1: Burn Site Southeast of Landing Strip
Site 2: Airport Terminal and Landing Strip
Site 3: Fuel Line Corridor and Pumphouse
Site 4: Subsistence Fishing and Hunting Camp
Site 5: Cargo Beach
Site 6: Cargo Beach Road Drum Field
Site 7: Cargo Beach Road Landfill
Site 8: Petroleum, Oil, and Lubricant (POL) Spill Site
Site 9: Housing and Operations Landfill
Site 10: Buried Drum Field
Site 11: Fuel Storage Tank Area
Site 12: Gasoline Tank Area
Site 13: Heat and Electric Power Building
Site 14: Emergency Power/Operations Building
Site 15: Buried Fuel Line Spill Area
Site 16: Paint and Dope Storage Building
Site 17: General Supply Warehouse and Mess Hall Warehouse
Site 18: Housing Facilities and Squad Headquarters
Site 19: Auto Maintenance and Storage Facilities
Site 20: Aircraft Control and Warning (AC&W) Building
Site 21: Wastewater Treatment Facility
Site 22: Water Wells and Water Supply Building
Site 23: Power and Communication Line Corridors
Site 24: Receiver Building Area
Site 25: Direction Finder Area
Site 26: Former Construction Camp Area
Site 27: Diesel Fuel Pump Island
Site 28: Drainage Basin
Site 29: Suqitughneq River
Site 30 Background Areas
Site 31 White Alice Site
Site 32 Lower Tram Termnal
Site 33 Upper Tram Terminal
Site 34 Upper Camp

NOTE: Basemap from E&E (1993)

MWH
Anchorage, Alaska

FIGURE 1–3
U. S. ARMY ENGINEER DISTRICT, ALASKA – N. E. CAPE, ALASKA
2002 PHASE III REMEDIAL INVESTIGATION

SITE MAP

2.0 INVESTIGATION OBJECTIVES, ACTIVITIES, AND RESULTS

All fieldwork at the Northeast Cape installation has complied with the provisions of Nationwide Permit No. 6 for Survey Activities, General Concurrence No. 24, of the Coastal Zone Management Plan, and Land Use Agreement No. DACA 85-9-98-41 between the USAED and the landowners. Except as noted, all fieldwork was performed in accordance with the Final Phase III Work Plan, (Montgomery Watson, 2001a), and the Biological Sampling Plan (BSP – Montgomery Watson, 2001b).

Sites investigated during the Phase III RI are listed in Table 2-1. Some sites are grouped for presentation and discussion in this Report.

Table 2-1
Northeast Cape Phase III RI Sites

Site Number	Site Description
Site 3	Fuel Line Corridor and Pumphouse
Site 4	Subsistence Fishing and Hunting Camp
Site 6	Cargo Beach Road Drum Field
Site 7	Cargo Beach Road Landfill
Site 9	Housing and Operations Landfill
Sites 13, 15, 19, 20 and 27 (Site 88)	Main Operations Complex
Site 14	Emergency Power/Operations Building
Site 16	Paint and Dope Storage Building
Site 21	Wastewater Treatment Facility
Site 22	Water Wells and Water Supply Building
Site 24	Receiver Building Area
Site 26	Former Construction Camp Area
Site 28	Drainage Basin
Site 29	Suqitughneq River
Site 30	Background Areas
Site 31	White Alice Site
Site 32	Lower Tram Terminal
Site 33	Upper Tram Terminal
Site 34	Upper Camp

Key:
RI = remedial investigation

2.1 ENVIRONMENTAL SAMPLING

This report describes the field activities and analytical results performed in 2001 and 2002 as part of the Phase III RI. Information on sites previously investigated and data from samples collected before 2001 may be found in the RI Report (Montgomery Watson 1995b), the Phase II RI Report (Montgomery Watson 1999), and other report addenda and technical memoranda listed in Section 1.4.

Environmental media sampled during the Phase III RI consisted of soil, sediment, surface water, groundwater, fish tissue, and plant tissue. For the purposes of the remedial investigation, the media was designated based on the condition of the sample location at the time of sampling. For example, a sample collected from an unsaturated soil is designated as soil. A soil sample collected from an area that was permanently or temporarily covered with water is designated as sediment. All water samples collected from standing or flowing water bodies were designated as surface water regardless of whether the water was ephemeral, or supported an aquatic community. All water samples collected from monitoring wells, well points or the former water supply wells were designated as groundwater.

This system of classification is suitable for the remedial investigation. However, it will be appropriate to reevaluate the media designations prior to using the data in the risk assessment, in order to assign media designations that can be used to accurately identify the risk pathways and receptors.

Unless otherwise stated, metals analyzed in environmental samples include: arsenic, aluminum, antimony, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc.

Brief site descriptions, objectives for the Phase III RI fieldwork, field activities performed, and a summary of analytical results are provided below. Environmental sampling locations are shown on Figures 2-1 through 2-29, located at the end of Section 2.

To provide a context for the remedial investigation results, laboratory results are compared to selected environmental benchmarks in Sections 2 and 3 of this report. Analytical data are compared to the most recent constituent-specific criteria provided in the State of Alaska's Oil and Other Hazardous Substances Pollution Control Regulations (18 AAC 75 as amended through January 30, 2003). Data from soil and sediment sampling are compared to 18 AAC 75.340 Method Two, Tables B1 and B2, under 40-inch zone, migration to groundwater pathway, referred to herein as 'Method Two'. Data from groundwater and surface water sampling are compared to 18 AAC 75.345 Table C. Cumulative risk calculations were not considered. In depth evaluation of the remedial investigation data, including identification and screening against relevant criteria will be performed and presented in the risk assessment.

Only analytes that exceeded the numerical single-constituent ADEC cleanup levels (18 AAC 75, Tables B1, B2, and C) in for one or more samples are listed in the report tables. A complete list of all analytical results from Phase III sampling is provided in Appendix D.

2.1.1 Site 3 – Fuel Line Corridor and Pumphouse

2.1.1.1 Background

Site 3, the Fuel Line Corridor and Pumphouse, is located at the northern edge of the project area. Site 3 contained a fuel pumphouse, two empty ASTs that were formerly used to store diesel fuel, and a 4-inch fuel line (Montgomery Watson, 1999). These were removed during 2000/2001 BD/DR activities. Previous investigations found 14 milligrams per liter (mg/L) diesel range organics (DRO) in shallow groundwater at the source area (Fuel Pumphouse) (Montgomery Watson, 1999).

Objectives of Phase III RI fieldwork at Site 3 were to confirm DRO contamination in shallow groundwater and define the extent of the contamination.

2.1.1.2 Groundwater Sampling

As stated in the Work Plan, three well points were installed to the maximum depth feasible, which in this case was 3 to 6 feet below ground surface (bgs) when bedrock was encountered. Each well was sampled to evaluate the extent of DRO-contaminated groundwater. Recharge in the well points was adequate for sample collection and the ground was saturated in this area. Well Point WP 3-2 was installed approximately 60 feet downgradient (north) of the suspected source area, WP 3-3 was installed approximately 70 feet downgradient (east) of the suspected source area, and WP 3-4 was installed between the gravel pad and a surface drainage to the east (Figure 2-1). Photos of well points are provided in Appendix C. Groundwater samples were collected from each well point and analyzed for DRO and residual range organics (RRO).

DRO concentrations ranged from 1.8 to 3.3 mg/L, exceeding the ADEC Table C groundwater cleanup level (Table 2-2). RRO concentrations ranged from 1.3 to 8.1 mg/L, also exceeding the Table C cleanup level.

Table 2-2
Site 3 Groundwater Results, Regulatory Exceedences

Sample Location	Sample Identification	DRO (mg/L)	RRO (mg/L)
WP 3-2	01NE03WP102	**3.3**	**1.3 VJ**
WP 3-3	01NE03WP103	**2.4**	**8.1 VJ**
WP 3-4	01NE03WP104	**1.8**	**6.3 VJ**
ADEC Table C Cleanup Level		1.5	1.1

Key:

Bold indicates concentration exceeds cleanup level.
ADEC = Alaska Department of Environmental Conservation
DRO = diesel range organics
mg/L = milligrams per liter
RRO = residual range organics
VJ = estimated value
RRO = well point

2.1.2 Site 4 – Subsistence Fishing and Hunting Camp

2.1.2.1 Background

Site 4, the Subsistence Fishing and Hunting Camp, contains wood frame structures, abandoned vehicles, drums, and two abandoned aboveground storage tanks (ASTs) most of which was removed during the 2000/2001 BD/DR activities. Both ASTs reportedly were used for water storage. Previous investigations identified DRO in shallow groundwater at a concentration of 3.7 mg/L and DRO in soil at concentrations up to 5,300 milligrams per kilogram (mg/kg) (Montgomery Watson, 1999).

Objectives of Phase III RI fieldwork at Site 4 were to confirm DRO contamination in shallow groundwater and define the extent of the contamination.

2.1.2.2 Groundwater Sampling

As stated in the Work Plan, three well points were installed to the maximum depth feasible, which in this case was 3 to 6 feet below ground surface (bgs) when bedrock was encountered. Each well was sampled to evaluate the extent of DRO-contaminated groundwater.

The ground was saturated in this area and recharge in the well points was adequate for sample collection. Well Points WP 4-2, WP 4-3, and WP 4-4 were installed approximately 40, 80, and 40 feet downgradient (north) of the former oil drum storage area, respectively (Figure 2-2). Photos of well points are provided in Appendix C. Groundwater samples were collected from each well point and analyzed for DRO and RRO.

DRO concentrations ranged from 0.96 to 2.0 mg/L, exceeding the ADEC Table C groundwater cleanup level in the sample for WP4-3 (Table 2-3). RRO concentrations ranged from 2.6 to 6.5 mg/L, also exceeding the Table C cleanup level.

Table 2-3
Site 4 Groundwater Results, Regulatory Exceedences

Sample Location	Sample Identification	DRO (mg/L)	RRO (mg/L)
WP 4-2	01NE04WP102	1.4 VB	**6.5 VJ**
WP 4-3	01NE04WP103	**2.0 VB**	**5.4 VJ**
WP 4-4	01NE04WP104	0.96 VB	**2.6 VJ**
ADEC Table C Cleanup Level		1.5	1.1

Key:

Bold indicates concentration exceeds cleanup level.

ADEC = Alaska Department of Environmental Conservation
DRO = diesel range organics
mg/L = milligrams per liter
RRO = residual range organics
VB = analyte detected in sample and associated blank indicating a possible false-positive result
VJ = estimated value
WP = well point

2.1.3 Site 6 – Cargo Beach Road Drum Field

2.1.3.1 Background

During 2000-2001 BD/DR activities, all debris was removed from Site 6 including an empty 500-gallon AST, metal debris, and 1,500 drums. These drums are thought to have contained petroleum, oil, or lubricants (POL) that were used during installation operations then discarded when empty, although some may have contained some minor residual amounts of sludge or fluids. Previous investigations at the site identified DRO at concentrations of up to 102,000 mg/kg in soil and sediment, and up to 1.8 mg/L in shallow ephemeral surface water (Montgomery Watson, 1999).

Objectives of Phase III RI fieldwork at Site 6 were to refine the extent of DRO contamination in soil and groundwater.

2.1.3.2 Soil Sampling

Two test pits were excavated to bedrock within the stained soil area at Site 6 to evaluate the depth of contamination in the soil (Figure 2-3). Photos of test pits are provided in Appendix C. One soil sample was collected from the soil/bedrock interface at the bottom each test pit and analyzed for DRO, RRO, and total organic carbon (TOC) by a laboratory-specific standard method.

DRO concentrations were 2,000 mg/kg at 5.3 feet bgs in Test Pit 6-1 and 3,000 mg/kg at 5 feet bgs in Test Pit 6-2, exceeding the ADEC Method Two cleanup level in both samples (Table 2-4). RRO was not detected at concentrations exceeding the Method Two cleanup level. TOC was measured at 2.0 and 2.6 percent.

Two sediment samples were collected: SD116 and SD117 from two ephemeral ponds south and north, respectively, of the drum field (Figure 2-3). Photos of sample locations are provided in Appendix C. The sediment samples were analyzed for DRO, RRO, gasoline range organics (GRO), PCBs, metals, and benzene, toluene, ethylbenzene, and xylenes (BTEX).

Arsenic was detected in sample SD117 at 4.1 mg/kg, above the ADEC Method Two cleanup level (Table 2-4). No DRO, RRO, BTEX, or other metals were detected at concentrations exceeding Method Two cleanup levels. GRO and PCBs were not detected.

2.1.3.3 Shallow Groundwater and Surface Water Sampling

Well Point WP 6-1 was installed within the stained soil/former drum storage area of the pad to a depth of 3.2 feet bgs where bedrock was encountered. The well point did not yield any water. Well Point WP 6-2 was installed 3 to 6 feet bgs approximately 80 feet downgradient (north) of the pad. The sample collected from WP 6-2 was analyzed for DRO and RRO. Well Point WP 6-3 was installed 3 to 6 feet bgs near the southwestern edge of the stained soil area between two ephemeral surface water bodies (Figure 2-3). Photos of well points are provided in Appendix C.

Table 2-4
Site 6 Results, Regulatory Exceedences

Sample Location	Sample Identification	Sample Depth (ft. bgs)	DRO	RRO	Arsenic	Beryllium	Cadmium	Chromium	Lead	Nickel	Thallium	Zinc
Soil (mg/kg)												
TP 6-1	01NE06TP101	5.3	**2,000**	3,400 VJ	NA	NA	NA	NA	NA	NA	NA	NA
TP 6-2	01NE06TP102	5.0	**3,000**	8,500 VJ	NA	NA	NA	NA	NA	NA	NA	NA
SD 117	01NE06SD117	0.5	40	220 VJ	**4.1**	0.8	ND (0.2)	13.9	15.0	9.0	ND (6.0)	29.8
ADEC Method Two Cleanup Level			250	11,000	2	42	5	26	400	87	NC	9,100
Groundwater (mg/L)												
WP 6-3	01NE06WP103	N/A	0.29 VB	ND (0.5)	ND(0.022)	**0.004**	**0.006**	**1.22**	**0.16**	**1.68**	**0.002**	**17.7**
ADEC Table C Cleanup Level			1.5	1.1	0.05	0.004	0.005	0.1	0.015	0.1	0.002	11.0

Key:

Bold indicates concentration exceeds cleanup level.

ADEC = Alaska Department of Environmental Conservation
DRO = diesel range organics
Ft. bgs = feet below ground surface
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
N/A = not applicable
NA = not analyzed
NC = no cleanup level in 18 AAC 75 Table B
ND = analyte not detected. Method reporting limit shown in parenthesis
RRO = residual range organics
SD = sediment
TP = test pit
VB = analyte detected in sample and associated blank indicating a possible false-positive result
VJ = estimated value
WP = well point

The sample collected from WP 6-3 was analyzed for DRO, RRO, GRO, BTEX, PCBs, and metals.

DRO and RRO were not detected in the sample from WP 6-2. In the sample from WP 6-3, the following analytes were detected at concentrations that equaled or exceeded ADEC Table C cleanup levels: beryllium, cadmium, chromium, lead, nickel, thallium and zinc (Table 2-4).

Because WP 6-1 was dry, surface water sample SW116 was collected from an ephemeral surface water body north of the former drum field. A photo of the sample location is provided in Appendix C. This sample was analyzed for DRO and RRO. Neither was detected.

2.1.4 Site 7 – Cargo Beach Road Landfill

2.1.4.1 Background

This site contains an unpermitted solid waste landfill used from 1965 until 1974. In 2000, numerous exposed drums and metal debris were removed from the area southeast of Cargo Beach Road. Previous investigations found DRO concentrations up to 32,000 mg/kg in soil around the perimeter of the refuse (Montgomery Watson, 1999).

Objectives of Phase III RI fieldwork at Site 7 were to determine whether drums and surface debris have impacted surface soils and if the landfill qualifies for closure under ADEC's closure criteria as described in 18 AAC 60.390.

ADEC Class III landfill closure is based on the following criteria:

- Revegetation of the site
- Cover of 24 inches thickness or greater that promotes drainage
- Absence of surface runoff that could lead to erosion of the cover
- Survey and documentation of the landfill area
- Absence of groundwater or soil contamination

2.1.4.2 Landfill Inspection Activities

The landfill was inspected and areas of concern noted in field notes. Areas of concern consisted of exposed debris, unvegetated areas, eroded areas, and other signs that the landfill cover was inadequate.

The existing landfill cover was inspected for protruding debris, sinkholes, and evidence of erosion. Exposed Marston matting, empty drums, cable spools, stained soils, and miscellaneous debris were observed in the area southeast of Cargo Beach Road. The central portion of the landfill is currently being used as a staging area for debris-filled connexes destined for off-island removal. This area is unvegetated and free of debris.

In the area of the landfill northwest of Cargo Beach Road, eroded and sunken areas and pockets of exposed debris were observed along the northern toe of the landfill, with large concentrations

of debris at several locations. Site use by animals was evidenced by burrows, droppings, rodent skeletons, and the presence of active adult cross fox. Most of the vegetation is concentrated along the north side of the landfill. Vegetative cover is estimated at 80 percent.

The landfill cover was inspected for erosion. The site was relatively dry and some of the ephemeral ponds observed in the past had disappeared, so surface runoff pathways may not have been evident. Erosion appears to be concentrated on the southeast side of Cargo Beach Road due to a lack of vegetation.

The landfill boundary was surveyed to meet ADEC closure permit requirements. Survey information is provided in Appendix H.

2.1.4.3 Soil and Sediment Sampling

Three surface soil samples were collected from southeast of Cargo Beach Road at the former exposed drums and metal debris location (Figure 2-4). Sample SS127 was collected within the former drum/debris area, and Samples SS125 and SS126 were collected at the base of the southeastern toe of the landfill, approximately 75 feet downgradient of Sample SS127. Photos of sample locations are provided in Appendix C. Soil samples were analyzed for DRO, RRO, volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), PCBs, and metals.

The following analytes exceeded ADEC Method Two cleanup levels in sample SS127: DRO, arsenic, chromium, lead and PCB Aroclor™-1260 (Table 2-5). In sample SS125 arsenic, chromium and PCB Aroclor™-1260 exceeded Method Two values and in SS126, arsenic, chromium and lead.exceeded Method Two values. No other metals, DRO, RRO, VOCs, or PCBs were detected at concentrations exceeding Method Two cleanup levels in these surface soil samples.

Two sediment samples were collected from ephemeral surface water at the site to assess contaminant concentrations in sediment. These samples were co-located with surface water samples. Sample SD104 was collected from an ephemeral surface water body on the north-northwestern border of the landfill area. Sample SD105 was collected in the southeastern corner of the landfill area, across Cargo Beach Road from the main landfill area. Photos of sample locations are provided in Appendix C. Sediment samples were analyzed for DRO, RRO, VOCs, PAHs, PCBs, and metals.

DRO and arsenic were detected at concentrations exceeding the ADEC Method Two cleanup levels in both sediment samples (Table 2-5). No RRO, VOCs, PAHs, PCBs, or other metals were detected at concentrations exceeding Method Two cleanup levels.

2.1.4.4 Groundwater and Surface Water Sampling

Shallow groundwater and surface water are believed to be in close communication as evidenced by the lack of or abundance of both, depending on recent weather conditions. Shallow

Table 2-5
Site 7 Results, Regulatory Exceedences

Sample Location	Sample Identification	Sample Depth (ft. bgs)	DRO	RRO	PCB Aroclor™-1260	Arsenic	Chromium	Lead	Nickel
Soil (mg/kg)									
SS 125	01NE07SS125	0.5	150	620 VJ	**1.1**	**50**	**64**	350	37
SS 126	01NE07SS126	0.5	160	740 VJ	0.13	**17.3**	**75**	**460**	43
SS 127	01NE07SS127	0.5	**720**	3,600 VJ	**13**	**30**	**65**	**419**	57
SD 104	01NE07SD104	0.5	**1,400**	2,800 VJ	ND(0.079)	**3.3**	19	41	13
SD 105	01NE07SD105	0.5	**280**	1,700 VJ	ND(0.28)	**4.1**	5	20	5
ADEC Method Two Cleanup Level			250	11,000	1	2	26	400	87
Groundwater (mg/L)									
WP 7-1	01NE07WP101	N/A	0.66	**2.7 VJ**	ND(0.001)	**0.01**	**0.255**	**0.04**	**3.54**
WP 7-2	01NE07WP102	N/A	ND(0.25)	**1.1 VJ**	ND(0.001)	**0.004**	0.014	**0.017**	ND(0.01)
WP 7-3	01NE07WP103	N/A	0.39 VJ	**1.4 VJ**	ND(0.001)	**0.004**	0.014	0.006	ND(0.01)
ADEC Table C Cleanup Level			1.5	1.1	0.05	0.004	0.1	0.015	0.1

Key:

Bold indicates concentration exceeds cleanup level.

ADEC = Alaska Department of Environmental Conservation
DRO = diesel range organics
Ft. bgs = feet below ground surface
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
N/A = not applicable
ND = analyte not detected. Method reporting limit shown in parenthesis
PCB = polychlorinated biphenyl
RRO = residual range organics
SD = sediment
SS = surface soil
VJ = estimated value
WP = well point

groundwater is inferred to flow topographically downgradient in a radial pattern mimicking the topography at the site.

To evaluate any impact to groundwater, three well points were installed 3 to 6 feet bgs downgradient of the landfill (Figure 2-4). WP 7-1 was installed near the western edge of the landfill area. WP 7-2 and WP 7-3 were installed 235 feet apart, approximately 125 and 165 feet, respectively, north of the north-northeastern border of the landfill area.

Despite being installed in saturated ground, these well points yielded very little water. WP7-1 required several days to produce the 3 to 4 liters of water required by the laboratory.

Groundwater samples were collected from each well point and were analyzed for DRO, RRO, GRO, VOCs, PAHs, PCBs, and metals.

DRO and GRO were below Table C cleanup levels in all three samples. RRO was detected in all three samples at concentrations ranging from 1.1 to 2.7 mg/L, equaling or exceeding the Table C cleanup level (Table 2-5). In the sample collected from WP 7-1, chromium, lead, and nickel were detected at concentrations that exceed Table C cleanup levels. The sample from WP 7-2 contained lead in exceedence of the Table C cleanup level. No PCBs, PAHs, or VOCs were detected in the samples, except acetone, which was detected below the Table C cleanup level in the sample from WP 7-1.

Two surface water samples were collected from ephemeral surface water bodies at the site to assess contaminant migration. At each of these locations a surface water and sediment samples were collected. Sample SW104 was collected from the ephemeral surface water on the north-northwestern border of the landfill area. Sample SW105 was collected in the southeastern corner of the landfill area, across Cargo Beach Road from the main landfill area. Photos of sample locations are provided in Appendix C. Surface water samples were analyzed for DRO, GRO, RRO, VOCs, PAHs, PCBs, and metals.

DRO, RRO, GRO, VOCs, PAHs, and PCBs were not detected at or above the method reporting limit. No metals were detected at concentrations exceeding Table C cleanup levels.

Therefore, it appears that localized areas of contamination may be present, but the extent is limited either by the quantity of contamination present or undetermined subsurface migration patterns.

2.1.5 Site 9 – Housing and Operations Landfill

2.1.5.1 Background

This site was used as a waste disposal location from 1952 until 1965. Previous investigations found DRO concentrations of up to 375 mg/kg in soil and up to 250 mg/kg in sediment (Montgomery Watson, 1999). DRO was also detected at concentrations of up to 11 mg/L in groundwater.

Objectives of Phase III RI fieldwork at Site 9 were to determine whether the landfill qualifies for closure under ADEC's closure criteria, and to delineate the extent of groundwater contamination.

ADEC Class III landfill closure is based on the following criteria:

- Revegetation of the site
- Cover of 24 inches thickness or greater that promotes drainage
- Absence of surface runoff that could lead to erosion of the cover
- Survey and documentation of the landfill area
- Absence of groundwater or soil contamination

2.1.5.2 Landfill Inspection Activities

The landfill was inspected and areas of concern noted. Areas of concern included exposed debris, unvegetated areas, eroded areas, and other signs that the landfill cover was inadequate.

The existing landfill cover was inspected for protruding debris, sinkholes, and evidence of erosion. Exposed debris was observed in piles around the site and partially submerged in surface water bodies, including ponds and streams.

The landfill area is largely vegetated, with only a small area lacking in vegetation directly on the surface of the former landfill. Vegetated area is estimated at 80 percent.

The landfill cap was inspected for erosion. Prominent surface drainages are present in the form of erosion pathways formed by run-off and standing surface water (Figure 2-5). Surface water runs through Site 9 in several locations, eventually entering the Suqitughneq River approximately ¼-mile to the north. Debris is exposed in some channels, suggesting that erosion could expose more debris, especially during high rainfall years or as the run-off changes course. Iron-stained sediment was observed in some of the run-off channels.

The landfill boundary was surveyed to meet ADEC closure permit requirements. Survey results are provided in Appendix H.

2.1.5.3 Sediment Sampling

To evaluate contamination in sediment, five sediment samples were collected: three from locations where surface water samples were collected and two from approximately 100 and 200 feet downgradient (north) of the landfill. Sediment samples were analyzed for DRO, RRO, VOCs, PAHs, PCBs, TOC, and metals.

In the three sediment samples co-located with surface water samples (SD107, SD108, and SD109), arsenic was detected above Method Two cleanup levels – ranging from 5.9 to 25.7 mg/kg (Table 2-6). Photos of sample location are provided in Appendix C. DRO was detected at concentrations at or above the Method Two cleanup level in Sample SD107. Toluene was detected at or above the Method Two cleanup level in Sample SD108. Concentrations of DRO, antimony, cadmium, chromium, lead, and nickel were detected above Method Two cleanup

Table 2-6
Site 9 Results, Regulatory Exceedences

Sample Location	Sample Identification	Sample Depth (ft. bgs)	DRO	RRO	Arsenic	Antimony	Beryllium	Cadmium	Toluene	Chromium	Lead	Nickel
Soil and Sediment (mg/kg)												
SD 107	01NE09SD107	0.5	**320**	2,100 VJ	**8**	**ND(30)**	0.7	ND(1)	ND(0.22)	5	ND(10)	ND(6)
SD 108	01NE09SD108	0.5	84	520 VJ	**5.9**	**ND(20)**	2.0	ND(0.9)	**6**	22	27	10
SD 109	01NE09SD109	0.5	**510**	1,300 VJ	**25.7**	**250**	ND(1)	**7**	ND(0.081)	**42**	**630**	**110**
SD 113	01NE09SD113	0.5	**270**	1,400 VJ	**10**	**ND(30)**	3.8	1	ND(0.27)	19	100	13
SD 114	01NE09SD114	0.5	93	740 VJ	**6**	**ND(30)**	1.6	ND(1)	ND(0.44)	16	40	10
ADEC Method Two Cleanup Level			250	11,000	2	3.6	42	5	5.4	26	400	87
Groundwater (mg/L)												
MW 9-3	01NE09MW103	N/A	ND (0.25)	ND(0.5)	ND (0.005)	**0.12**	**0.014**	0.004	ND(0.001)	0.099	**0.3**	0.08
WP 9-2	01NE09WP102	N/A	0.93	**4.2**	0.012	ND(0.05)	**0.004**	0.002	ND(0.001)	0.075	**0.056**	**0.11**
ADEC Table C Cleanup Level			1.5	1.1	0.05	0.006	0.004	0.005	1	0.1	0.015	0.1

Key:

Bold indicates concentration exceeds cleanup level.

ADEC = Alaska Department of Environmental Conservation
DRO = diesel range organics
ft. bgs = feet below ground surface
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
MW = monitoring well
N/A = not applicable
NA = not analyzed
ND = analyte not detected. Method reporting limit shown in parenthesis
RRO = residual range organics
SD = sediment
WP = well point

levels in Sample SD109. No other analytes were detected above Method Two cleanup levels, however, the method reporting limit for antimony was above the cleanup level in all soil samples. No PCBs were detected at or above the method reporting limit.

In Sample SD113, collected approximately 100 feet downgradient of the landfill, DRO and arsenic were detected above Method Two cleanup levels. TOC was measured at 28 percent. No PCBs or PAHs were detected at or above the method reporting limits. Acetone was detected at concentrations below the Method 2 cleanup level and no other VOCs were detected at or above the method reporting limits.

In Sample SD114, collected approximately 200 feet downgradient of the landfill, arsenic was detected above the Method Two cleanup level. TOC was measured at 18 percent. No PAHs, PCBs, or VOCs were detected.

2.1.5.4 Groundwater and Surface Water Sampling

Because past sampling results from monitoring wells at this site showed contamination in groundwater, planned activities included resampling of the existing Monitoring Well MW 9-2 and installation and sampling of new well points. Existing Monitoring Well MW 9-2 had been compromised due to weather, so a new well point was installed. The new well point was successfully installed, but yielded no water. In the absence of groundwater, a surface water sample was collected from an ephemeral surface water body at the site (Figure 2-5).

Installation and sampling of four additional well points, one at the location of MW 9-3 and three downgradient of the landfill, was also planned. WP 9-2 was successfully installed and sampled; the other three well points were successfully installed, but yielded no water. Attempts were made to install the well points in several locations, but shallow bedrock was encountered, which made installation unfeasible. Photos of MW 9-3 and WP 9-2 are provided in Appendix C. In the absence of groundwater, three surface water samples were collected from ephemeral surface water bodies adjacent to the planned locations of the well points. Groundwater and surface water samples were analyzed for DRO, RRO, GRO, VOCs, PAHs, PCBs, and metals.

The water sample from MW 9-3 contained concentrations of antimony, beryllium, and lead that exceeded Table C cleanup concentrations (Table 2-6). Sample WP-9-2 contained concentrations of RRO, beryllium, lead, and nickel that exceeded Table C cleanup levels. No other metals or petroleum hydrocarbons exceeded Table C values. PCBs, PAHs, and VOCs were not detected.

Three surface water samples co-located with sediment samples were collected. Samples SW108 and SW109 were upgradient and downgradient, respectively, from the run-off channel that flows through the landfill area. Photos of sample locations are provided in Appendix C. Sample SW108 was east of the standing water at the southeastern edge of the landfill. In the absence of groundwater, surface water samples SW110, SW111, and SW112 were also collected from locations on top of and downgradient of the landfill.

No metals were detected in surface water samples at concentrations exceeding Table C cleanup levels (Appendix D). No DRO, RRO, GRO, VOCs, PAHs, or PCBs were detected.

2.1.6 Sites 13, 15, 19, 20, and 27 – Main Operations Complex (Site 88)

2.1.6.1 Background

The MOC consists of Sites 13, 15, 19, 20, and 27, which includes the Heat and Electric Power Building, Buried Fuel Line Spill Areas, Auto Maintenance and Storage Facilities, Aircraft Control and Warning Building 103, and the Diesel Fuel Pump Island, respectively. These sites are similar because they are adjacent, have similar soil environments (gravel fill over native soil), have similar contaminant types (generally diesel and PCBs), and are a current source of contamination to the Drainage Basin (Site 28). For the purposes of sample identification, these sites were collectively called 'Site 88" during 2002 sampling.

The Aircraft Control and Warning Building 103 (Site 20) was removed in 2001. Sources of contamination at this site were limited to lead and asbestos-containing building materials; therefore, the site was not included in the original Phase III Work Plan. However, after review of figures and analytical data from 2002, contamination from an unidentified source was detected in Monitoring Well MW-10. In the absence of a known source, the upgradient site, Site 20 was added to the investigation.

Objectives of Phase III RI fieldwork at the MOC were to characterize the nature and extent of groundwater and subsurface soil contamination.

A total of 18 soil borings were advanced to the groundwater interface, 10 were completed as monitoring wells (Figure 2-6). Most of the soil borings and monitoring wells were installed at the northern end of the MOC, upgradient of the Drainage Basin (Site 28).

2.1.6.2 Soil Sampling

Each of the 18 soil borings (Figure 2-6) was continuously sampled at 2-foot intervals using a split-spoon. Field samples were then screened for volatile organic compounds using a photoionization detector (PID). The sample with the highest concentration of volatile organic compounds in the soil headspace and the sample located at the groundwater interface were collected as laboratory samples and analyzed for DRO, RRO, GRO, BTEX, PCBs, lead, zinc, chromium, and TOC. Photos of soil boring locations are provided in Appendix C.

DRO was detected in 24 of 36 soil samples at concentrations above the ADEC Method Two cleanup level, ranging from 380 to 51,000 mg/kg (Table 2-7). GRO and RRO were not detected above Method Two cleanup levels. Other analytes detected above Method Two cleanup levels include benzene (five samples), chromium (one sample), and naphthalene (two samples). TOC ranged from 0.04 to 16.5 percent. No PCBs were detected above the Method Two cleanup level. At this site, these soil samples included samples from near the surface to 26 feet bgs.

Lithologic cross-sections are presented in Figures 2-7 to 2-9. Soil classifications are based on field observations.

Geotechnical laboratory test reports are included in Appendix I.

Table 2-7
Sites 13, 15, 19, 20, and 27 (Site 88) Results, Regulatory Exceedences

Sample Location	Sample Identification	Sample Depth (ft. bgs)	DRO	GRO	RRO	Benzene	Naphthalene	Chromium
Soil (mg/kg)								
MW 88-1	01NE88SB001	15.5-17.5	**5,000**	19	39 VJ	ND(0.012)	0.0022 VJ	6.5
MW 88-1	01NE88SB002	17.5-20	**1,400**	4.9	16	ND(0.011)	0.00038 VJ	4.38
MW 88-3	01NE88SB006	16-18	**3,700**	51	24	**ND(0.021) VJ**	1.5	13.1
MW 88-4	01NE88SB007	9-11	**12,000**	44	3,700	**0.047**	5.9 VHB	17.3
MW 88-4	01NE88SB008	11-13	**2,600**	54	16 VJ	ND(0.018)	2.3	3.73
MW 88-5	01NE88SB009	1-3	**380**	ND(2.8)	3,400	ND(0.012)	0.0041 VJ	**42.3**
MW 88-6	01NE88SB011	7-9	**3,100**	130 VHB	23 VJ	ND(0.012)	4.1	12.8
MW 88-6	01NE88SB012	11-13	**1,200**	83 VHB	30 VJ	ND(0.012)	1.1	8.3
MW 88-7	01NE88SB013	7-9	**12,000**	140 VHB	50 VJ	ND(0.012)	7.9	17
MW 88-7	01NE88SB014	11-13	**9,200**	130 VHB	54 VJ	ND(0.011)	8.4	11.6
MW 88-8	01NE88SB015	10-12	**5,200**	68 VHB	11 VJ	ND(0.018)	3.3	9.63
MW 88-8	01NE88SB016	14-16	**2,300**	73 VHB	7.4 VJ	ND(0.018)	2.3	8.34
MW 88-10	01NE88SB019	22-24	**1,400**	31	ND (110)	ND(0.015)	0.48	10
MW 88-10	01NE88SB020	24-26	**750**	19	ND (110)	ND(0.015)	0.11	4.8
SB 88-11	01NE88SB021	3-5	**13,000**	70	5,100	**0.12**	12	16.5
SB 88-11	01NE88SB022	7-9	**51,000**	99	6,000	**0.19**	**81**	23.7
SB 88-13	01NE88SB025	6-8	**430**	11 VJ	4,600	**0.37**	0.042	16.5
SB 88-14	01NE88SB027	2-4	**47,000**	220 VHB	3,000	0.019	**79**	22.7
SB 88-14	01NE88SB028	12-14	210	62	900	**0.024**	0.041	22.8
SB 88-16	01NE88SB031	6-8	**16,000**	110 VHB	33 VJ	ND(0.015)	**28**	15.6
SB 88-16	01NE88SB032	10-12	**4,200**	60 VHB	12 VJ	ND(0.017)	0.9 VLB	6.7
SB 88-17	01NE88SB033	8-10	**4,700**	130 VHB	450	ND(0.013)	12	18.2
SB 88-17	01NE88SB034	12-14	**4,300**	140 VHB	110 VJ	ND(0.012)	3.6	8.31
SB 88-18	01NE88SB035	8-10	**7,300**	100 VHB	24 VJ	0.018 VHB	10	14

Table 2-7
Sites 13, 15, 19, 20, and 27 (Site 88) Results, Regulatory Exceedences
(continued)

Sample Location	Sample Identification	Sample Depth (ft. bgs)	DRO	GRO	RRO	Benzene	Naphthalene	Chromium
SB 88-18	01NE88SB036	10-12	**4,000 VJ**	170 VHB	220	**0.062 VJ**	6.9 VJ	16.7 VJ
ADEC Method Two Cleanup Level			250	300	11,000	0.02	21	26
Groundwater (mg/L)								
MW 88-2	01NE88GW002	N/A	0.71	ND (0.05)	**1.3**	0.00092	NA	NA
MW 88-3	01NE88GW003	N/A	**34**	0.42	0.22	0.00057	NA	NA
MW 88-4	01NE88GW004	N/A	**72**	1.2	**1.9**	**0.03**	NA	NA
MW 88-5	01NE88GW005	N/A	**9.8**	**1.3**	**2.3**	**0.019**	NA	NA
MW 88-6	01NE88GW006	N/A	**69**	1.1	**2.1**	0.00074	NA	NA
MW 88-7	01NE88GW007	N/A	**6.1 VLB**	**1.5**	0.32	**0.014**	NA	NA
MW 88-8	01NE88GW008	N/A	**20**	0.52	0.18 VJ	0.00012 VJ	NA	NA
MW 88-10	01NE88GW010	N/A	**55**	0.12	**1.3**	0.0027	NA	NA
ADEC Table C Cleanup Level			1.5	1.3	1.1	0.005	0.07	0.1

Key:

Bold indicates concentration exceeds cleanup level.

ADEC = Alaska Department of Environmental Conservation
DRO = diesel range organics
ft. bgs = feet below ground surface
GRO = gasoline range organics
GW = groundwater
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
MW = monitoring well
N/A = not applicable
NA = not analyzed
ND = analyte not detected. Method reporting limit shown in parenthesis
RRO = residual range organics
SB = soil boring
VHB = result biased high
VJ = estimated value
VLB = result is estimated with a low bias

2.1.6.3 Groundwater Sampling

Observed water levels throughout the Northeast Cape site in 2002 were much lower than in previous years, as evidenced by dry ephemeral ponds and streambeds and low water in the Suqitughneq River. Photos of Suqitughneq River showing the low water levels are provided in Appendix C. After installation and development of the monitoring wells, groundwater samples were collected from each well and analyzed for DRO, RRO, GRO, BTEX, alkalinity, sulfate, methane, ethane, and ethene. Most monitoring wells became dry during sampling as noted in field logs/forms found in Appendix A. Photos of monitoring wells are provided in Appendix C.

Concentrations of DRO were detected in seven of the 10 monitoring wells at concentrations that exceed the ADEC Table C cleanup level, ranging from 6.1 to 72 mg/L (Table 2-7). RRO was detected in four of 10 monitoring wells at concentrations that exceeded the ADEC Table C cleanup level, ranging from 1.3 to 2.3 mg/L. GRO was detected in two of 10 monitoring wells at concentrations that equaled or exceeded the ADEC Table C cleanup level. Benzene was detected in 3 of 10 monitoring wells at concentrations at or above the Table C cleanup level.

2.1.7 Site 14 – Emergency Power/Operations Building

The Emergency Power/Operations Building, which housed a transformer bank, was located at this site. The site also contained a 5,000-gallon AST formerly used for fuel on the southern perimeter (Figure 2-10). In 1998, total PCBs were detected in surface soil at a concentration of 1.5 mg/kg (Montgomery Watson, 1999).

Objectives of Phase III RI fieldwork at Site 14 were to determine the presence of PCB contamination in surface soil and, if present, to define the extent of the contamination.

In accordance with the Work Plan, a sampling grid was established at the site of suspected PCB contamination in accordance with the protocols described in 40 CFR 761, Subpart N. The sampling grid was three cells long by four cells wide. Each cell was a square measuring 10 feet by 10 feet. A surface soil sample was collected at 0 to 0.5 feet bgs from each grid location using a stainless steel spoon and screened for PCBs in the field using an immunoassay test kit. Photos of the sampling grid are provided in Appendix C. Field screening indicated the presence of PCBs above the detection level of 0.5 mg/kg in seven of 12 samples analyzed. The field screening results are in a unitless numeric colorimetric reading. Negative numbers indicate the presence of PCBs above the field-test-specific numerical criteria, which was 0.5 mg/kg total PCB (wet basis) for this investigation. Positive numbers indicate the absence of total PCBs above 0.5 mg/kg PCB (wet basis). The three soil samples with the highest negative numbers were submitted for laboratory analysis of PCBs to confirm the results obtained during field screening (Figure 2-10).

All three soil samples contained detectable concentrations of the PCB Aroclor™ 1260. The two samples with the highest negative field screening values contained PCBs above the Method Two cleanup level: SS101 at 3.6 mg/kg and SS102 at 19 mg/kg (Table 2-8).

Table 2-8
Site 14 Soil Results, Regulatory Exceedences

Sample Location	Sample Identification	Sample Depth (ft. bgs)	Total PCBs by Immunoassay (colorimetric)	PCB Aroclor-1260 (mg/kg)
SS 101	01NE14SS101	0.5	-0.71	**3.6**
SS 102	01NE14SS102	0.5	-0.85	**19**
SS 103	01NE14SS103	0.5	-0.43	0.2
ADEC Method Two Cleanup Level				1.0

Key:
Bold indicates concentration exceeds cleanup level.
ADEC = Alaska Department of Environmental Conservation
ft. bgs = feet below ground surface
mg/kg = milligrams per kilogram
PCB = polychlorinated biphenyl

Based on these results, it appears that the field screening tests may result in some false-positive results. This is not uncommon.

2.1.8 Site 16 – Paint and Dope Storage Building

2.1.8.1 Background

Site 16 included a Paint and Dope Storage Building, which was a single-room, wood-frame building on the north side of the perimeter access road surrounding the housing and operations complex. One steel AST, presumed to be used for oiling roads, was located on the northern border of the site (Figure 2-11). During the 1994 investigation, PCBs were detected in surface soils at concentrations up to 1.4 mg/kg, and lead was detected in concentrations of up to 822 mg/kg (Montgomery Watson, 2000a). Also, bis-(2-ethylhexyl)phthalate was detected in one groundwater sample (Montgomery Watson, 2000a).

Objectives of Phase III RI fieldwork at Site 16 were to confirm PCB, pesticide, and lead contamination in soil, and bis-(2-ethylhexyl) phthalate contamination in groundwater.

2.1.8.2 Soil Sampling

The following surface soil samples were collected at Site 16 (Figure 2-11):

- 2001 Samples SS165 and SS167 were collected in the vicinity of the 1994 Sample SS159. PCBs and lead were previously detected in Sample SS159 at concentrations of 0.9 and 586 mg/kg, respectively.
- 2001 Samples SS166 and SS168 were collected the vicinity of 1994 Samples SS161 and SS163. PCBs were previously detected in Sample SS163 at a concentration of 1.4 mg/kg and lead was previously detected in Sample SS161 at a concentration of 822 mg/kg.

2001 Samples SS165 and SS166 were analyzed for PCBs and lead. After the initial sample collection, two additional samples (SS167 and SS168), were collected from the same locations and analyzed for pesticides. Photos of sample locations are provided in Appendix C.

No PCBs, pesticides, or lead were detected in the soil samples at concentrations exceeding Method Two cleanup levels (Appendix D).

2.1.8.3 Groundwater Sampling

Groundwater samples were collected from three existing monitoring wells at Site 16 and analyzed for PAHs. Photos of monitoring wells are provided in Appendix C. Bis-(2-ethylhexyl) phthalate was detected in two samples at concentrations below the Table C cleanup level, but was not detected in the sample from MW16-3. No other PAHs were detected above Table C cleanup levels (Appendix D).

2.1.9 Site 21 – Wastewater Treatment Facility

2.1.9.1 Background

Site 21 consists of the Wastewater Treatment System, no longer in operation, which served the Housing and Operations Complex. This facility was located west of the perimeter road and included two side-by-side concrete septic settling tanks (AST 21-1 and AST 21-2) that were approximately 15 feet wide by 50 feet long and 8 feet deep. These settling tanks discharged to a third tank (AST 21-3), perpendicular to ASTs 21-1 and 21-2. The tanks received wastewater from all buildings at the MOC. Effluent from AST 21-3 was discharged via an 8-inch insulated cast iron pipe to a wetland area approximately 450 feet to the west. Sludge samples collected from these tanks in 1999 contained PCBs at concentrations of up to 122 mg/kg, exceeding ADEC and federal regulatory limits (Montgomery Watson, 2000a).

Objectives of Phase III RI fieldwork at Site 21 were to confirm the presence of PCBs and define the extent of PCB contamination adjacent to the tanks and downgradient of the sewage outfall.

2.1.9.2 Soil and Sediment Sampling

In the area adjacent to the septic tanks, three co-located surface and subsurface soil samples were collected (Figure 2-12). Photos of sample locations are provided in Appendix C. One of these samples was collected to confirm PCB results near the location of 1994 Soil Sample SS168, where PCBs were detected at a concentration of 1.92 mg/kg. Two surface soil samples, SS172 and 173, were collected downgradient of the outfall pipe. Soil samples were analyzed for DRO, RRO, GRO, VOCs, PCBs, and metals.

DRO was detected in the surface and subsurface samples at SS/SB169 and SS/SB170, collected near the settling tanks, above the Method Two cleanup level (Table 2-9). Concentrations of DRO were also detected above the Method Two cleanup level in one surface sample located near the outfall pipe (SS173). Arsenic was detected above the Method Two cleanup level in all surface and subsurface samples, ranging from 3 to 14.7 mg/kg. Chromium was detected above

Table 2-9
Site 21 Soil Results, Regulatory Exceedences

Sample Location	Sample Identification	Sample Depth (ft. bgs)	DRO (mg/kg)	Arsenic (mg/kg)	Chromium (mg/kg)
SS/SB 169	01NE21SS169	0.5	**270**	**7.4**	4
SS/SB 169	01NE21SB169	1.5	**640**	**3.0**	**27.4**
SS/SB 170	01NE21SS170	0.5	**380**	**5.9**	2.2
SS/SB 170	01NE21SB170	1.5	**340**	**4.0**	20.5
SS/SB 171	01NE21SS171	0.5	94	**6.1**	**39.8**
SS/SB 171	01NE21SSB71	1.5	ND (5)	**4.3**	**41**
SS 172	01NE21SS172	0.5	140	**11.5**	25
SS 173	01NE21SS173	0.5	**300**	**4.5**	23.2
SW/SD 113	01NE21SD113	0.5	**310**	**12.1**	**36**
SW/SD 114	01NE21SD114	0.5	**310**	**14.7**	**50**
ADEC Method Two Cleanup Level			250	2.0	26

Key:

Bold indicates concentration exceeds cleanup level.

ADEC = Alaska Department of Environmental Conservation
DRO = diesel range organics
ft. bgs = feet below ground surface
mg/kg = milligrams per kilogram
ND = analyte not detected. Method reporting limit shown in parenthesis
SB = soil boring
SD = sediment
SS = surface soil
SW = surface water
WP = well point

the Method Two cleanup level in two surface and one subsurface sample near the septic tanks. PCBs were detected below the Method Two cleanup level in two surface samples, one near the septic tanks and one near the outfall pipe. No other analytes were detected above Method Two cleanup levels.

Two sediment samples were collected; one from each location where a surface water sample was collected near the outfall pipe. Sediment samples were analyzed for DRO, RRO, VOCs, PCBs, and metals.

DRO, arsenic, and chromium were detected in both sediment samples above the Method Two cleanup levels. No other analytes were detected at concentrations exceeding Method Two cleanup levels (Table 2-9).

2.1.9.3 Surface Water Sampling

Two surface water samples were collected from an ephemeral water body downgradient of the outfall pipe. Photos of sample locations are provided in Appendix C. Surface water samples were analyzed for DRO, RRO, GRO, PCBs, and metals.

No DRO or metals were detected at concentrations exceeding Table C cleanup levels (Appendix D). No RRO, GRO, or PCBs were detected.

2.1.10 Site 22 – Water Wells and Water Supply Building

2.1.10.1 Background

Site 22, located adjacent to the MOC (Site 88), consisted of a pumphouse, three water supply wells, and the potable water storage building that held four 20-foot diameter, 26-foot high water tanks and associated piping. The pumphouse and tanks have been removed and the wells were decommissioned in accordance with ADEC procedures in 2001. The former water storage building also contained 150 1-gallon paint cans full of Asbestos Retort Cement and ten 50-pound bags of asbestos cement. All containerized waste has been removed. Only the stem walls of the Water Storage Building remain. The pumphouse contained a diesel-powered engine and pump that were apparently supplied with fuel from a UST located on south side of building. Soil and sediment samples collected in 1994 from areas around the diesel engine, pump, and UST showed areas where concentrations of DRO, antimony, and lead exceeded cleanup standards. Groundwater samples collected in 1994 contained no contaminants at concentrations above regulatory criteria.

The objective of Phase III RI fieldwork was to determine if fuel contamination or evidence of natural attenuation of fuel contamination was present in the potable water wells or soil.

2.1.10.2 Groundwater Sampling

Following removal of the water pumps installed with the system, the three water supply wells were sampled (Figure 2-13). Photos of well sampling are provided in Appendix C. Groundwater samples were analyzed for DRO, RRO, GRO, BTEX, and parameters that are used to evaluate the potential for natural attenuation (i.e., alkalinity, chloride, sulfate, nitrogen, sulfide, chemical oxygen demand, and some metals).

In water supply well 22-2, DRO and RRO were detected (Table 2-10); DRO was below the Table C cleanup level, RRO exceeded the Table C cleanup level. GRO and BTEX were not detected. No petroleum constituents were detected at the two other water supply wells at Site 22.

Table 2-10
Site 22 Groundwater Results, Regulatory Exceedences

Sample Location	Sample Identification	RRO (mg/L)	DRO (mg/L)
Well 22-2	01NE35GW102	**2.8**	1.4
ADEC Table C Cleanup Level		1.1	1.5

Key:
Bold indicates concentration exceeds cleanup level.
ADEC = Alaska Department of Environmental Conservation
GW = groundwater
mg/L = milligrams per liter
RRO = residual range organics

Natural attenuation parameters may be used to determine if natural attenuation of petroleum hydrocarbons is occurring in this area. This determination must be based upon baseline background conditions and the results of several sampling events. Though the wells at Site 22 were decommissioned in 2001, natural attenuation data can be used in the future if sampling from a similar depth occurs.

2.1.10.3 Soil Sampling

In 2002, two soil borings were advanced at Site 22 to evaluate the presence or absence of groundwater and to investigate possible soil contamination at this site (Figure 2-13). Both soil borings were located near a former utilidor north of the former water storage building that was a suspected potential conduit for fuel constituents, based on field observations of contamination inside the building during previous investigations. Photos of soil boring locations are provided in Appendix C. Soil samples were collected continuously from 2-foot intervals using a split-spoon and screened in the field using a PID. The sample with the highest volatile organic concentration in soil headspace as measured by the PID and the sample from the groundwater interface were submitted as laboratory samples and analyzed for DRO, RRO, GRO, BTEX, PCBs, lead, zinc, chromium and TOC.

Soil borings met refusal on a hard rock surface at 32 and 36 feet bgs. No groundwater was encountered. No analytes were detected at concentrations exceeding Method Two cleanup levels in soil samples.

2.1.11 Site 24 – Receiver Building Area

2.1.11.1 Background

The Receiver Building, located approximately 1.5 miles west of the Housing and Operations Complex, consisted of a reinforced concrete building on concrete pillars. All equipment associated with the building was removed and the building was burned; only the concrete shell remained, which is scheduled for removal in 2003-2004. Debris that may be associated with the Receiver Building was reported in an ephemeral surface water body adjacent to the site. The pad on which the building was constructed is likely to consist of approximately 1,000 empty, buried POL drums aligned in rows and covered with gravel. During the Phase II RI, DRO, lead, chromium, and the VOC cis-1,2-dichloroethene were detected at concentrations above soil cleanup standards in soil and sediment samples (Montgomery Watson, 2000a). However, the data was qualified by the laboratory as an estimate, biased high.

Objectives of Phase III RI fieldwork at Site 24 were to inventory the remaining debris and to investigate the presence or absence of contamination in sediment and surface water.

An inventory of the debris on the pad, in the surface water, and in the immediate vicinity of the site was performed and documented in field activity logbooks and with photographs.

2.1.11.2 Surface Water Sampling

One surface water sample was collected at the location of one of the sediment samples (SW114, Figure 2-14). Photos of sample locations are provided in Appendix C. The surface water sample was analyzed for DRO, RRO, GRO, VOCs, PCBs, and metals.

No metals were detected at concentrations exceeding Table C cleanup levels (Appendix D). No DRO, RRO, GRO, VOCs or PCBs were detected at or above the method detection limit.

2.1.11.3 Sediment Sampling

Two sediment samples were collected from suspected contaminated areas (adjacent to submerged debris and stained soil locatedat the edge of the pond. Sediment samples were analyzed for DRO, RRO, GRO, VOCs, PCBs, and metals. Photos of sample locations are provided in Appendix C.

DRO was detected in Sample SD114 above the Method Two cleanup level (Table 2-11). Arsenic and antimony were detected in both sediment samples above the Method Two cleanup level. GRO and PCBs were not detected. No other analytes were detected above Method Two cleanup levels.

Table 2-11
Site 24 Sediment Results, Regulatory Exceedences

Sample Location	Sample Identification	Sample Depth (ft. bgs)	DRO (mg/kg)	Antimony (mg/kg)	Arsenic (mg/kg)
SD 114	01NE24SD114	0.5	**4,600**	**70**	**11**
SD 115	01NE24SD115	0.5	100	**11**	**5.6**
ADEC Table C Cleanup Level			250	3.6	2.0

Key:
Bold indicates concentration exceeds cleanup level.
ADEC = Alaska Department of Environmental Conservation
DRO = diesel range organics
Ft. bgs = feet below ground surface
mg/kg = milligrams per kilogram
SD = sediment

2.1.12 Site 26 – Former Construction Camp Area

2.1.12.1 Background

The former Construction Camp Area is located adjacent to the MOC. It consists of a flat gravel pad area and one former potable water well (No. 4), decommissioned in 2001 (Figure 2-13). No stained soil, structures, debris, or CON/HTW were observed and no fuel contamination was evident during a 1993 site inspection by Ecology and Environment.

The objective of Phase III RI fieldwork was to determine if fuel contamination was present in the potable water well.

2.1.12.2 Groundwater Sampling

The out-of-service water supply well was sampled following removal of the pumphouse by the cleanup contractor, Nugget Construction. There was no pump in the well. Photos of sample locations are provided in Appendix C. Groundwater samples were analyzed for DRO, RRO, GRO, VOCs, and parameters that are used to evaluate the potential for natural attenuation (i.e., alkalinity, chloride, sulfate, nitrogen, sulfide, chemical oxygen demand, and some metals).

No metals were detected at concentrations exceeding Table C cleanup levels (Appendix D). No DRO, RRO, GRO, or VOCs were detected.

2.1.13 Site 28 – Drainage Basin

2.1.13.1 Background

The Drainage Basin receives surface and subsurface flow from Site 10 (Buried Drum Field), Site 11 (Fuel Storage Tank Area), and Sites 13, 15, 19, 20, and 27 at the MOC (Figure 2-15). Diesel fuel releases from Tank 2 at Site 11 and from the Diesel Fuel Pump Island at Site 27 (within the MOC) have impacted the Drainage Basin, which flows to the Suqitughneq River. In addition, PCBs and other petroleum constituents from the Power Plant have entered the Drainage Basin. Surface soil, sediment, and surface water samples collected from the Drainage Basin indicated elevated concentrations of fuel components DRO, RRO and PAHs, metals and PCBs (Montgomery Watson, 1999).

Objectives of Phase III RI fieldwork at Site 28 were to:

- Refine understanding of the distribution of contaminated sediments within the Drainage Basin.
- Assess the contribution of upgradient sites to contamination found in the Drainage Basin.
- Assess the amount of discharge from the Drainage Basin entering the Suqitughneq River to assist in determining remedial alternatives.
- Evaluate concentrations of contaminants present in Drainage Basin vegetation consumed by subsistence users and reindeer and in resident Alaska Blackfish.

2.1.13.2 Surface Water and Sediment Sampling – Main Channel

To assist in characterizing the distribution of contaminants in the middle to lower Drainage Basin, three sets of cross sections were sampled within the main channel of the Drainage Basin (Figure 2-15). Cross section samples are numbered south to north or west to east, depending on orientation. Each set of cross sections consisted of two transects separated by approximately 100 feet. The first set was located near the confluence with the Suqitughneq River (cross sections [CS] 1 and CS 2) to evaluate contaminant flow into the river. The second set was located at a

large area of standing water near the headwaters at Sites 13 and 27 (CS 5 and CS 6). The last set was located approximately midway between the other sets of cross sections (CS 3 and CS 4). Cross sections extended to the high-water mark on either side of stream flow. At each cross section, surface sediment samples were collected from five different locations along the section perpendicular to stream flow. At each cross section, a subsurface sediment sample was collected 12 to 18 inches below the stream bottom to evaluate the depth of contaminated sediments at one of the five locations, for a total of 36 sediment samples. Photos of cross-sections and sample locations are provided in Appendix C. Sediment samples were analyzed for DRO, RRO, PAHs, PCBs, TOC, chromium, zinc, and lead.

One surface water sample was collected at the location of each set of cross sections for a total of three surface water samples. Surface water samples were analyzed for DRO, RRO, and PCBs.

DRO was detected in 29 surface and 3 subsurface sediment samples above the Method Two cleanup level from CS-1 through CS-6 in the main channel, ranging from 280 to 150,000 mg/kg (Table 2-12). Other analytes detected above Method Two cleanup levels include chromium (three samples), 2-methylnaphthalene (five samples), naphthalene (two samples) and RRO (one sample). TOC ranged from 0.55 to 49 percent (Appendix D). The highest level DRO concentration detected at Site 28 (150,000 mg/kg) was from Sample SD132, a sub-surface sample collected at CS-4, midway between the source area and the confluence with the Suqitughneq River.

In the three surface water samples collected, DRO was not detected above the Table C cleanup level; RRO and PCBs were not detected (Appendix D).

Contaminant contours for DRO, PCBs, and chromium at Site 28 are presented in Figures 2-16 through 2-18, respectively. The cross-hatched area identified as 'post release fill' on the figures is an area that is believed to have been filled after the primary fuel release from Site 10 and any contamination present is inferred to extend beneath this fill to the original bank. Contaminant contours were manually generated by extrapolating between sample locations.

2.1.13.3 Surface Water and Sediment Sampling – Outfall from the MOC

To assist in determining the contribution of contaminants from the MOC, and to characterize the extent of contamination, samples were collected across two sets of cross sections (CS-7:CS-8, and CS-9:CS-10) near the outfalls from the manhole that drains from Site 13 and the culvert that drains from Site 27 (Figure 2-15). At each cross section, surface and subsurface sediment samples were collected from three locations perpendicular to stream flow. The subsurface sediment sample was collected from approximately 2 feet below the ground surface to evaluate the depth of contaminated sediment. One subsurface sediment sample could not be collected at CS-9 due to the absence of unconsolidated material. At CS-10 one subsurface sample could not be collected due to refusal at 8 inches bgs. A surface sediment sample was collected at this location instead. A total of 23 sediment samples were collected from these four cross sections. Photos of cross-sections and sample locations are provided in Appendix C. Sediment samples were analyzed for DRO, RRO, PAHs, PCBs, TOC, chromium, zinc, and lead.

Table 2-12
Site 28 Results, Regulatory Exceedences

Sample Location	Sample Identification	Sample Depth (ft. bgs)	DRO	RRO	Chromium	Lead	PCBs[1]	Naphthalene	2-methyl naphthalene
Sediment – Main Channel (mg/kg)									
CS-1	01NE28SD111	0.5	**640**	520 VJ	17	20	ND (0.21)	ND (0.037)	ND(0.037)
CS-1	01NE28SD112	1.5	**610**	1,800 VJ	23.7	14	ND (0.075)	ND (0.014)	0.039
CS-1	01NE28SD113	0.5	180	420 VJ	12	10	ND (0.26) VQQ	ND (0.045)	0.16
CS-1	01NE28SD114	0.5	**680**	3,200 VJ	20	10	ND (0.094)	0.33 VLB	1.4 VLB
CS-1	01NE28SD115	0.5	**360**	1,600 VJ	10	ND(10)	ND (0.23)	1.7	8.7
CS-1	01NE28SD116	0.5	**310**	1,500 VJ	25.7	9	ND (0.053)	0.11	0.21
CS-2	01NE28SD117	0.5	**1,500**	920 VJ	4.4	5	ND (0.061)	ND(0.091)	ND(0.091)
CS-2	01NE28SD118	1.5	**330**	430 VJ	19	9	ND (0.05)	ND(0.012)	ND(0.012)
CS-2	01NE28SD119	0.5	**36,000**	9,000 VJ	**39**	70	0.73	3.9	7.5
CS-2	01NE28SD120	0.5	**480 VLB**	1,000 VLB	13	ND(20)	ND (0.16)	1.6	6.6
CS-2	01NE28SD121	0.5	74	580 VJ	9	ND(10)	ND (0.18)	0.24	0.33
CS-2	01NE28SD122	0.5	**310 VLB**	910 VLB	ND(4)	ND(20)	ND (0.22)	0.024	0.022
CS-3	01NE28SD123	0.5	**1,600 VLB**	1,500 VLB	7	ND(9)	ND (0.24)	1.6	0.32
CS-3	01NE28SD124	0.5	**650**	2,000 VJ	19	ND(8)	ND (0.1)	4.8	7
CS-3	01NE28SD125	1.5	NA	880	18	7	ND (0.067)	3.7	6.5
CS-3	01NE28SD126	0.5	**5,200**	1,200 VJ	9	ND(10)	ND (0.2)	0.61	3.4
CS-3	01NE28SD127	0.5	**3,100**	300 VJ	12	ND(9)	ND (0.14)	3.4	33
CS-3	01NE28SD128	0.5	**15,000**	1,800 VJ	18	13	ND (0.18)	1.6	18
CS-4	01NE28SD129	0.5	**2,500**	660 VJ	5	ND(13)	ND (0.13)	7.4	4.1
CS-4	01NE28SD130	0.5	**14,000**	2,200 VJ	10	20	0.51	3.2	23
CS-4	01NE28SD131	0.5	**56,000**	9,900 VJ	18.6	21	0.3	6.4	33
CS-4	01NE28SD132	1.5	**150,000**	6,900 VJ	19	ND(20)	0.19	14	**53**

Table 2-12 (continued)
Site 28 Results, Regulatory Exceedences

Sample Location	Sample Identification	Sample Depth (ft. bgs)	DRO	RRO	Chromium	Lead	PCBs[1]	Naphthalene	2-methyl naphthalene
Sediment – Main Channel (mg/kg) (cont.)									
CS-4	01NE28SD133	0.5	**4,900**	780 VJ	10	ND(9)	ND (0.15)	0.78	5.9
CS-4	01NE28SD134	0.5	**5,200**	ND(230) VQQ	22	ND(10)	ND (0.15)	1.8	26
CS-5	01NE28SD135	0.5	**1,100**	400 VJ	19.9	4	ND (0.045)	0.093	0.29
CS-5	01NE28SD136	0.5	**40,000**	**13,000 VJ**	**31**	64	0.35	**29**	**78**
CS-5	01NE28SD137	0.5	**560**	2,700 VJ	24	13	ND (0.06)	0.037	0.022
CS-5	01NE28SD138	1.5	170	1,200 VJ	24.6	13	ND (0.065)	ND(0.012)	ND(0.012)
CS-5	01NE28SD139	0.5	**520**	2,300 VJ	22	13	ND (0.078	0.043	0.032
CS-5	01NE28SD140	0.5	**6,900**	1,300 VJ	19	17	ND (0.11)	1.3	0.083
CS-6	01NE28SD141	0.5	**430**	2,200 VJ	21.7	10	ND (0.07)	0.45	0.29
CS-6	01NE28SD142	0.5	**280**	1,100 VJ	22	12	ND (0.078)	0.38	0.67
CS-6	01NE28SD143	0.5	**15,000**	2,300 VJ	**40**	75	ND (0.095)	**49**	**110**
CS-6	01NE28SD144	1.5	**6,700**	2,600 VJ	24	27	ND (0.078)	**34**	**94**
CS-6	01NE28SD145	0.5	**2,500**	3,000	24	17	ND (0.077)	12	32
CS-6	01NE28SD146	0.5	**66,000**	1,900 VJ	24	13	ND (0.095	**220**	**500**
ADEC Method Two Cleanup Level			250	11,000	26	400	1	21	43
Sediment – Outfall from Main Operations Complex (mg/kg)									
CS-7	01NE28SD147	0.5	**11,000**	1,200 VJ	20	24	ND (0.041)	1.2	5.2
CS-7	01NE28SD148	1.5	**14,000**	1,300 VJ	17	14	ND (0.082)	**27**	**59**
CS-7	01NE28SD149	0.5	**19,000**	1,900 VJ	**26.6**	82	0.41	3.2	18
CS-7	01NE28SD150	1.5	**4,600**	1,300 VJ	20.9	22	ND (0.047)	0.61	1
CS-7	01NE28SD151	0.5	**15,000**	1,000 VJ	19.4	21	ND (0.047)	5.6	29
CS-7	01NE28SD152	1.5	**5,700**	1,200 VJ	22.3	22	ND (0.054)	3.4	15
CS-8	01NE28SD153	0.5	**19,000**	2,400 VJ	13.2	32	0.244	1.6	8.9

Table 2-12 (continued)
Site 28 Results, Regulatory Exceedences

Sample Location	Sample Identification	Sample Depth (ft. bgs)	DRO	RRO	Chromium	Lead	PCBs[1]	Naphthalene	2-methyl naphthalene
Sediment – Outfall from Main Operations Complex (mg/kg) (cont.)									
CS-8	01NE28SD154	1.5	**14,000**	2,000 VJ	17.1	30	0.252	2.8	18
CS-8	01NE28SD155	0.5	**88,000**	10,000 VJ	**649**	**4,590**	**2.52**	**160**	**440**
CS-8	01NE28SD156	1.5	**85,000**	**14,000 VJ**	19.9	113	0.75	**130**	**370**
CS-8	01NE28SD157	0.5	**15,000**	ND(2,000)VQQ	25.5	20	ND (0.047)	1	3
CS-8	01NE28SD158	1.5	**3,800**	1,300 VJ	8	12	0.048	18	38
CS-9	01NE28SD159	0.5	**58,000**	ND(10,000)VQQ	**28.2**	46	0.211	7.3	3
CS-9	01NE28SD160	1.5	**71,000**	2,000 VJ	24.5	28	0.063	16	3.4
CS-9	01NE28SD161	0.5	**75,000**	4,000 VJ	**26.8**	36	ND (0.052)	**54**	**260**
CS-9	01NE28SD163	0.5	**56,000**	4,000 VJ	21.4	28	0.253	9.5	2.7
CS-9	01NE28SD164	1.5	**59,000**	1,600 VJ	21.4	22	ND (0.047)	14	31
CS-10	01NE28SD165	0.5	120	620 VJ	**27.4**	61	0.151	ND(0.0088)	ND(0.0088)
CS-10	01NE28SD166	1.5	65	240 VJ	**30.1**	18	ND (0.044)	ND(0.0077)	ND(0.0071)
CS-10	01NE28SD167	0.5	**17,000**	10,000 VJ	**57.1**	219	**5.43 VLB**	ND(1.2)	ND(1.2)
CS-10	01NE28SD168	1.5	**8,200**	3,000 VJ	24.4	57	0.68	4.9	13
CS-10	01NE28SD169	0.5	**54,000**	6,300 VJ	**27.1**	48	0.435	9.9	38
CS-10	01NE28SD170	0.5	**60,000**	6,900 VJ	24.9	36	0.541	14	**51**
ADEC Method Two Cleanup Level			250	11,000	26	400	1	21	43
Sediment – Outfall from Sites 10 and 11 (mg/kg)									
CS-11	01NE28SD171	0.5	**2,200**	4,200 VJ	9	ND(20)	ND (0.25)	ND(0.045)	ND(0.045)
CS-11	01NE28SD172	0.5	**5,700**	360 VJ	156	30	ND (0.29) VQQ	ND(4.2)	ND(4.2)
CS-11	01NE28SD173	0.5	**1,600**	2,100 VJ	**29**	22	ND (0.12)	2	1.4
CS-11	01NE28SD174	1.5	**950**	2,000 VJ	**26.1**	14	ND (0.071)	0.33	0.66
CS-11	01NE28SD175	0.5	**280 VLB**	1,200 VJ	14	30	ND (0.18)	ND(0.033)	ND(0.033)

Table 2-12 (continued)
Site 28 Results, Regulatory Exceedences

Sample Location	Sample Identification	Sample Depth (ft. bgs)	DRO	RRO	Chromium	Lead	PCBs[1]	Naphthalene	2-methyl naphthalene
CS-12	01NE28SD176	0.5	**790 VLB**	1,400 VJ	12	20	ND (0.29)	ND(0.052)	ND(0.052)
CS-12	01NE28SD177	0.5	**12,000**	1,200 VJ	20	39	ND (0.12)	ND(1.7)	ND(1.7)
CS-12	01NE28SD178	0.5	**45,000**	2,200 VJ	21	33	ND (0.11)	ND(3.1)	ND(3.1)
CS-12	01NE28SD179	0.5	**9,600**	1,300 VJ	14.4	24	ND (0.043)	ND(1.2)	ND(1.2)
CS-12	01NE28SD180	1.5	**8,900**	1,900 VJ	**31.3**	42	ND (0.074)	ND(1.1)	ND(1.1)
CS-12	01NE28SD181	0.5	**4,100**	1,700 VJ	19	30	ND (0.047)	ND(1.4)	ND(1.4)
CS-12	01NE28SD182	0.5	**1,400**	2,100 VJ	21	39	ND (0.11)	ND(0.068)	ND(0.068)
ADEC Method Two Cleanup Level			250	11,000	26	400		21	43
Surface Water (mg/L)									
CS-7	01NE28SW114	NA	**2.3**	ND(0.5) VQQ	NA	NA	ND (0.001)	NA	NA
ADEC Table C Cleanup Levels			1.5	1.1	0.005	0.015	0.0005	1.46	1.5

Key:

Bold indicates concentration exceeds cleanup level.
[1]PCBs include combination of Aroclors™–1242, -1254, and -1260
ADEC = Alaska Department of Environmental Conservation
CS = cross section
DRO = diesel range organics
ft. bgs = feet below ground surface
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
NA = not analyzed
ND = analyte not detected. Method reporting limit shown in parenthesis
RRO = residual range organics
SD = sediment
SW = surface water
VJ = estimated value
VLB = result is estimated with a low bias
VQQ = practical quantitation limit is estimated
WP = well point

One surface water sample was collected from each set of cross sections, for a total of two surface water samples. Surface water samples were analyzed for DRO, RRO, and PCBs.

DRO was detected in 12 surface and 9 subsurface samples above the Method Two cleanup level from CS 7 through CS-10 at the outfalls from the MOC, ranging from 4,600 to 88,000 mg/kg (Table 2-12). Other analytes detected above Method Two cleanup levels include: chromium (eight samples), lead (one sample), 2-methylnaphthalene (five samples), naphthalene (three samples), PCBs (two samples), and RRO (one sample). Sample SD155 had lead at 4,590 mg/kg and chromium at 649 mg/kg, the highest concentrations for these metals in the Drainage Basin. The only PCB exceedences were located in these cross sections. TOC ranged from 1.3 to 15 percent (Appendix D).

After the initial samples were collected in August 2001, additional surface and subsurface samples were collected in September 2001 and analyzed for pesticides. These additional samples were collected based on laboratory results from August 2001 sampling that showed possible pesticide peaks during PCB analysis. Five additional sediment samples, SD183 through SD187, were collected from CS-8, two at the surface and three subsurface. Two additional samples, SD188 and 189, were collected from the surface at either end of CS-11 and three surface samples, SD190 through SD192, were collected from the surface at CS-7, 9, and 10 at the center of the cross section. Sample locations SD183-187 correlate with samples SD153-158 and sample locations SD171 and 176 correlate to samples SD189 and 188. Samples SD190-192 do not directly correlate to previous sample locations.

The primary pesticide detected was 4,4'-DDD, which was detected in six of the eight samples below the Method Two cleanup level (Appendix D). Other pesticides detected include beta-BHC, Heptachlor, endosulfan sulfate, and Lindane.

In the two surface water samples, DRO was detected above the Table C cleanup level in Sample SW114; no RRO or PCBs were detected (Table 2-12).

2.1.13.4 Surface Water and Sediment Sampling – Outfall from Sites 10 and 11

To assist in determining the contribution of contaminants from Sites 10 and 11, and to characterize the extent of contamination, two cross sections were sampled (CS-11 and CS-12). The cross sections were located approximately 100 feet and 300 feet downgradient from the toe of the slope below Site 10 (Figures 1-3 and 2-1). At each cross section, surface sediment samples were collected from five locations perpendicular to flow. At each cross section, a subsurface sample was collected at one of the locations from approximately 2 feet bgs to evaluate the depth of contaminated sediments. A total of 12 sediment samples were collected from CS-11 and CS-12. Photos of cross-sections and sample locations are provided in Appendix C. Sediment samples were analyzed DRO, RRO, PAHs, PCBs, pesticides, TOC, chromium, zinc, and lead.

DRO was detected in all 10 surface and both subsurface sediment samples above the Method Two cleanup level, ranging from 280 to 45,000 mg/kg (Table 2-12). Chromium was detected in three samples above the Method Two cleanup level. TOC ranged from 3.4 to 43 percent (Appendix D).

Surface water sample 28SW11 was collected from CS-11 and analyzed for DRO, RRO, and PCBs. None of the analytes were detected above Table C cleanup levels.

After the initial samples were collected, two additional surface sediment samples were collected from either end of CS 11 and analyzed for pesticides (SD188 and SD189). These additional samples were collected based laboratory results from 2001 sampling that showed possible pesticide peaks during PCB analyses. No pesticides were detected in either sample.

2.1.13.5 Biological Sampling

To investigate contaminant concentrations in vegetation and fish, samples were collected throughout the Drainage Basin. Seventeen plant tissue samples representing 15 different species were collected from five areas within the Drainage Basin (Figure 2-19). Samples of three plant species were collected from a reference location upgradient of the Drainage Basin, on the east side of Cargo Beach Road.

Targeted plant species included berries and greens utilized as food sources for human consumption, and willows and lichens upon which reindeer graze (Table 2-13). A species of rye grass representing the dominant species in the Drainage Basin was also collected based on input from the ADEC. Whole plant samples, including roots, flowers, and fruits (except for berries which were analyzed separately), were collected and submitted for analysis as whole plant samples. Samples were accompanied by specific handling instructions such as "Plant roots are to be free from soil before sample preparation has begun". Sample handling instructions are included in Appendix B. The identity of the plants and their use as a subsistence food source was verified by Herman Toolie, Sr., a Native Elder from Savoonga. Each plant species was classified by an experienced taxonomist following sample collection. Plant tissue samples were submitted for analysis of PAHs, PCBs, and metals.

Selected analyte ranges detected in plant samples include the following:

- Arsenic – 0.06 to 2.38 mg/kg
- Chromium – 0.12 to 77.5 mg/kg
- Lead – 0.065 to 11.3 mg/kg
- PCB Aroclor™ 1254 – 0.0049 to 9.3 mg/kg
- PCB Aroclor™ 1260 – 0.0049 to 0.92 mg/kg

Plant sample PT5101 (Figure 2-19) had the highest concentrations of nearly all analytes in all samples. This genus of lichen, *Stereocaulon,* is consumed by reindeer. This result might be due to the absorption characteristics of lichen over their life span, or a highly localized point-source contamination.

Alaska blackfish were the only fish species targeted for sampling in the Drainage Basin (Figure 2-24) in order to assess toxicity and to compare with results from previous sampling. Three small Dolly Varden were caught in a trap in the lower reaches of the Drainage Basin and released. It has been observed that the input of the Drainage Basin to the Suqitughneq River is largely sub-surface in nature, as the amount of surface flow does not appear equal to the input

Table 2-13
Plant Sampling – Cross Reference to Field Identification, July 25, 2001

Plant Number	Purpose	Description	Native Name (Common Name)	Location	Reference Number	Sample Identification	Remarks[1]
1	R	Lichen, white fuzzy	Mulck	PT 5	PT 5-1	01 NE 28 PT 5 101	
2	R	Lichen, yellow	Mulck	PT 3	PT 3-2	01 NE 28 PT 3 101	
3	R	Lichen, white, straw like	Mulck	PT 3	PT 3-3	01 NE 28 PT 3 102	
4	R & H	Bush, low woody willow, green leaves	Ququnqaq or Uqfigaq (Chamiso's Willow)	PT 5	PT 5-4	01 NE 28 PT 5 106	Leaves eaten
5	R	Moss, green		PT 1	PT 1-5	01 NE 28 PT 1 101	
6	R	Moss, very bright green		PT 4	PT 4-6	01 NE 28 PT 4 101	
7	R	Flowers, pink	(Langsdorf's Lousewort)	PT 2	PT 2-7	01 NE 28 PT 2 101	
8	R	Flowers, blue	(Tall Jacob's Ladder)	PT 3	PT 3-8	01 NE 28 PT 3 103	
9	R	Flowers, yellow, daisy	(Lessing's Leopardbane)	PT 5	PT 5-9	01 NE 28 PT 5 102	
10	R	Lichen, black on rocks	Mulck	PT 5	PT 5-10	01 NE 28 PT 5 103	
11	H	Bush, very low willow, green leaves, fluffy flowers	(Diamond-leaf willow)	PT 2	PT 2-11	01 NE 28 PT 2 102	Leaves eaten
12	H	Greens, succulent	Nunivak (Leaf Roseroot)	PT 5	PT 5-12	01 NE 28 PT 5 104	
13	H	Greens, cactus-like	Kitmmik (White Arctic Mountain Heather)	PT 5	PT 5-13	01 NE 28 PT 5 105	Greens eaten
14	H	Flower, fuchsia	Angukaq	Not found			Leaves used
15	H	Greens, spinach-like, with red stack	Allqeggkaq	Not found			Leaves cooked, juice from stock (Napazio)
16	G	Grass, Rye 1		PT 1	PT 1-16	01 NE 28 PT 1 102	
17	G	Grass, Rye 2		PT 3	PT 3-17	01 NE 28 PT 3 104	
18	G	Grass, Rye 3		PT 4	PT 4-18	01 NE 28 PT 4 102	
19	RF	Lichen, white		PT 6	PT 6-19	01 NE 28 PT 6 101	RF to PT 5-1
20	RF	Bush, low woody willow, green leaves		PT 6	PT 6-20	01 NE 28 PT 6 102	RF to PT 5-4
21	RF	Greens, succulent		PT 6	PT 6-21	01 NE 28 PT 6 103	RF to PT 5-12
QC		QC Sample	See 01NE28PT104			01 NE 28 PT 5 204	
22	H	Berries, black	Kavlak	Unable to collect edible sample during field visits			
23	H	Berries, crow	Ququnghaq (Black Crowberry)	PT 5	PT 5-23	01 NE 28 PT 5 107	Sampled 8-20-01
24	H	Berries, salmon	Aqavzik	Unable to collect edible sample during field visits			
25	H	Greens, dry	Ahaqukak	Not found			Collected in dry river beds

Key:

[1]All samples submitted to laboratory for analysis of polynuclear aromatic hydrocarbons, polychlorinated biphenyls, and metals.

G = rye grass
H = human use
PT = plant tissue sample
QC = quality control sample
R = reindeer food
RF = reference sample

calculated in Section 2.1.14.3. This is especially evident during dry years. Therefore, it is believed that there are no subsistence resource fish species that use the Drainage Basin. Data from blackfish sampling was incorporated into the Ecological Risk Assessment, because they represent a possible food source for other ecological receptors in the area. Blackfish data were not incorporated into the Human Health Risk Assessment because they are not consumed by humans. Each blackfish tissue sample consisted of 6 to 10 individual fish from the same pool, which were composited to achieve the volume required for analysis. Fish tissue samples were submitted for analysis of PAHs, PCBs, metals, and total lipids.

Selected analyte ranges detected in blackfish samples include the following:

- Arsenic – 0.06 to 0.08 mg/kg
- Lead – 0.011 to 0.028 mg/kg
- PCB Aroclor™ 1260 – 0.06 to 0.14 mg/kg

Analysis of plant and blackfish tissue samples was performed to provide data for the Human Health and Ecological Risk Assessments. There are currently no ADEC-approved cleanup standards or toxicity benchmarks for these media. A detailed evaluation of plant and fish toxicity and their relation to human health will be included in the Northeast Cape Human Health and Ecological Risk Assessment, which will be released at a later date.

2.1.14 Site 29 – Suqitughneq River

2.1.14.1 Background

The Suqitughneq River receives flow from The East Tributary, the Drainage Basin (Site 28), and the West Tributary. Fish tissue samples collected from the Suqitughneq River in 1999 indicated elevated concentrations of PCBs (Montgomery Watson, 1999).

Objectives of Phase III RI fieldwork at Site 29 were to define the distribution of contaminated surface water and sediments within the Suqitughneq River and to determine concentrations of contaminants present in fish species consumed by subsistence users.

2.1.14.2 Surface Water and Sediment Sampling

Four cross sections were sampled within the Suqitughneq River. SC-1 was located in the vicinity of the 1996 Sample SW/SD-111, where 25,000 mg/kg DRO was detected in sediment (Figure 2-20) SC-2 through SC-4 were located in depositional areas and areas where fish might congregate such as pools and eddies. At each cross section, surface sediment samples were collected at three locations along a cross section perpendicular to the stream flow. Four additional surface sediment samples were also collected from the Suqitughneq River. SD-128 and SD-129 were from the lagoon estuary at the mouth of the Suqitughneq River, and SD-126 and SD127 were from upgradient of the East Tributary. Photos of cross-sections and sample locations are provided in Appendix C. Sediment samples were analyzed for DRO, RRO, PAHs, PCBs, chromium, zinc, and lead. One surface water sample was collected at the location of each cross section and analyzed for DRO, RRO, VOCs and PCBs.

DRO was detected in Samples SC-1 and SC-4 above the Method Two cleanup level, both downgradient of the Drainage Basin (Table 2-14). Arsenic was detected in the four additional sediment samples above the Method Two cleanup level along the entire length of the Suqitughneq River. No PCBs were detected.

Table 2-14
Site 29 Sediment Results, Regulatory Exceedences

Sample Location	Sample Identification	DRO (mg/kg)	Arsenic (mg/kg)
SC-1	01NE29SD114	**410**	NA
SC-4	01NE29SD124	**1,400**	NA
SD-126	01NE29SD126	240	**3.3**
SD-127	01NE29SD127	59	**5.7**
SD-128	01NE29SD128	180	**4.8**
SD-129	01NE29SD129	15	**2.8**
ADEC Method Two Cleanup Level		250	2.0

Key:

Bold indicates concentration exceeds cleanup level.

ADEC = Alaska Department of Environmental Conservation
DRO = diesel range organics
mg/kg = milligrams per kilogram
NA = not analyzed
SC = Suqitughneq River cross section
SD = sediment

In the four surface water samples, no metals were detected above Table C cleanup levels, and no DRO, RRO, VOCs, or PCBs were detected (Appendix D).

2.1.14.3 Contribution to Suqitughneq River

To determine the contribution made by the Drainage Basin to the Suqitughneq River, flow was measured at two locations along the Suqitughneq River in 2001 and 2002: one immediately upstream of the Drainage Basin confluence, and the second one immediately downstream of the confluence (Figure 2-21). Photos of streamflow measurement locations are provided in Appendix C.The flow was measured by profiling the cross sectional area of the streambed and measuring the average stream velocity. Stream cross sections and velocity and flow calculations are presented in Figures 2-22 and 2-23.

Profiling the streambed consisted of measuring the cross sectional area of the Suqitughneq River at the two selected locations. The velocity of flow was measured using a Flo-Mate™ Model 2000 Portable Flow Meter (manufactured by Marsh-McBirney, Inc.). The mean flow velocity was calculated using the ".2, .4, .8 Method" described in the Marsh-McBirney, Inc., *Open Channel Profiling Handbook.*

In August 2001, the stream discharge was 4.92 cubic feet per second (cfs) at the upgradient cross section. For the downgradient cross section, the stream discharge was 8.35 cfs. The difference

between these stream discharge numbers is 3.43 cfs, which is assumed to be the total contribution from the Drainage Basin. This measurement indicates the Drainage Basin contribution comprises 41 percent of total Suqitughneq River flow.

In August 2002, the stream discharge was 1.46 cfs at the upgradient cross section and 2.55 cfs for the downgradient cross section. The difference between these stream discharge numbers is 1.09 cfs, which is assumed to be the total contribution from the Drainage Basin. This measurement indicates the Drainage Basin contribution comprises 43 percent of total Suqitughneq River flow, similar to that found in 2001.

2.1.14.4 Biological Sampling

Fish samples were collected from the lagoon/estuary downstream of the Airport Road Bridge; this was the only location where anadromous Dolly Varden within the desired size range could be caught (Figure 2-24). Eight Dolly Varden were collected from the Suqitughneq River. The fish were submitted to the laboratory as frozen, whole fish samples. Because subsistence users consume fish heads, eggs, and filets, the fish were subdivided in the laboratory for analysis. Fish tissue samples were analyzed for PAHs, PCBs, selected metals, and total lipids.

Selected analyte ranges detected in Dolly Varden include the following:

- Egg Samples – PCB Aroclor™ 1254 (0.0077 to 0.013 mg/kg)
- Head Samples – PCB Aroclor™ 1254 (0.023 to 0.03 mg/kg) and lead (0.007 to 0.011 mg/kg)
- Fillet Samples – PCB Aroclor™ 1254 (0.0061 to 0.015 mg/kg) and lead (0.003 to 0.012 mg/kg)
- Remains – PCB Aroclor™ 1254 (0.015 to 0.018) and lead (0.003 to 0.007 mg/kg)

Analysis of fish tissue samples was performed to provide data for the Human Health Risk Assessment. There are currently no ADEC-approved cleanup standards or toxicity benchmarks for this media. A detailed evaluation of fish toxicity and its relation to human health will be included in the Northeast Cape Human Health and Ecological Risk Assessment, which will be released at a later date.

2.1.15 Site 30 – Background/Reference Areas

The presence of naturally occurring organic and inorganic materials is well documented throughout the state of Alaska. The volcanic nature of the geology of St. Lawrence Island suggests that many analytes, especially metals, detected during investigations at St. Lawrence Island may represent ambient concentrations of these analytes and are not associated with any human activity on the island. For the purposes of characterization, all analytes are compared to regulatory criteria regardless of background concentrations. Samples identified as background or reference during Phase III investigation are believed to represent biological and environmental media that have either not been impacted or have been minimally impacted by site activities. These samples, however, do not represent a comprehensive, statistically generated analysis of background conditions at the installation.

Samples were collected from several locations at Northeast Cape during previous investigations. Seven tundra soil samples, one background gravel soil sample, five co-located surface water and sediment sample sets, and one background groundwater sample were collected during previous site investigation work (Montgomery Watson, 1999).

The objectives of the Phase III field work in the background areas at Northeast Cape were to collect additional soil, sediment, groundwater, plant tissue, and fish tissue samples for evaluating the installation data (Figure 2-25).

Because the soil within many of the Northeast Cape gravel pads has been contaminated, reference gravel soil sample SS102 was collected from 12 to 18 inches bgs at the gravel borrow area, used as the source for building pads and covering landfills. Concentrations of selected analytes detected in this sample are presented in Table 2-15.

Two background tundra soil samples and one background sediment sample were collected. Soil Sample SS101 was collected approximately 150 feet from the southwest end of the runway and Soil Sample SS103 was collected from south of the roadbed to the west of the majority of the installation buildings. Sediment Sample SD101 was collected from the west tributary of the Suqitughneq River. Photos of sample locations are provided in Appendix C. Sediment samples were analyzed for DRO, RRO, PAHs, and metals. Concentrations of selected analytes detected in these samples are presented in Table 2-15.

Table 2-15
Site 30, Concentrations of Selected Analytes in Reference Samples

Sample Location	Sample Identification	Sample Depth (ft. bgs)	DRO	RRO	Arsenic	Chromium	Lead
Soil (mg/kg)							
SS101	01NE30SS101	1.5	390	2,300	5.3	31	15
SS102[1]	01NE30SS102	0.5	11	21	4.4	52.1	28
SS103	01NE30SS103	0.5	170	1,200	ND(2)	ND(3)	ND(10)
SD101	01NE30SD101	0.5	84	270	19.8	30	59
Groundwater (mg/L)							
WP101	01NE30WP101	N/A	2.0	6.9	0.007	0.03	0.007
WP102	01NE30WP102	N/A	ND(0.25)	ND(0.5)VQQ	0.003	0.003	0.002

Key:
[1]Gravel sample collected 12 to 18 inches below ground surface.
DRO = diesel range organics
ft. bgs = feet below ground surface
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
N/A = not applicable
RRO = residual range organics
SD = sediment
SS = surface soil
VQQ = practical quantitation limit is estimated
WP = well point

Two well points were installed and sampled to assess shallow groundwater conditions away from site activities. Both were installed east of Cargo Beach Road: WP101 due south of Site 3 and WP102 between the road and the Suqitughneq River. Photos of well points are provided in Appendix C.Groundwater samples were analyzed for DRO, GRO, RRO, PAHs, VOCs, and metals. Concentrations of selected analytes detected in these samples are presented in Table 2-15.

Reference vegetation samples PT6101, PT6102, and PT6103 were collected from an area upgradient of the drainage basin on the east side of Cargo Beach Road (Figure 2-19). Plant samples were analyzed for PAHs, PCBs, and metals. Reference plant samples contained concentrations of metals, PAHs, and PCBs similar to those found in primary samples (Appendix D).

Background fish samples were collected from the Tapisaghak River, approximately 3 miles east of the Suqitughneq River. Four Dolly Varden and two pink salmon were collected (Figure 2-24). Although pink salmon were not a targeted species, they were inadvertently caught along with the Dolly Varden and submitted for laboratory analysis. Samples were separated into eggs, head, fillet, and remains as the primary samples were. Fish tissue samples were analyzed for PAHs, PCBs, and metals. Background fish samples contained concentrations of metals and PCBs similar to those found in primary samples (Appendix D).

Analysis of plant and fish tissue samples was performed to provide data for the Human Health and Ecological Risk Assessments. There are currently no ADEC-approved cleanup standards or toxicity benchmarks for these media. A detailed evaluation of plant and fish toxicity and their relation to human health will be included in the Northeast Cape Human Health and Ecological Risk Assessment, which will be released at a later date.

2.1.16 Site 31 – White Alice Site

2.1.16.1 Background

The White Alice Site is located at the base of Mt. Kangukhsam. The site consists of an array of four antennae, the Main Electronics Center (Building 1001), the Automobile Maintenance Shop (Building 1055), a storage shed, and seven ASTs (six outside and one inside Building 1001 – Figure 2-26). An ephemeral stream called the East Tributary drains from Sites 31 and 32 to the Suqitughneq River (Figure 1-3). Previous work at this site included a tank survey, asbestos survey and sampling effort, and removal of hazardous waste. PCBs were detected on the concrete transformer pad located adjacent to Building 1001 and in soil surrounding the concrete transformer pad at concentrations of up to 1.7 mg/kg (URS, 1992).

Objectives of Phase III RI fieldwork at the White Alice Site were to confirm the detection of PCBs in surface soils during previous investigations, characterize the extent of PCB contamination, identify any soil contamination associated with the diesel fuel stored in ASTs at the antennae and POL storage area, and evaluate whether contaminants have migrated to the East Tributary.

2.1.16.2 Surface Soil Sampling for PCB at the Transformer Pad

Twelve surface soil samples were collected from around a previously existing grid at the concrete transformer pad at Building 1001 and field-screened for PCBs using an immunoassay test kit. The sampling grid was three cells long by six cells wide. Each cell was 10 feet squared. Of the 12 screening samples, ten indicated the presence of PCBs above the action level of 0.5 mg/kg. Four surface soil samples, SS101 through SS104, were collected from the areas with the highest immunoassay test results for laboratory analysis for DRO, RRO, PCBs, and pesticides. Photos of sample locations are provided in Appendix C.

DRO and RRO were detected below Method Two cleanup levels in each of the four surface soil samples (Figure 2-26). The PCB Aroclor™ 1260 was detected in all four surface soil samples at concentrations above the Method Two cleanup level. No other PCBs or pesticides were detected.

2.1.16.3 AST and POL Storage Area Soil Sampling

At each of the four fuel ASTs located adjacent to the four antennae, two co-located surface and subsurface soil sample were collected (Figure 2-26). Photos of sample locations are provided in Appendix C. Subsurface soil samples were collected from 2 feet bgs. Surface and subsurface soil samples were analyzed for DRO and RRO.

At Antennae 1, 2, and 3, DRO was detected in all surface and subsurface samples (SS105 to SS110) at concentrations above the Method Two cleanup level, ranging from 310 to 3,400 mg/kg (Table 2-16). RRO was not detected in any soil samples collected at Antennae 1, 2, and 3. At Antenna 4, DRO and RRO were detected in both surface and subsurface samples (SS111 and SS112) at concentrations below the Method Two cleanup level.

Eight soil samples were collected near the ASTs in the POL storage area/tank impoundment. Two co-located surface and subsurface soil samples were collected (SS113 through SS120) at each of four locations (Figure 2-26). Photos of sample locations are provided in Appendix C. Soil samples were analyzed for DRO and RRO.

DRO was detected in all surface and subsurface samples SS113 through SS120 above the Method Two cleanup level, ranging from 380 to 3,000 mg/kg. RRO was detected in subsurface sample SS120 at the Method Two cleanup level (Table 2-16).

Reference surface soil sample SS125 was collected from an area upgradient of the White Alice Site believed to be unaffected by site activities and analyzed for DRO and RRO. DRO was detected at 64 mg/kg and RRO was detected at 210 mg/kg. PCBs were not detected.

2.1.16.4 Surface Water Sampling

Surface water samples SW101 and SW102 were collected from the East Tributary at locations downgradient from the White Alice Site (Figures 2-26 and 2-27). Photos of sample locations are provided in Appendix C. Surface water samples were analyzed for DRO, RRO, VOCs, PAHs, and metals.

Table 2-16
Site 31 Results, Regulatory Exceedences

Sample Location	Sample Identification	Sample Depth (ft. bgs)	DRO (mg/kg)	RRO (mg/kg)	Total PCBs by Immunoassay (colorimetric)	PCB Aroclor™ 1260 (mg/kg)
SS101	01NE31SS101	0.5	11	33	-0.31	**6.7**
SS102	01NE31SS102	0.5	25	95	+0.14	**4.7**
SS103	01NE31SS103	0.5	18	62	-0.46	**4.1**
SS104	01NE31SS104	0.5	49	140	+0.01	**4.4**
SS105	01NE31SS105	0.5	**3,400**	ND(500)VQQ	NA	NA
SS106	01NE31SS106	1.5	**620**	ND(100)VQQ	NA	NA
SS107	01NE31SS107	0.5	**690**	ND(100)VQQ	NA	NA
SS108	01NE31SS108	1.5	**550**	ND(50)VQQ	NA	NA
SS109	01NE31SS109	0.5	**470**	ND(50)VQQ	NA	NA
SS110	01NE31SS110	1.5	**310**	ND(40)VQQ	NA	NA
SS113	01NE31SS113	0.5	**640**	ND(100)VQQ	NA	NA
SS114	01NE31SS114	1.5	**1,600**	ND(200)VQQ	NA	NA
SS115	01NE31SS115	0.5	**380**	ND(40)VQQ	NA	NA
SS116	01NE31SS116	1.5	**1,200**	ND(200)VQQ	NA	NA
SS117	01NE31SS117	0.5	**2,100**	ND(200)VQQ	NA	NA
SS118	01NE31SS118	1.5	**3,000**	ND(200)VQQ	NA	NA
SS119	01NE31SS119	0.5	**1,600**	7,800 VJ	NA	NA
SS120	01NE31SS120	1.5	**2,100**	**11,000**	NA	NA
SS123	01NE31SS123	0.5	240	1,300 VJ	NA	**22**
ADEC Method Two Cleanup Level			250	11,000	None	1

Key:

Bold indicates concentration exceeds cleanup level.

ADEC = Alaska Department of Environmental Conservation
DRO = diesel range organics
ft. bgs = feet below ground surface
mg/kg = milligrams per kilogram
NA = not analyzed
ND = analyte not detected. Method reporting limit shown in parenthesis
PCB = Polychlorinated biphenyl
RRO = residual range organics
SD = sediment
SS = surface soil
VQQ = practical quantitation limit is estimated

No metals were detected above Table C cleanup levels, and no DRO, RRO, VOCs, or PAHs were detected (Appendix D).

2.1.16.5 Sampling Areas of Suspected Contamination

Two additional surface soil samples were collected from suspected contaminated areas at Site 31 (Figure 2-26). Sample SS124 was collected from immediately downgradient of the outfall pipe from the tank impoundment. Sample SS123 was collected from immediately downgradient of an outfall pipe from Building 1001, possibly a sewage outfall. Photos of sample locations are provided in Appendix C. Surface soil samples were analyzed for DRO, RRO, GRO, VOCs, PCBs, and pesticides.

The PCB Aroclor™ 1260 was detected in Sample SS123 at 22 mg/kg, above the Method Two cleanup level (Table 2-16). DRO and RRO were not detected above Method Two cleanup levels, and no other PCBs, GRO, or pesticides were detected

2.1.17 Site 32 – Lower Tram Terminal

2.1.17.1 Background

The Lower Tram Terminal is located south of the White Alice Site at the northern base of Mt. Kangukhsam. The site consists of a Tram Terminal Building, Substation Transformer Bank No. 2, three ASTs (two inside and one outside the Tram Terminal Building), a water well, and an Anchor Pit (Figure 2-27). The East Tributary drains from Sites 31 and 32 to the Suqitughneq River. Previous investigations identified PCB contamination in the concrete transformer pad at the Transformer Bank, but PCBs were not detected in soil surrounding the concrete pad (URS, 1992).

Objectives of Phase III RI fieldwork at the Lower Tram Terminal were to establish the presence or absence of soil contamination associated with the exterior diesel AST and oiling of tram cables, and to inspect the area for any visual signs of contamination, such as stained soil, distressed vegetation, septic system outfalls, or transformer pads.

2.1.17.2 Soil Sampling

Co-located surface and subsurface soil samples (SS101 and SS102) were collected from an area of heavy soil staining beneath the valve at the exterior AST (Figure 2-27). Photos of sample locations are provided in Appendix C.Soil samples were analyzed for DRO and RRO.

DRO was detected above the Method Two cleanup level in both the surface and subsurface samples (Table 2-17). RRO was not detected.

Surface soil samples SS103 through SS105 were collected from the area immediately outside the tram bay (Figure 2-27). These sample locations were determined in the field based on soil staining that was interpreted as evidence of oil dripping from the tram cables. Photos of sample locations are provided in Appendix C. Stained areas were discontinuous and appeared heavier toward the north (downhill) portion of the tram bay area. Soil samples were analyzed for DRO, RRO, PCBs, and pesticides.

Table 2-17
Site 32 Results, Regulatory Exceedences

Sample Location	Sample Identification	Sample Depth (ft. bgs)	DRO (mg/kg)
SS101	01NE32SS101	0.5	**7,600**
SS102	01NE32SS102	1.5	**13,000**
SS104	01NE32SS104	0.5	**600**
SS105	01NE32SS105	0.5	**1,000**
SS122	01NE31SS122	0.5	**11,000**
ADEC Method Two Cleanup Level			250

Key:

Bold indicates concentration exceeds cleanup level.

ADEC = Alaska Department of Environmental Conservation
DRO = diesel range organics
ft. bgs = feet below ground surface
mg/kg = milligrams per kilogram
SS = surface soil

DRO was detected in two of the three surface soil samples at concentrations above the Method Two cleanup level (Table 2-17). No PCBs or RRO were detected above Method Two cleanup levels, and no pesticides were detected.

Two additional surface soil samples were collected from suspected contaminated areas at Site 32 (Figure 2-27). Sample SS122 was collected from the Anchor Pit. Sample SS121 was collected from an area with stained soil and distressed vegetation located approximately 50 feet downgradient of the concrete pad at Substation Transformer Bank No. 2. Photos of sample locations are provided in Appendix C. These samples were erroneously identified as having come from Site 31. Surface soil samples were analyzed for DRO, RRO, GRO, VOCs, PCBs, and pesticides.

DRO was detected in the Anchor Pit soil sample 31SS122 at a concentration above the Method Two cleanup level (Table 2-17). No RRO, GRO, or VOCs were detected above Method Two cleanup levels, and no PCBs or pesticides were detected.

2.1.18 Site 33 – Upper Tram Terminal

A tramway links the Lower Tram Terminal Building to the Upper Tram Building, which is located on top of Mt. Kangukhsam. The site consists of a Tram Terminal Building connected to the Upper Camp by an Enclosed Track Man-lift. Previous work at this site included a tank survey, asbestos survey and sampling effort, and removal of hazardous materials (URS, 1992).

Objectives of the Phase III RI fieldwork at Site 33 were to identify any soil contamination associated with oiling of tram cables.

Three surface soil samples were collected from stained soil areas immediately outside the tram bay (Figure 2-28) and analyzed for DRO, RRO, and PCBs.

DRO exceeded the Method Two cleanup level in surface soil sample SS103. (Table 2-18). RRO was below the Method Two cleanup level, and no PCBs were detected.

Table 2-18
Site 33 Results, Regulatory Exceedences

Sample Location	Sample Identification	Sample Depth (ft. bgs)	DRO (mg/kg)
SS103	01NE33SS104	0.5	**660**
ADEC Method Two Cleanup Level			250

Key:
Bold indicates concentration exceeds cleanup level.
ADEC = Alaska Department of Environmental Conservation
DRO = diesel range organics
ft. bgs = feet below ground surface
mg/kg = milligrams per kilogram
SS = surface soil

2.1.19 Site 34 – Upper Camp

2.1.19.1 Background

The Upper Camp is located at the top of Mt. Kangukhsam. Upper Camp structures are connected to the Upper Tram Terminal Building by an Enclosed Track Man-lift and consist of a Substation Transformer Pad, one fuel AST, one water AST, a Radome (Building 221), and the Upper Quarters Building (Building 124 – Figure 2-29). Previous work at this site included a tank survey, asbestos survey and sampling effort, and removal of hazardous materials. Over 600 drums were removed from an abandoned drum field at this site where total petroleum hydrocarbons (TPH) were detected in soil samples collected from the abandoned drum field. PCBs were also detected in the concrete transformer pad and in soil surrounding the pad at concentrations of up to 1.4 mg/kg (URS, 1992).

Objectives of Phase III RI fieldwork at the Upper Camp were to confirm the concentrations of PCBs detected in soil during previous investigations and characterize the extent of contamination, identify any soil contamination associated with the diesel fuel stored in the AST, resample areas with the highest TPH concentrations from previous investigations and analyses using current analytical methods, and collect and analyze surface soil samples from areas suspected of contamination.

2.1.19.2 Surface Soil Sampling for PCBs

The sampling grid laid out during previous sampling was located and four surface soil samples were collected from previously sampled hot spots around the concrete transformer pad at the

Substation Transformer Pad (Figure 2-29) and field-screened for PCBs using an immunoassay test kit. The soil sample with the highest immunoassay test result (SS104) was submitted for laboratory analysis of PCBs. Field screening indicated no PCBs were present above the action level of 0.5 mg/kg in any of the samples. However, laboratory analysis did detect PCBs in the sample submitted. Photos of sample locations are provided in Appendix C.

PCBs were detected above the Method Two cleanup level in Sample SS104 (Appendix D).

2.1.19.3 Soil Sampling for DRO

Two co-located soil samples were collected at the fuel AST; Sample SS105 from the surface and Sample SS106 from soil approximately 2 feet bgs. The samples were collected at a stained soil area beneath the tank valve (Figure 2-29). Photos of sample locations are provided in Appendix C. Soil samples were analyzed for DRO and RRO.

DRO was detected in both the surface and subsurface soil samples above the Method Two cleanup level (Table 2-19); RRO was not detected above the Method Two cleanup level.

Table 2-19
Site 34 Results, Regulatory Exceedences

Sample Location	Sample Identification	Sample Depth (ft. bgs)	DRO (mg/kg)	Total PCBs by Immunoassay (colorimetric)	PCBs (mg/kg)
SS104	01NE34SS104	0.5	NA	+0.23	**1.06**
SS105	01NE34SS105	0.5	**980**	NA	NA
SS106	01NE34SS106	1.5	**1,100**	NA	NA
SS109	01NE34SS109	0.5	**300**	NA	0.213
ADEC Method Two Cleanup Level			250	None	1

Key:
Bold indicates concentration exceeds cleanup level.
ADEC = Alaska Department of Environmental Conservation
DRO = diesel range organics
ft. bgs = feet below ground surface
mg/kg = milligrams per kilogram
NA = not analyzed
PCBs = polychlorinated biphenyls
SS = surface soil

Surface soil samples SS101, SS102, and SS111 were collected from previous sampling locations at the abandoned drum field (Figure 2-29). Sample locations were limited due to the lack of surface soil. Surface soil samples were analyzed for DRO, RRO, PAHs, and PCBs. DRO and RRO were not detected above the Method Two cleanup level, and no PAHs or PCBs were detected.

Background surface soil sample SS103 was collected south of the former abandoned drum field (Figure 2-29) and analyzed for DRO, RRO, PAHS, and PCBs. DRO and RRO were not detected above the Method Two cleanup level, and no PAHs or PCBs were detected.

2.1.19.4 Sampling Areas with Suspected Contamination

Additional surface soil samples SS107 through SS110 were collected from areas downgradient of an outfall pipe from Building 124 (possibly a sewage outfall – Figure 2-29). Photos of sample locations are provided in Appendix C. These surface soil samples were analyzed for DRO, RRO, PCBs, and TOC.

DRO was detected above the Method Two cleanup level in Sample SS109; no other analytes were detected above Method Two cleanup levels (Table 2-19).

2.2 INVESTIGATIVE-DERIVED WASTE

Project waste consisted of four waste streams:

- Purge water from developing and purging monitoring wells
- Decontamination water from cleaning non-disposable equipment
- Soil cuttings from borehole drilling
- Disposable protective clothing, supplies, and sampling equipment

2.2.1 Purge Water

In 2001, purge water was added to the water waste stream of the BD/DR contractor for treatment/disposal. In 2002, purge water was filtered through a granular activated carbon filter and discharged to the ground surface.

2.2.2 Decontamination Water

In 2001, decontamination water was added to the water waste stream of the BD/DR contractor for treatment/disposal. In 2002, decontamination water was filtered through a granular activated carbon filter and discharged to the ground surface.

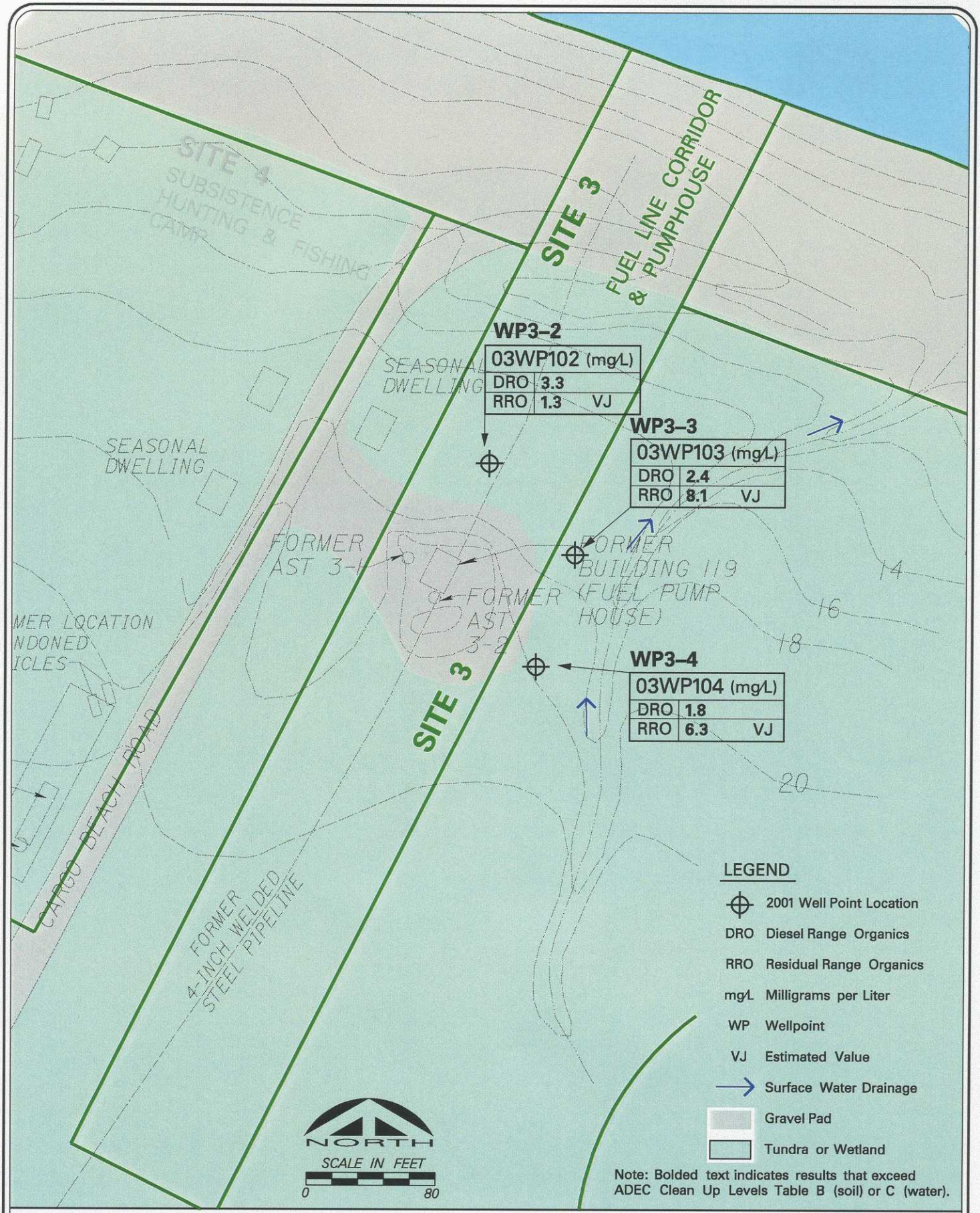
A carbon generator declaration is included in Appendix A.

2.2.3 Soil Cuttings

Soil cuttings from borehole drilling were placed on plastic sheeting until borehole drilling was completed, then the cuttings were returned to the borehole. For monitoring wells, the soil cuttings were spread at the surface.

2.2.4 Disposable Protective Clothing, Supplies, and Sampling Equipment

Based on previous data collected at the site, disposable protective clothing, supplies, and sampling equipment were designated as non-hazardous. These items were bagged and shipped to Anchorage, Alaska, for disposal as solid waste.



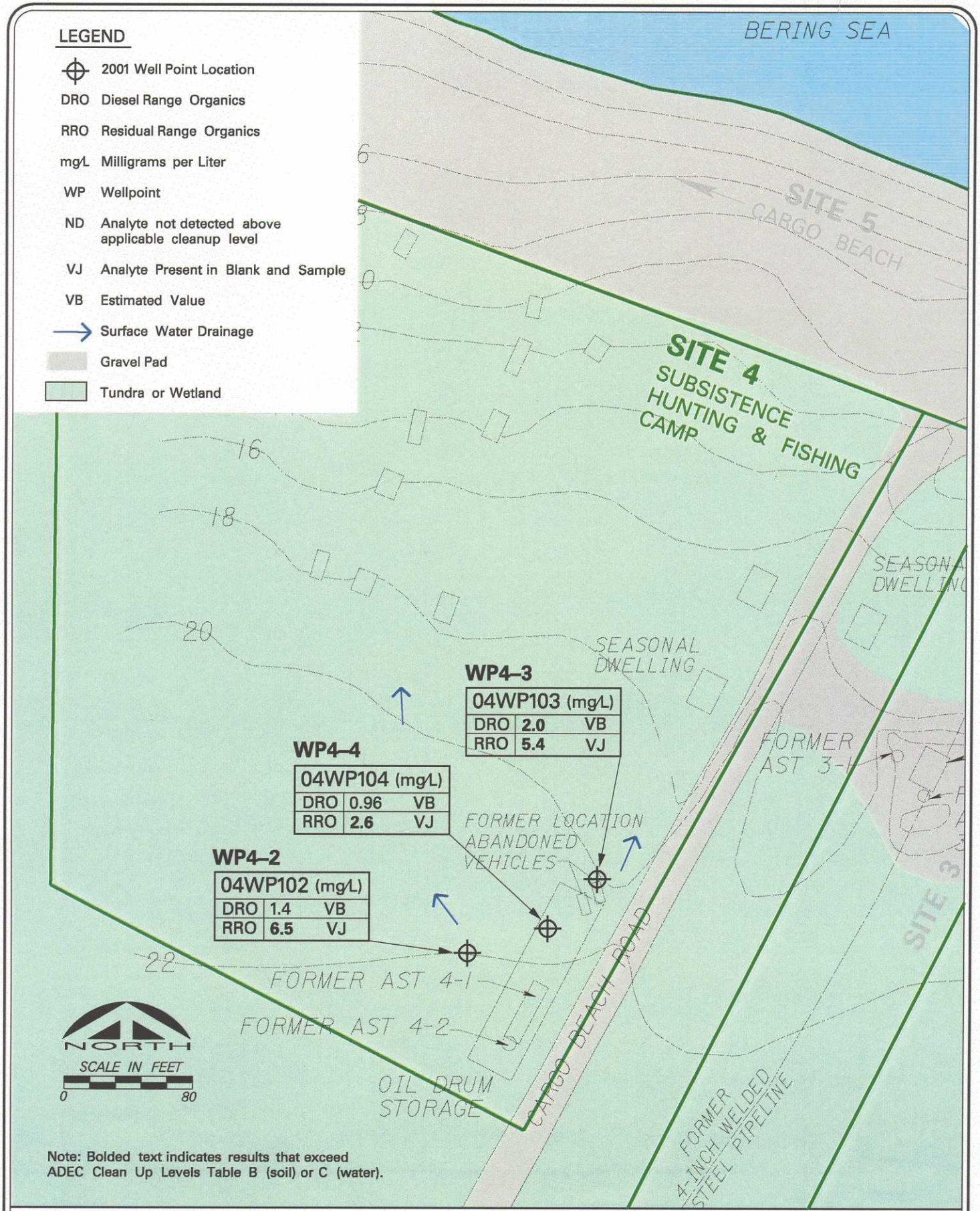
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Anchorage, Alaska

FIGURE 2-1

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

SITE 3 – FUEL LINE CORRIDOR AND PUMPHOUSE
2001 SAMPLING LOCATIONS & SELECTED RESULTS



Note: Bolded text indicates results that exceed ADEC Clean Up Levels Table B (soil) or C (water).

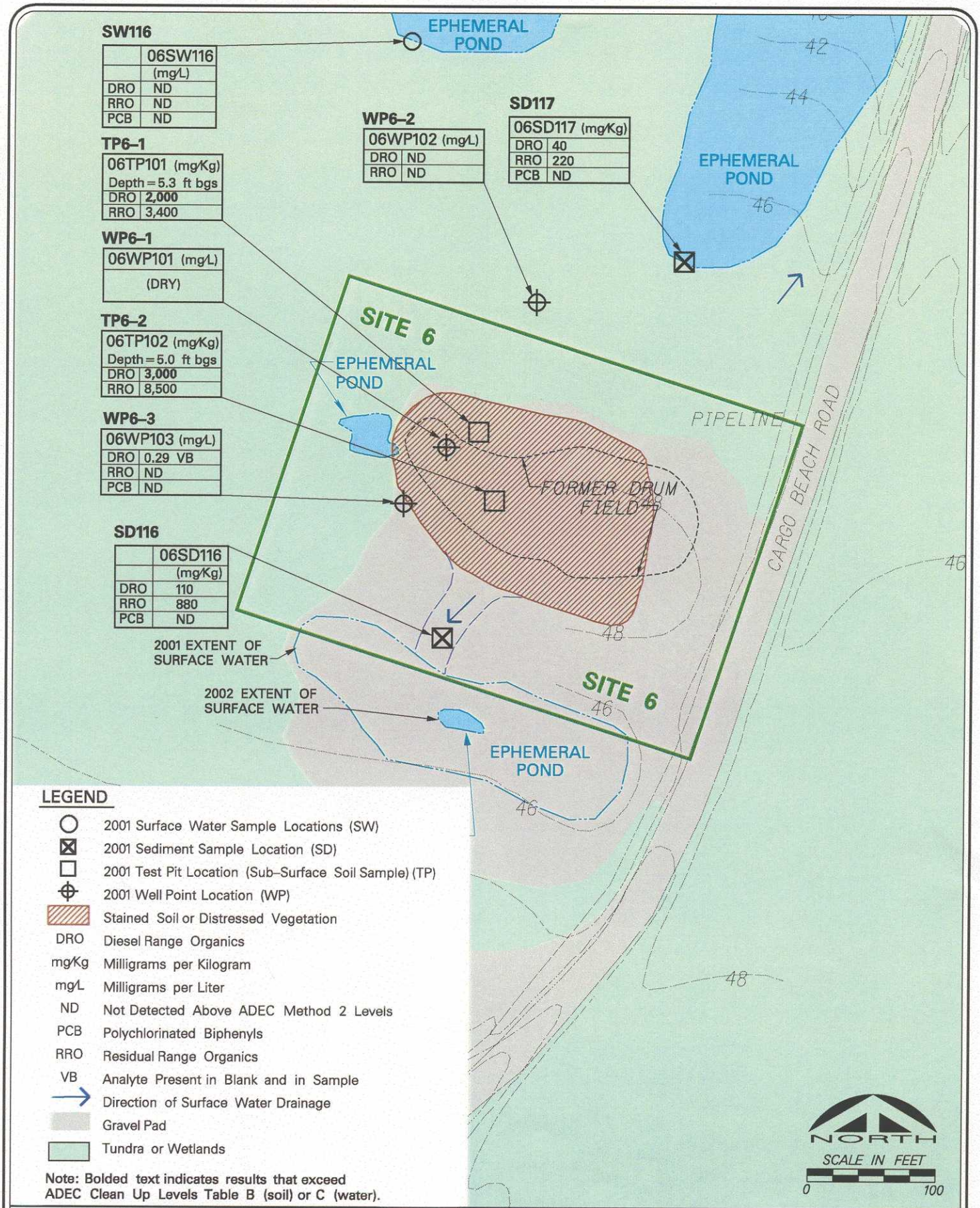
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FIGURE 2–2

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

SITE 4 – SUBSISTENCE HUNTING AND FISHING CAMP
2001 SAMPLING LOCATIONS & SELECTED RESULTS

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Anchorage, Alaska

FIGURE 2–3

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

SITE 6 – CARGO BEACH ROAD DRUM FIELD
2001 SAMPLING LOCATIONS & SELECTED RESULTS

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LEGEND

- 2001 Surface Soil Sample Location (SS)
- 2001 Surface Water/Sediment Sample Location (SW/SD)
- 2001 Well Point Location (WP)
- Exposed Material (2001)
- DRO Diesel Range Organics
- mg/Kg Milligrams per Kilogram
- mg/L Milligrams per Liter
- ND Not Detected
- PCB Polychlorinated Biphenyls
- RRP Residual Range Organics
- VJ Estimated Value
- Gravel Pad
- Tundra or Wetland

Note: Bolded text indicates results that exceed ADEC Clean Up Levels Table B (soil) or C (water).

SW/SD104

07SW/SD104	(mg/L)	(mg/Kg)
DRO	ND	**1,400**
RRO	ND	**2,800**
PCB	ND	ND

WP7–2

07WP102 (mg/L)		
DRO	ND	
RRO	**1.1**	VJ
PCB	ND	

WP7–3

07WP103 (mg/L)	
DRO	0.39
RRO	**1.4**
PCB	ND

WP7–1

07WP101 (mg/L)		
DRO	0.66	
RRO	**2.7**	VJ
PCB	ND	

SS127

07SS127 (mg/Kg)	
DRO	**720**
RRO	**3,600**
PCB	**13**

SS125

07SS125 (mg/Kg)	
DRO	150
RRO	620
PCB	**1.1**

SS126

07SS126 (mg/Kg)	
DRO	160
RRO	740
PCB	0.13

SW/SD105

	07SW105 (mg/L)	07SD105 (mg/Kg)
DRO	ND	**280**
RRO	ND	1,700
PCB	ND	ND

EPHEMERAL POND

1999 EXTENT OF SURFACE WATER

2001 EXTENT OF SURFACE WATER

1994 EXTENT OF SURFACE WATER

SITE 6

SITE 7

CONNEX STAGING AREA (2001–2003)

CARGO BEACH ROAD

LANDFILL SURVEY BOUNDARY (2001)

EXPOSED LANDFILL MATERIAL (2001)

2002 EXTENT OF SURFACE WATER

NORTH

SCALE IN FEET

0 100

NOTES

Base maps were digitized from various as–built drawings provided by the Corps of Engineers.

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Anchorage, Alaska

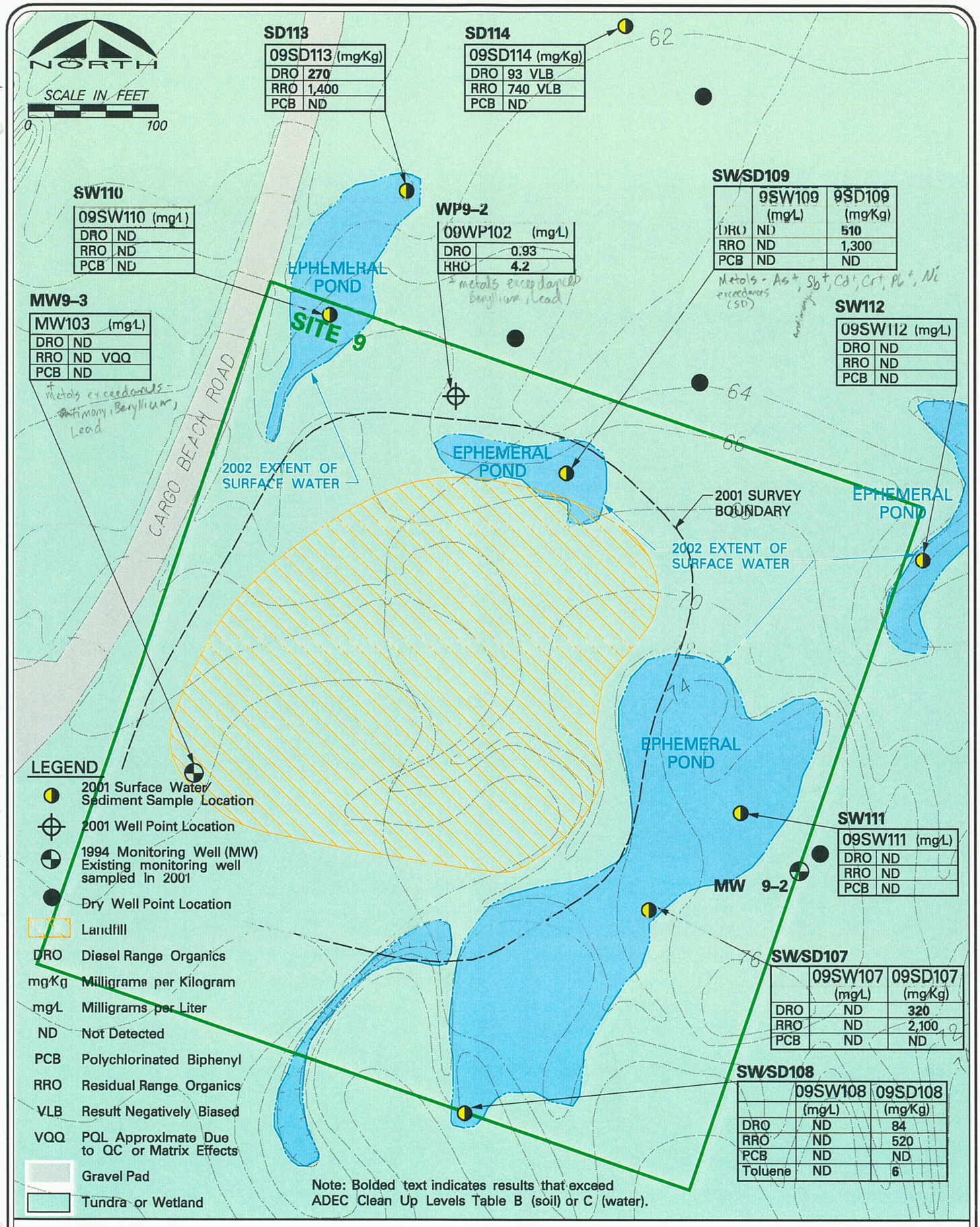
FIGURE 2–4

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

SITE 7 – CARGO BEACH ROAD LANDFILL
2001 SAMPLING LOCATIONS & SELECTED RESULTS

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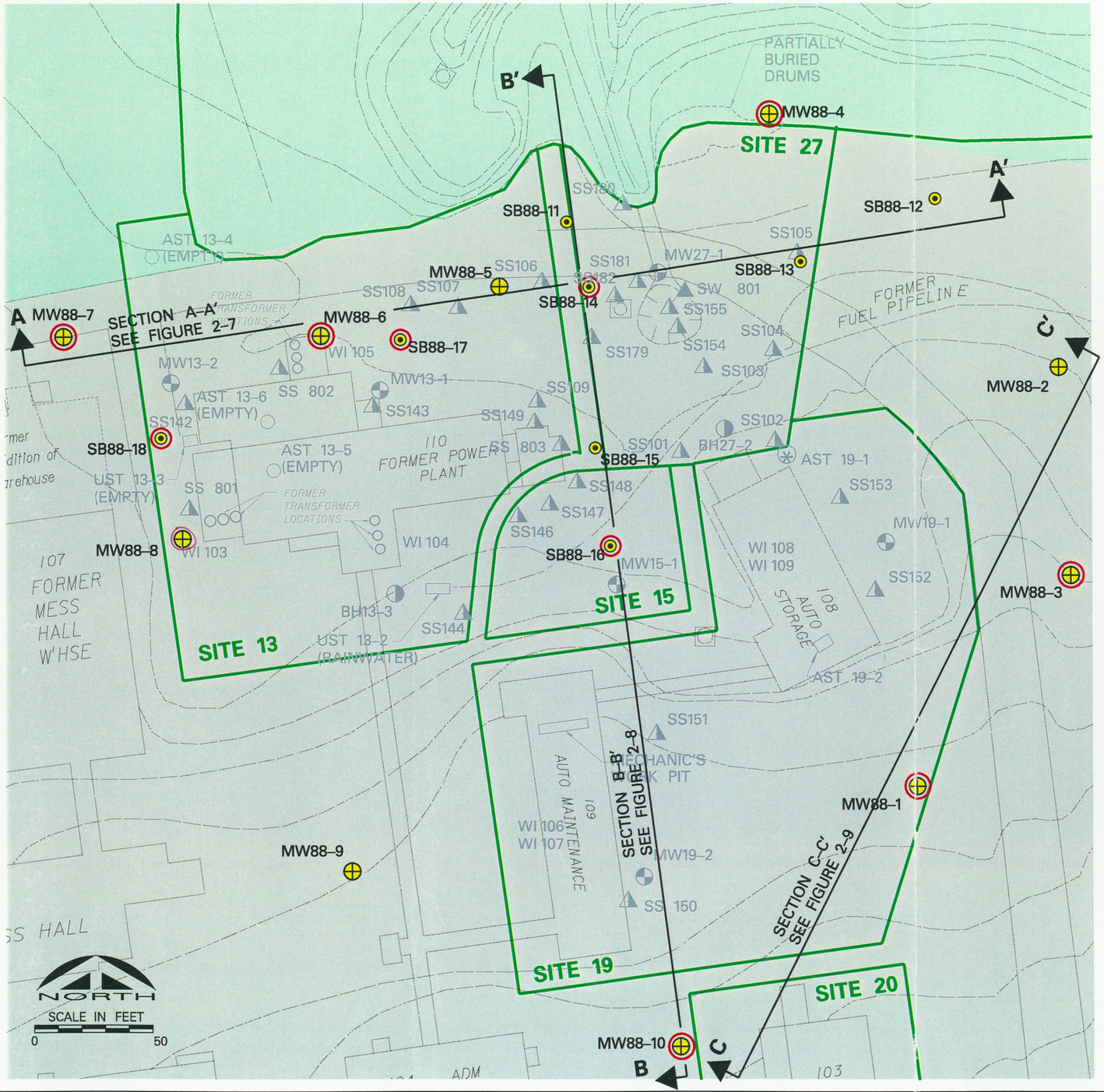
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Anchorage, Alaska

FIGURE 2–5

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

SITE 9 – HOUSING & OPERATIONS LANDFILL
2001 SAMPLING LOCATIONS & SELECTED RESULTS



SOILS RESULTS

Soil Sample Location	Sample (feet bgs)	GRO (mg/Kg)	DRO (mg/Kg)	RRO (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	o-Xylene (mg/Kg)	m & p- Xylene (mg/Kg)	Naphthalene (mg/Kg)	Chromium (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**	340	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	150	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	**0.24**	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**	220	**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	GRO (mg/L)	DRO (mg/L)	RRO (mg/L)	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	o-Xylene (mg/L)	m & p - Xylene (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
( ) – method reporting limit

Note: Bolded text indicates results that exceed ADEC Clean Up Levels Table B (soil) or C (water).

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
- DRO Results Exceed ADEC Table B at Static Water Interface

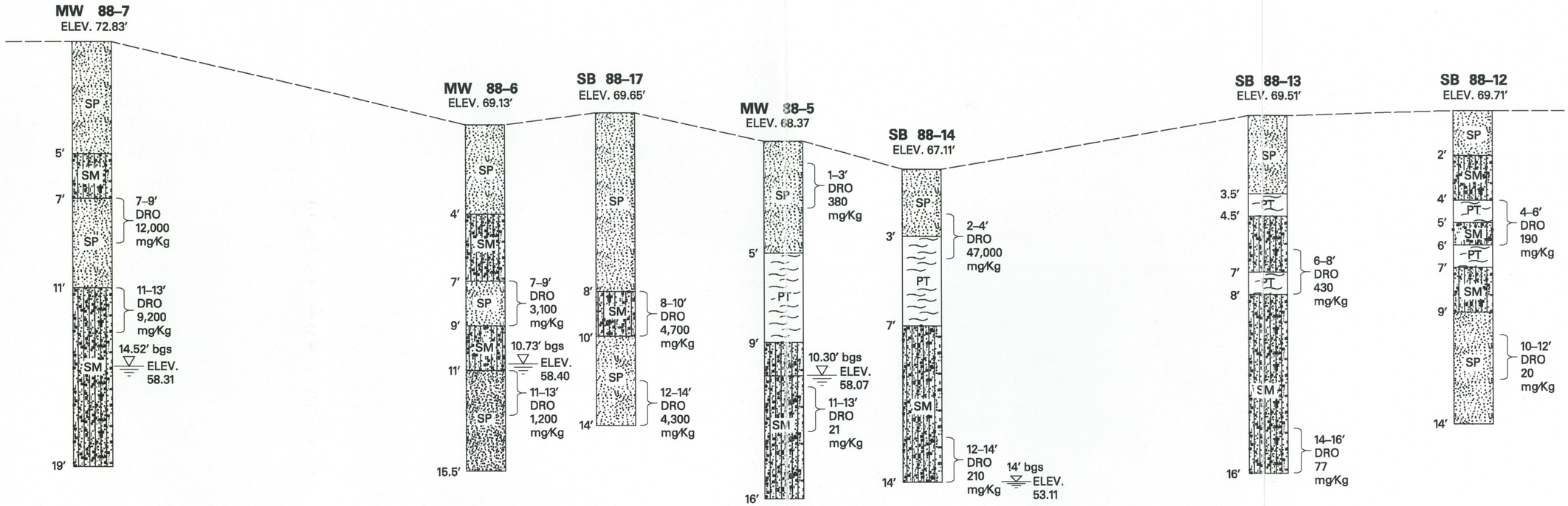
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FIGURE 2-6

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

SITE 88 (SITES 13, 15, 19, 20, & 27) – MAIN OPERATIONS COMPLEX SAMPLING LOCATIONS & SELECTED RESULTS

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TIME: 24-MAR-20 :59



SCALE:
HOR. 1″ = 30′
VER. 1″ = 5′

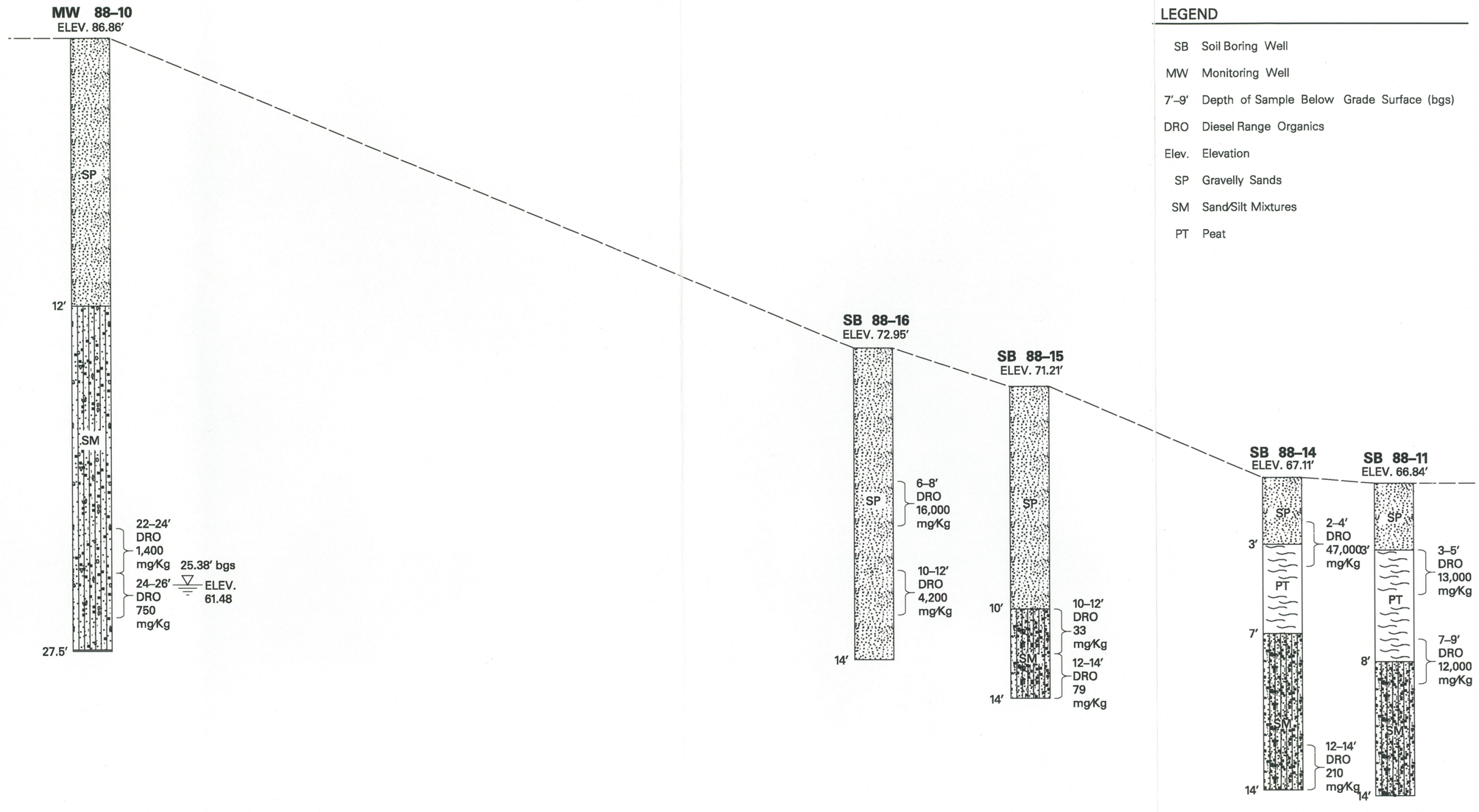
LEGEND

SB	Soil Boring Well
MW	Monitoring Well
7′–9′	Depth of Sample Below Grade Surface (bgs)
DRO	Diesel Range Organics
Elev.	Elevation
SP	Gravelly Sands
SM	Sand/Silt Mixtures
PT	Peat

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FIGURE 2–7
U. S. ARMY ENGINEER DISTRICT, ALASKA – N. E. CAPE, ALASKA
2002 PHASE III REMEDIAL INVESTIGATION
SITE 88 (SITES 13, 15, 19, 20, & 27) - MAIN OPERATIONS COMPLEX
SECTION A-A′

TIME: 24-MAR-20 :59 FILE: \\usacils-fileserv\server\Cad\Proj\usace\necape\02rl.ph3\report\Final\fig2-07.dg



LEGEND

SB	Soil Boring Well
MW	Monitoring Well
7′–9′	Depth of Sample Below Grade Surface (bgs)
DRO	Diesel Range Organics
Elev.	Elevation
SP	Gravelly Sands
SM	Sand/Silt Mixtures
PT	Peat

SCALE:
HOR. 1″ = 30′
VER. 1″ = 5′

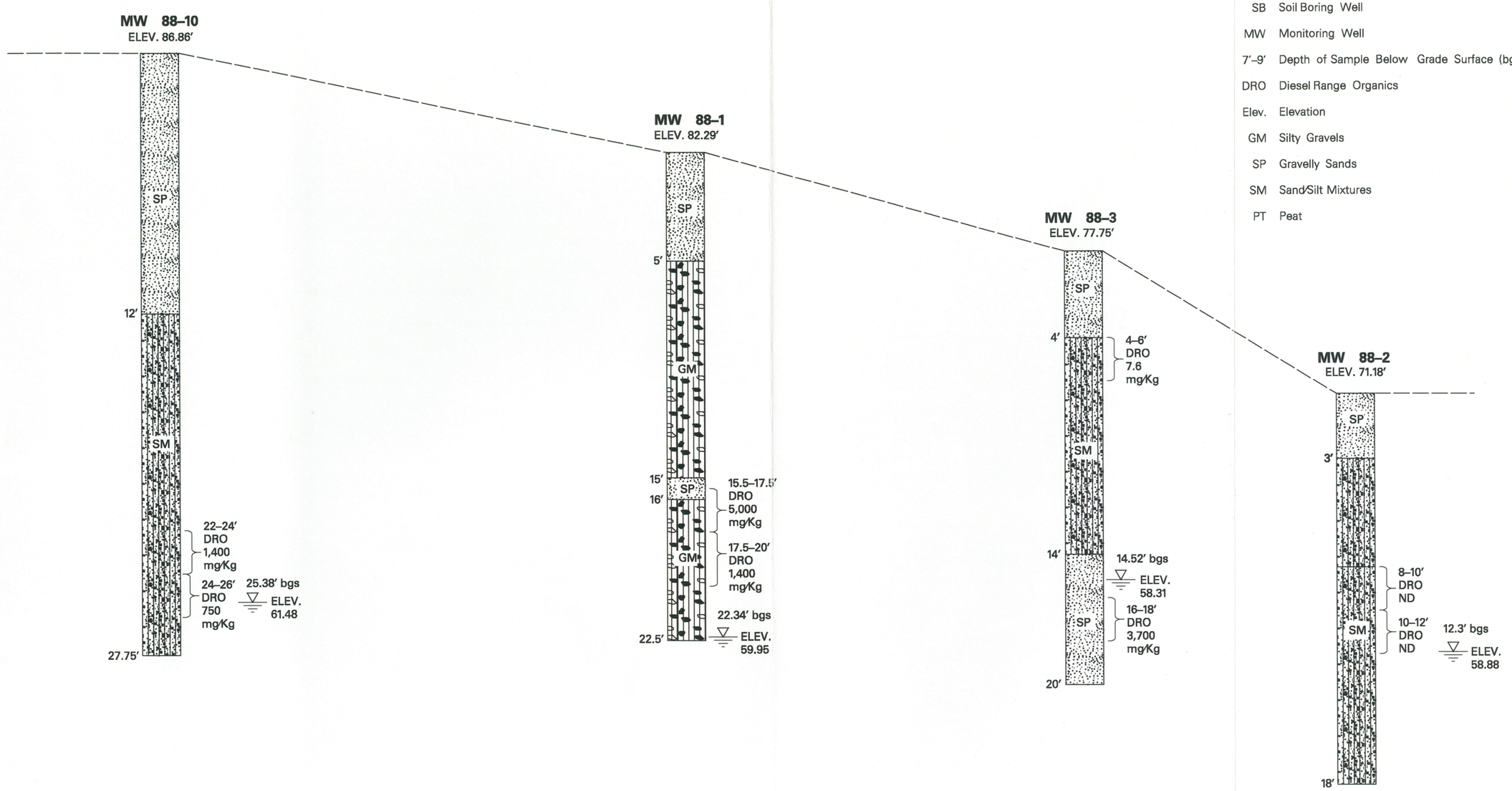
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FIGURE 2–8

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

SITE 88 (SITES 13, 15, 19, 20, & 27) – MAIN OPERATIONS COMPLEX SECTION B–B′

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LEGEND

SB	Soil Boring Well
MW	Monitoring Well
7′–9′	Depth of Sample Below Grade Surface (bgs)
DRO	Diesel Range Organics
Elev.	Elevation
GM	Silty Gravels
SP	Gravelly Sands
SM	Sand/Silt Mixtures
PT	Peat

SCALE:
HOR. 1″ = 30′
VER. 1″ = 5′

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Anchorage, Alaska

FIGURE 2–9

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

SITE 88 (SITES 13, 15, 19, 20, & 27) – MAIN OPERATIONS COMPLEX SECTION C–C′

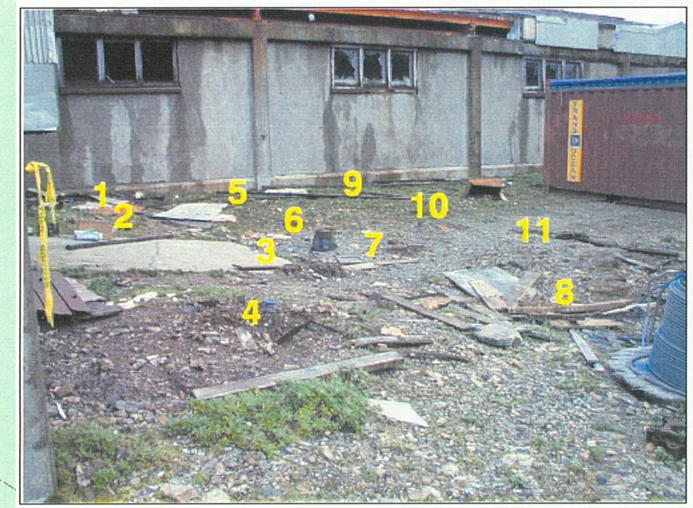
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TIME: 23-APR-2003 11:44 FILE: \\USANCIS-FILESRV\server\Cad\Proj\uscce\necape\02r1_ph3\report\FinalFinal\FIG2-10.DGN

NORTH

SCALE IN FEET

0 50



SITE 14 SCREENING GRID (10'X10' EACH)

SITE 14

FORMER BLDG. 98

SUBTERRANEAN ROOM

SUBTERRANEAN CORRIDOR

101, WEST DORMITORY

SS101

14SS101 (mg/Kg)	
PCB	**3.5**

SCREENING GRID

SS103

14SS103 (mg/Kg)	
PCB	0.2

SS102

14SS102 (mg/Kg)	
PCB	**19**

FORMER AST 18-I

FORMER TRANSFORMER LOCATIONS

LEGEND

- △ 2001 Sampling Locations
- mg/Kg Milligrams per Kilogram
- PCB Polychlorinated Biphenyl
- Gravel Pad
- Tundra or Wetlands
- Photo Orientation

Note: Bolded text indicates results that exceed ADEC Clean Up Levels Table B (soil) or C (water).

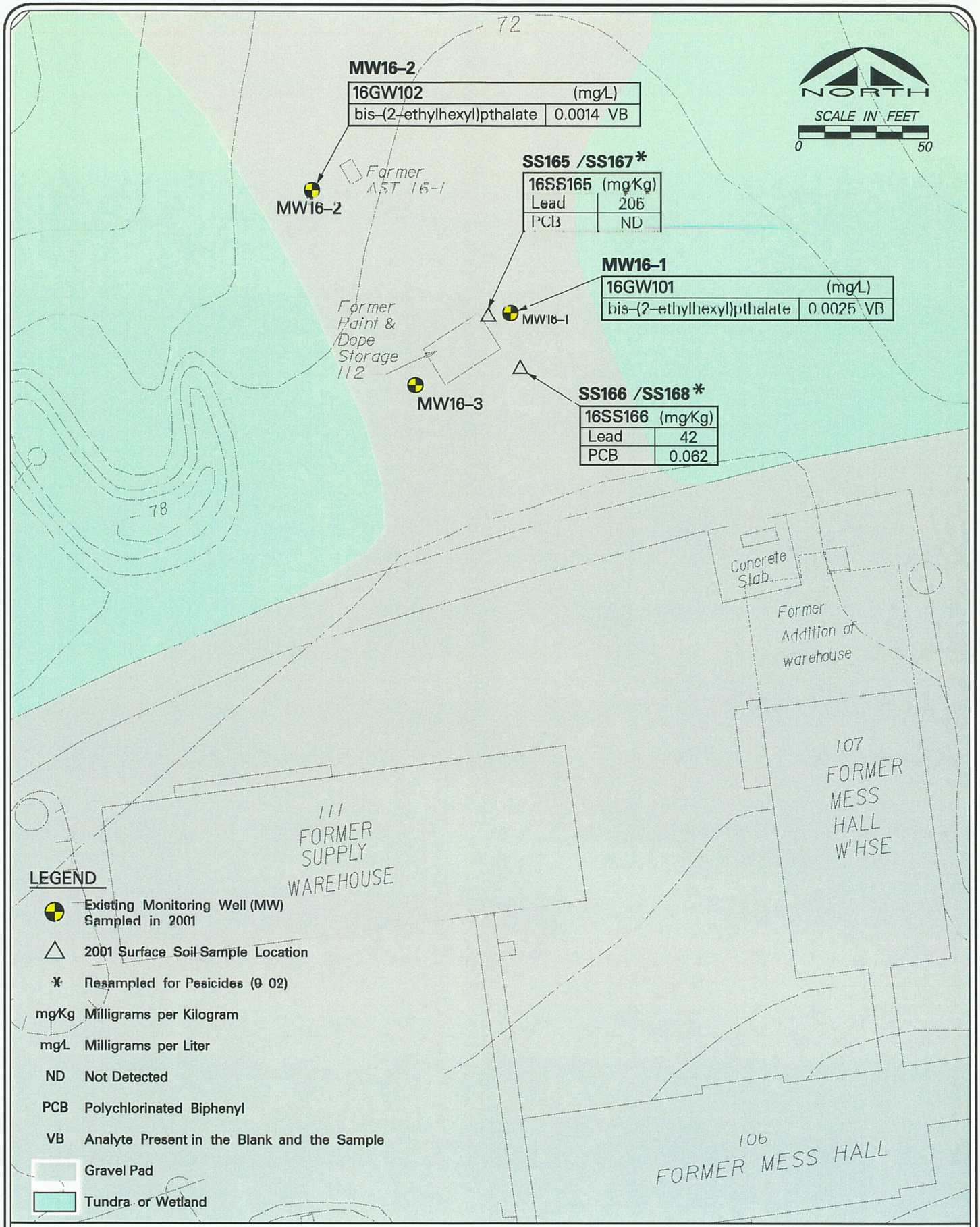
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FIGURE 2-10

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

SITE 14 – EMERGENCY POWER/OPERATIONS BUILDING 2001 SAMPLING LOCATIONS & SELECTED RESULTS



TIME: 24-MA...03 15:02 FILE: \\Usancis-filesrv\server\Cad\Proj\Usace\necape\02rI_ph3\repor~\Final\FIG2-11.dgn

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FIGURE 2–11

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

SITE 16 – FORMER PAINT AND DOPE STORAGE BLDG.
2001 SAMPLING LOCATIONS & SELECTED RESULTS

LEGEND

- 2001 Surface Soil Sample Location (SS)
- 2001 Surface Soil/Subsurface Soil Sample Location (SS/SB)
- 2001 Surface Water/Sediment Sample Location (SW/SD)
- DRO Diesel Range Organics
- mg/Kg Milligrams per Kilogram
- mg/L Milligrams per Liter
- ND Not Detected
- PCB Polychlorinated Biphenyls
- RRO Residual Range Organics
- VQQ PQL Approximate Due to QC or Matrix Effects
- Gravel Pad
- Tundra or Wetland

Note: Bolded text indicates results that exceed ADEC Clean Up Levels Table B (soil) or C (water).

SW/SD113

	21SW113	21SD113
	(mg/L)	(mg/Kg)
DRO	0.3	**310**
RRO	ND	2,000
AS	0.002	**12.1**
CR	ND	**36**
PCB	ND	ND

SS172

21SS172	(mg/Kg)
DRO	140
RRO	390
PCB	ND
AS	**11.5**

SW/SD114

	21SW114	21SD114
	(mg/L)	(mg/Kg)
DRO	ND VQQ	**310**
RRO	ND VQQ	2,000
PCB	ND	ND
AS	ND	**14.2**
CR	ND	**50**

SS/SB169

	21SS169	21SB169
	(mg/Kg)	(mg/Kg)
Depth	0–.5'	1.5–2.0'
DRO	**270**	**640**
RRO	2,800	3,700
PCB	ND	ND
AS	**7.4**	**3.0**
CR	ND	**27.4**

SS173

21SS173	(mg/Kg)
DRO	**300**
RRO	1,700
PCB	0.32
AS	**4.5**

SS/SB170

	21SS170	21SB170
	(mg/Kg)	(mg/Kg)
Depth	0–.5'	1.5–2'
DRO	**380**	**340**
RRO	2,200	2,300
PCB	0.29	ND
AS	**5.9**	**4.0**

SS/SB171

	21SS171	21SB171
	(mg/Kg)	(mg/Kg)
Depth	0–.5,	1.5–2.0'
DRO	94	ND
RRO	530	25
PCB	ND	ND
AS	**6.1**	**4.3**
CR	**39.8**	**41.0**

NORTH
SCALE IN FEET
0 100

SITE 21
AST 21–3
AST 21–2
AST 21–1
Conc. Sewer Box
Conc. Footing
Culvert
MH
Electric Relay
Concrete Slab
filler pipes & Vents
111 FORMER SUPPLY WAREHOUSE
Prefab Bldg
electric relay
98 FORMER EMERGENCY POWER & OPERATION BLDG.
SCREENING GRID
FORMER AST 18-1
P.P.
101. WEST DORMITORY
101. EAST DORMITORY
Former Power & Communication To Security B'ldg
BOG
40
42
44
46
48
50
52
54
56
58
60
62
64
66
70
80
84
86

NOTES

Base maps were digitized from various as–built drawings provided by the Corps of Engineers.

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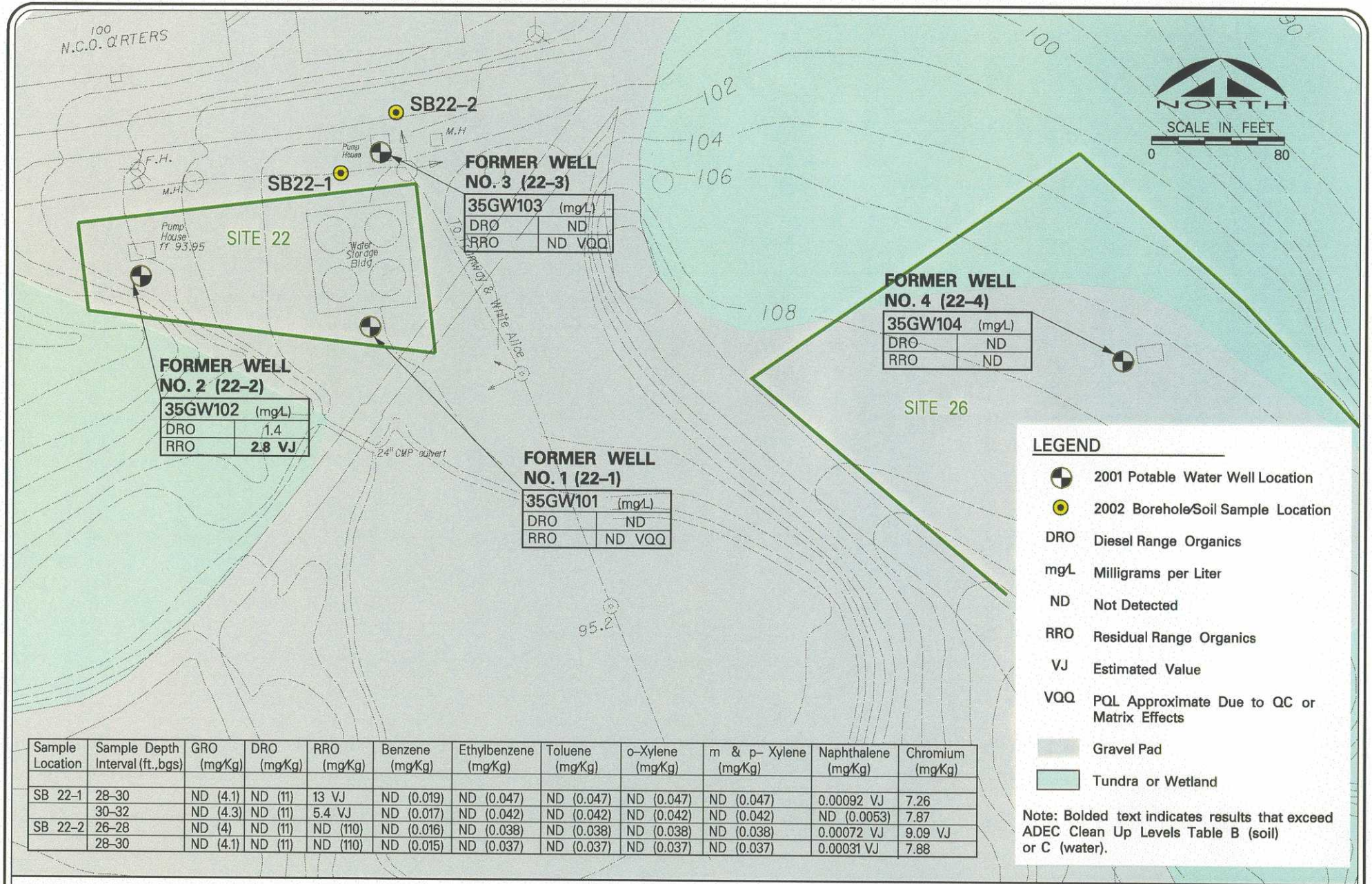
FIGURE 2–12

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

SITE 21 – WASTEWATER TREATMENT FACILITY
2001 SAMPLING LOCATIONS & SELECTED RESULTS

FILE: \\USANCIS-FILESRV\server\Cad\Proj\usace\necape\02r1_ph3\report\FinalFinal\FIG2-12.
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TIME: 24-MAR-2003 15:03 FILE: \\Usancls-fileSrv\server\Cad\Proj\usace\necape\02rI_ph3\report\Final\FIG2-13.DGN



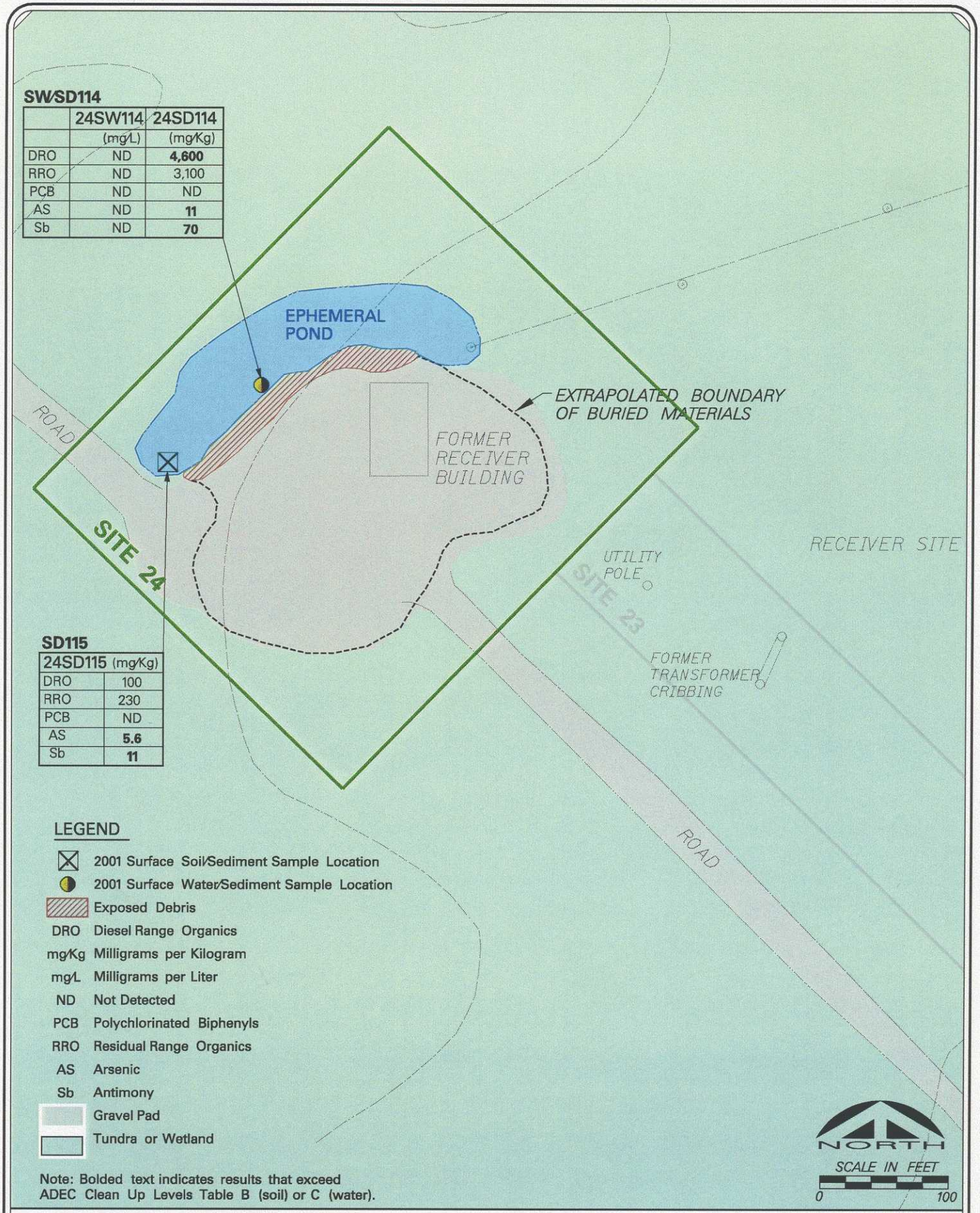
Sample Location	Sample Depth Interval (ft.,bgs)	GRO (mg/Kg)	DRO (mg/Kg)	RRO (mg/Kg)	Benzene (mg/Kg)	Ethylbenzene (mg/Kg)	Toluene (mg/Kg)	o-Xylene (mg/Kg)	m & p- Xylene (mg/Kg)	Naphthalene (mg/Kg)	Chromium (mg/Kg)
SB 22-1	28-30	ND (4.1)	ND (11)	13 VJ	ND (0.019)	ND (0.047)	ND (0.047)	ND (0.047)	ND (0.047)	0.00092 VJ	7.26
	30-32	ND (4.3)	ND (11)	5.4 VJ	ND (0.017)	ND (0.042)	ND (0.042)	ND (0.042)	ND (0.042)	ND (0.0053)	7.87
SB 22-2	26-28	ND (4)	ND (11)	ND (110)	ND (0.016)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	0.00072 VJ	9.09 VJ
	28-30	ND (4.1)	ND (11)	ND (110)	ND (0.015)	ND (0.037)	ND (0.037)	ND (0.037)	ND (0.037)	0.00031 VJ	7.88

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FIGURE 2-13

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

SITES 22 & 26 - WATER WELLS & WATER SUPPLY BLDG. 2001 SAMPLING LOCATIONS & SELECTED RESULTS



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FIGURE 2–14

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

SITE 24 – RECEIVER BUILDING AREA
2001 SAMPLING LOCATIONS & SELECTED RESULTS

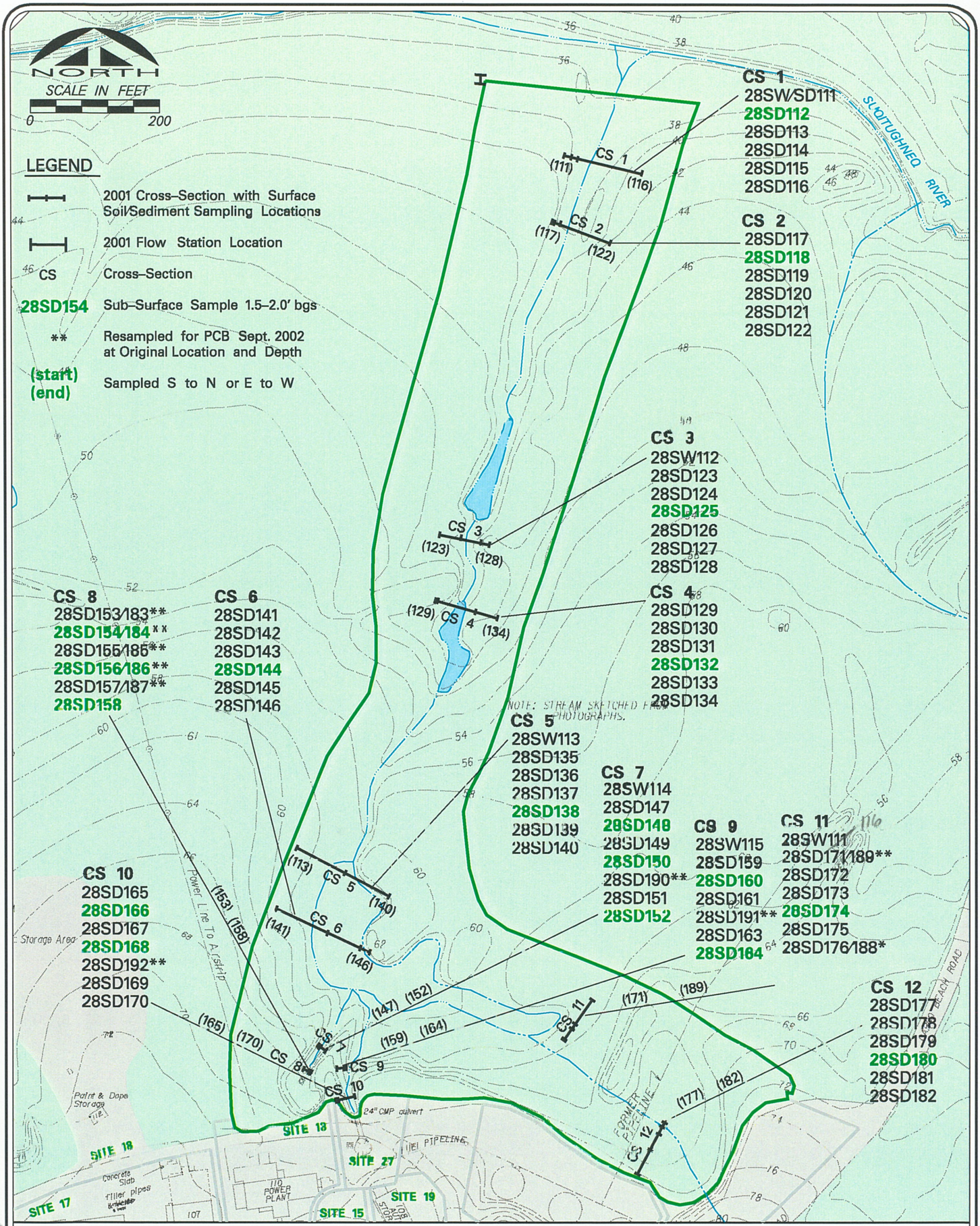


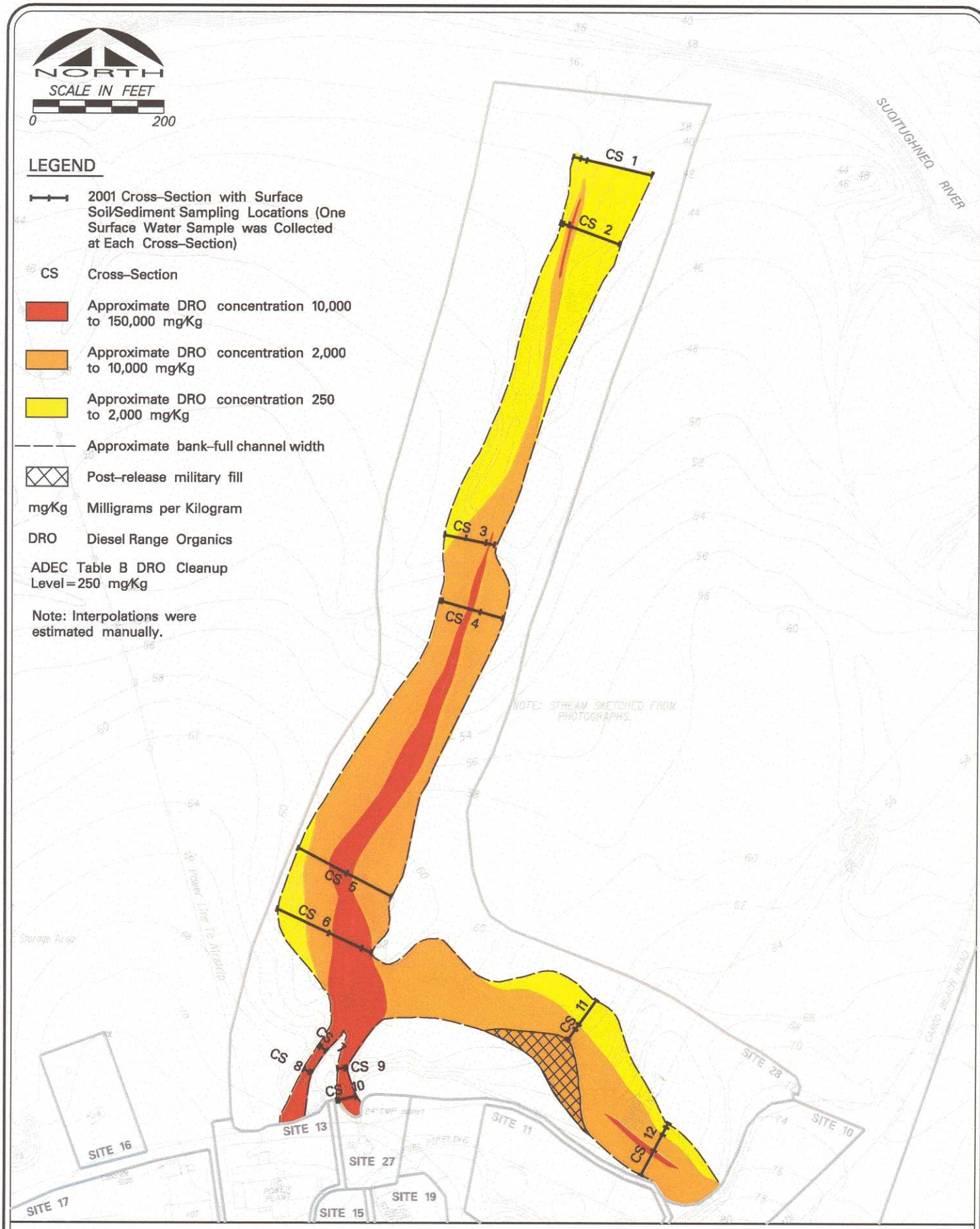
FIGURE 2–15

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

SITE 28 – DRAINAGE BASIN
2001 SAMPLING LOCATIONS

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FIGURE 2–16

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

SITE 28 – DRAINAGE BASIN 2001 DRO CONTOURS

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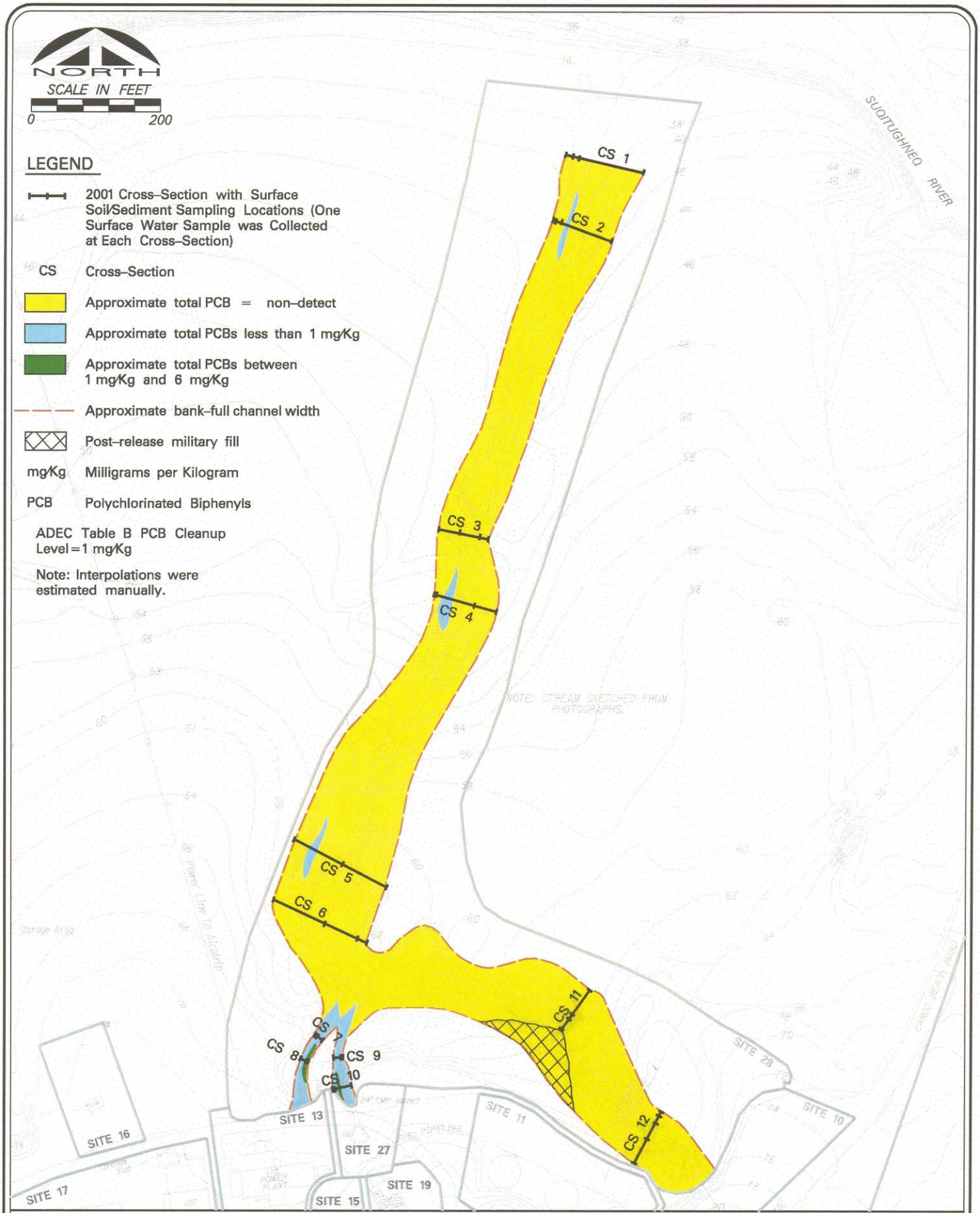


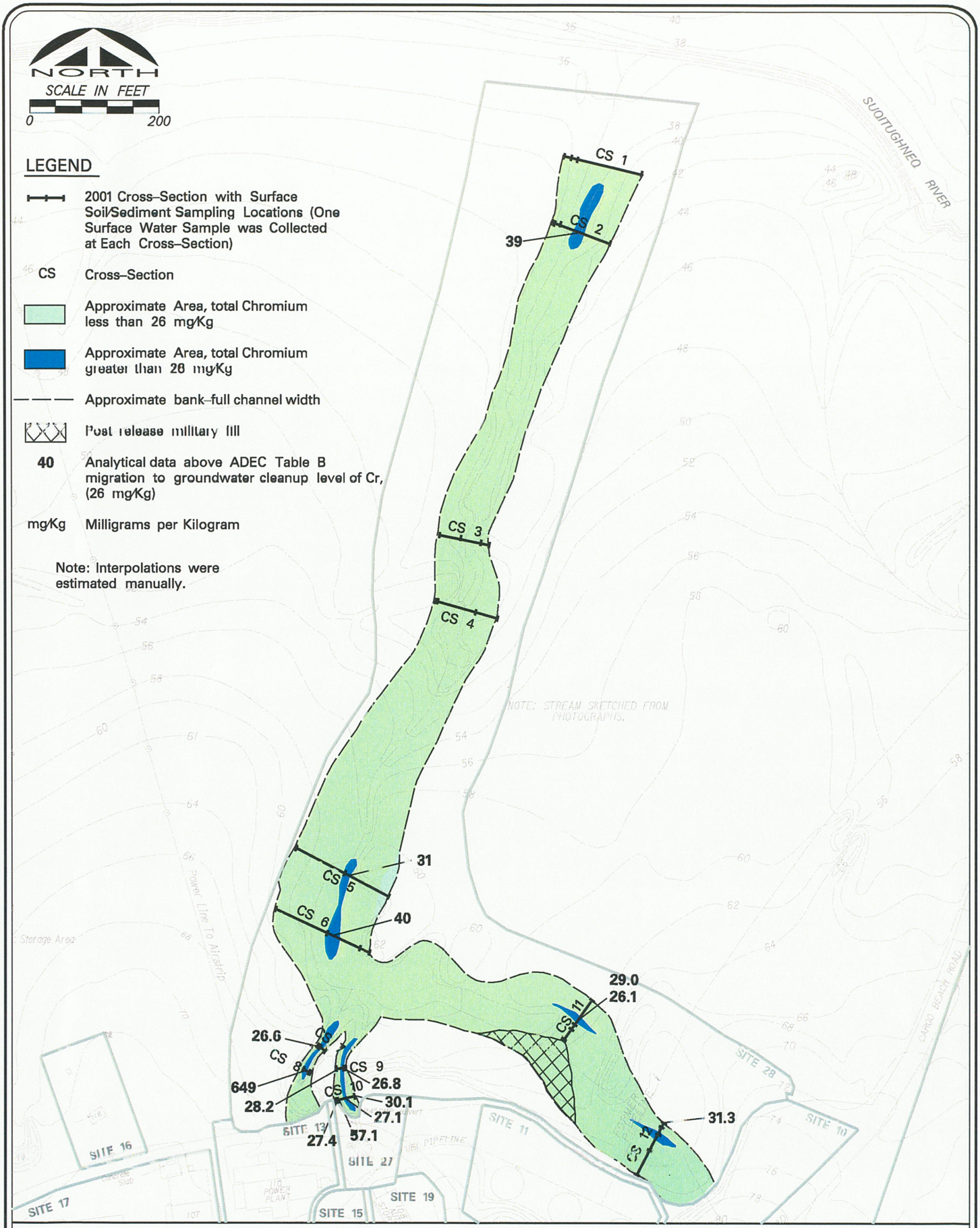
FIGURE 2-17

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

SITE 28 – DRAINAGE BASIN 2001 PCB CONTOURS

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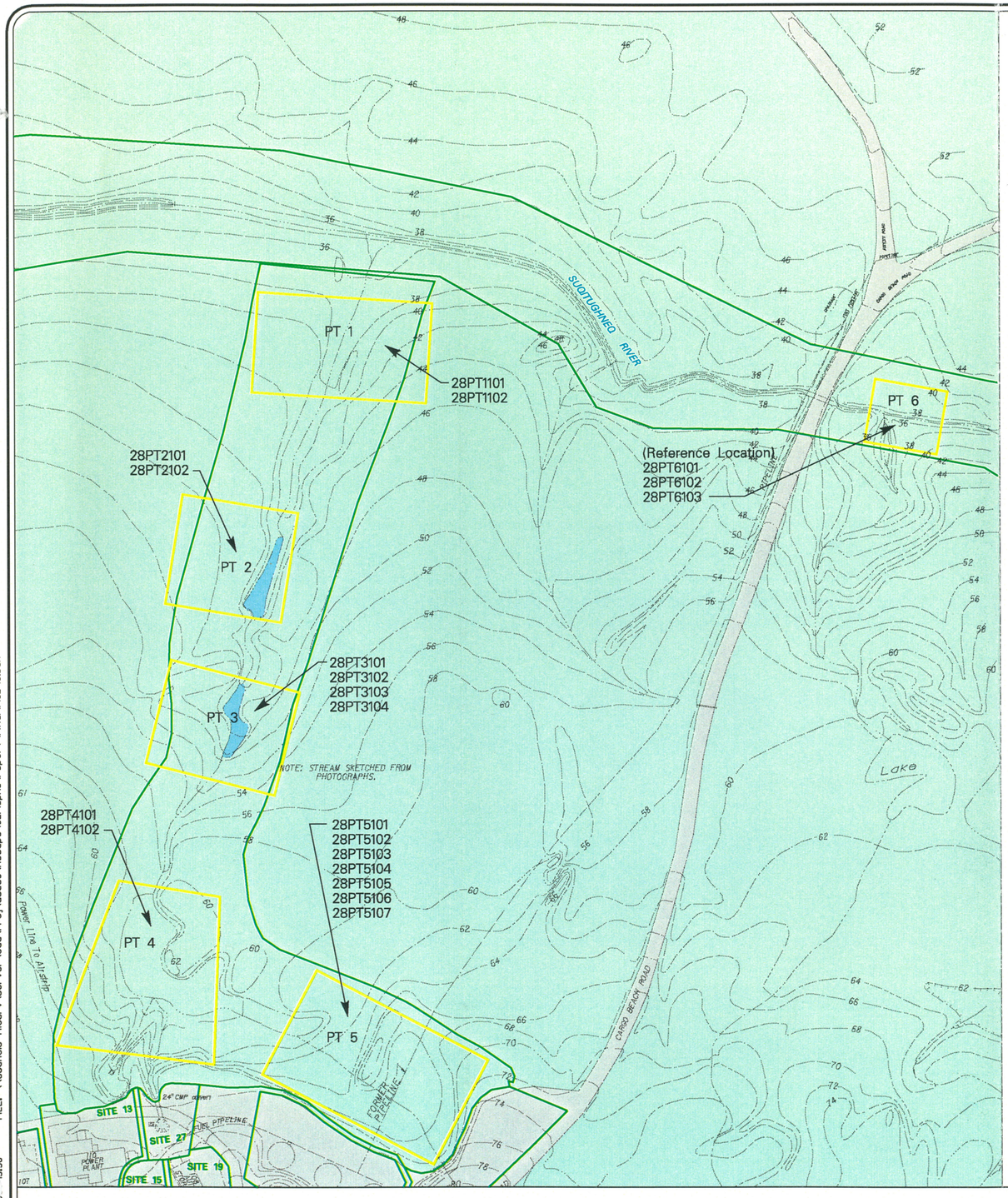
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FIGURE 2–18

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

SITE 28 – DRAINAGE BASIN
2001 CHROMIUM CONTOURS



PLANT SAMPLING – CROSS REFERENCE TO FIELD IDENTIFICATION, JULY 25, 2001

Plant No.	Purpose	Description	Native Name (Common Name)	Location	Reference Number	Sample Identification	Remarks
1	R	Lichen, white fuzzy	Mulck	PT 5	PT 5–1	01 NE 28 PT 5 101	
2	R	Lichen, yellow	Mulck	PT 3	PT 3–2	01 NE 28 PT 3 101	
3	R	Lichen, white, straw like	Mulck	PT 3	PT 3–3	01 NE 28 PT 3 102	
4	R&H	Bush, low woody willow, green leaves	Qugunqaq or Uqfigaq (Chamiso's Willow)	PT 5	PT 5–4	01 NE 28 PT 5 106	Leaves eaten
5	R	Moss, green		PT 1	PT 1–5	01 NE 28 PT 1 101	
6	R	Moss, very bright green		PT 4	PT 4–6	01 NE 28 PT 4 101	
7	R	Flowers, pink	(Langsdorf's Lousewort)	PT 2	PT 2–7	01 NE 28 PT 2 101	
8	R	Flowers, blue	(Tall Jacob's Ladder)	PT 3	PT 3–8	01 NE 28 PT 3 103	
9	R	Flowers, yellow, daisy	(Lessing's Leopardbane)	PT 5	PT 5–9	01 NE 28 PT 5 102	
10	R	Lichen, black on rocks	Mulck	PT 5	PT 5–10	01 NE 28 PT 5 103	
11	H	Bush, very low willow, green leaves, fluffy flowers	(Diamond–leaf willow)	PT 2	PT 2–11	01 NE 28 PT 2 102	Leaves eaten
12	H	Greens, succulent	Nunivak (Leaf Roseroot)	PT 5	PT 5–12	01 NE 28 PT 5 104	
13	H	Greens, cactus–like	Kitmmik (White Arctic Mountain Heather)	PT 5	PT 5–13	01 NE 28 PT 5 105	Greens eaten
14	H	Flower, fuchsia	Auqukaq	Not found			Leaves used
15	H	Greens, spinach–like, with red stack	Allqeggkaq	Not found			Leaves cooked, juice from stock (Napazio)
16	G	Grass, Rye 1		PT 1	PT 1–16	01 NE 28 PT 1 102	
17	G	Grass, Rye 2		PT 3	PT 3–17	01 NE 28 PT 3 104	
18	G	Grass, Rye 3		PT 4	PT 4–18	01 NE 28 PT 4 102	
19	RF	Lichen, white		PT 6	PT 6–19	01 NE 28 PT 6 101	RF to PT 5–1
20	RF	Bush, low woody willow, green leaves		PT 6	PT 6–20	01 NE 28 PT 6 102	RF to PT 5–4
21	RF	Greens, succulent		PT 6	PT 6–21	01 NE 28 PT 6 103	RF to PT 5–12
QC		QC Sample	See 01NE28PT104			01 NE 28 PT 5 204	
22	H	Berries, black	Kavlak	Unable to collect edible sample during field visits			
23	H	Berries, crow	Ququnqhaq (Black Crowberry)	PT 5	PT 5–23	01 NE 28 PT 5 107	Sampled 8–20–01
24	H	Berries, salmon	Aqavzik	Unable to collect edible sample during field visits			

Key:
1 – All samples submitted to laboratory for analysis of polynuclear aromatic hydrocarbons, polychlorinated biphenyls, and metals.
RF – reference samples PT – plant tissue
G – grass QC – quality control
H – human use R – reindeer food

LEGEND

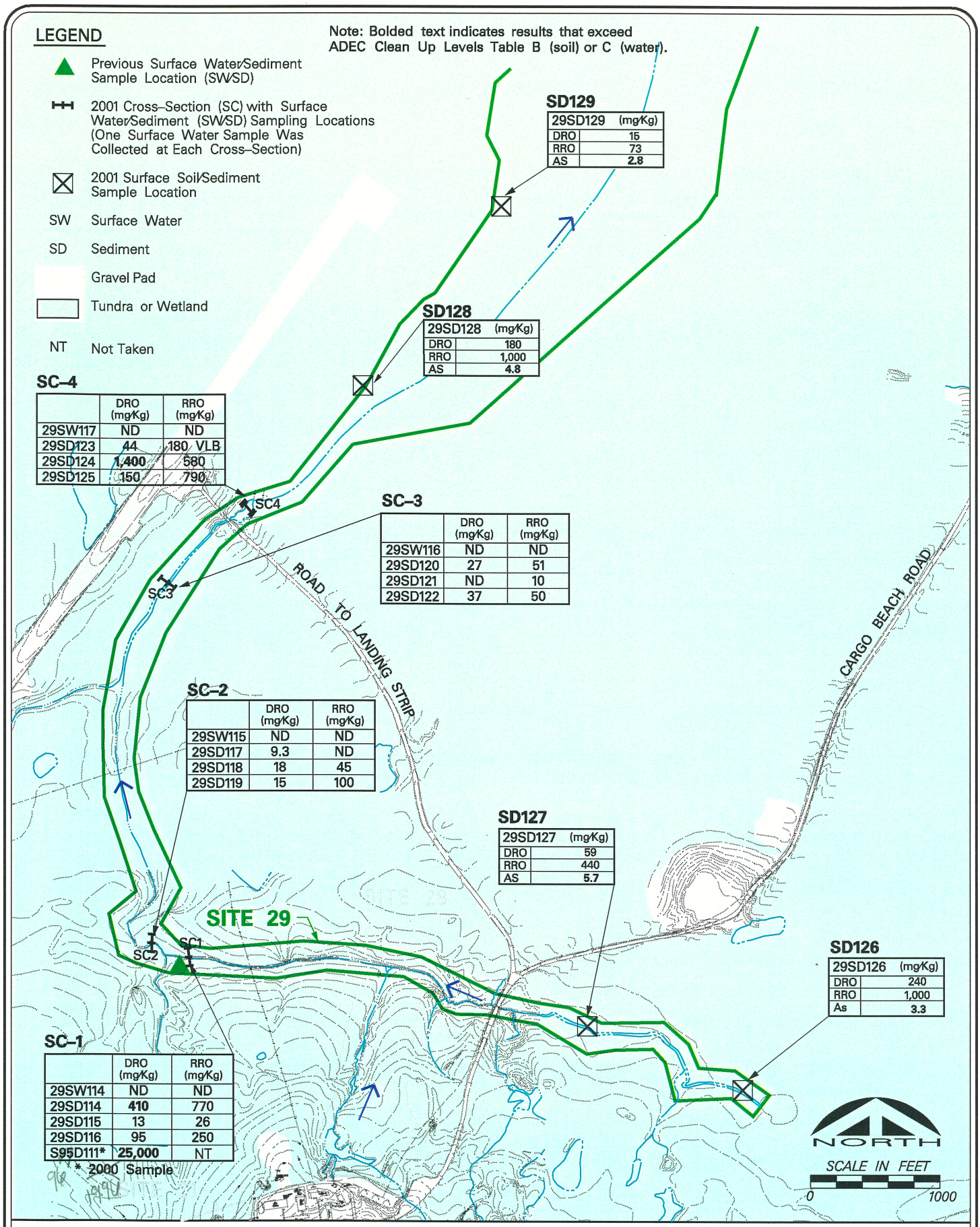
- Gravel Pad
- Tundra or Wetland
- 2001 Plant Tissue Sampling Location
- 28PT5101 2001 Sample Identification Number
- PT Plant Tissue

NORTH
SCALE IN FEET
0 240

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FIGURE 2–19
U. S. ARMY ENGINEER DISTRICT, ALASKA – N. E. CAPE, ALASKA
2002 PHASE III REMEDIAL INVESTIGATION
SITE 28 –DRAINAGE BASIN
2001 PLANT TISSUE SAMPLING LOCATIONS

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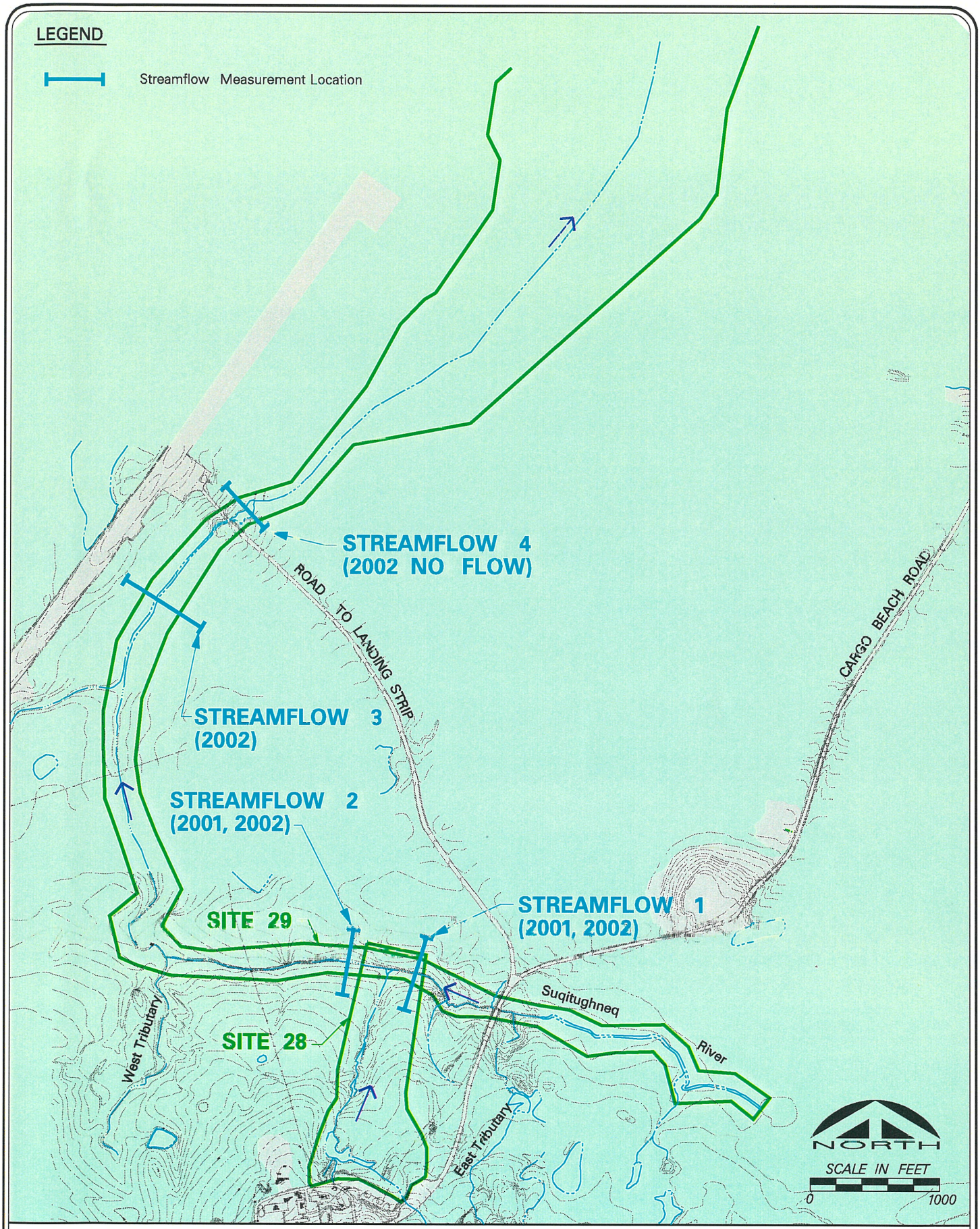
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FIGURE 2–20

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

SITE 29 – SUQITUGHNEQ RIVER
2001 SAMPLING LOCATIONS & SELECTED RESULTS



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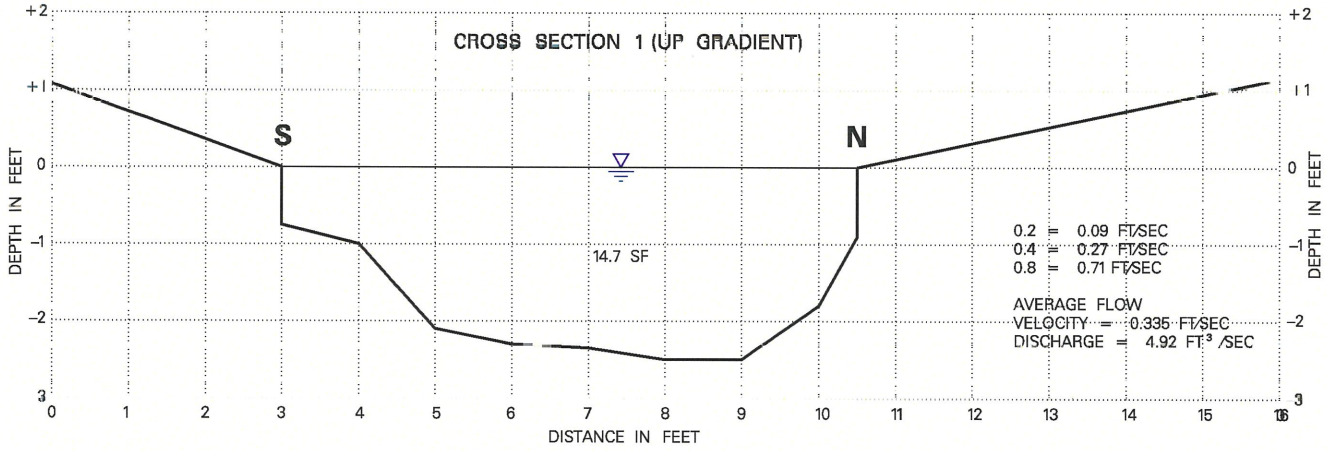
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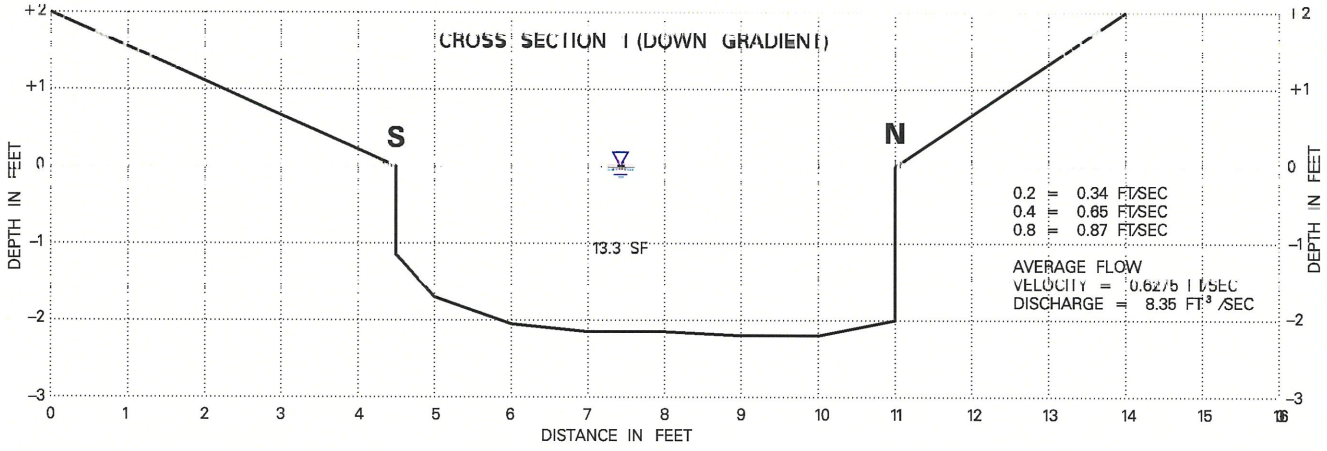
FIGURE 2–21

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

SITE 29 – SUQITUGHNEQ RIVER STREAMFLOW MEASUREMENT LOCATIONS



DRAINAGE BASIN DISCHARGE = 3.43 FT³/SEC



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
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 (ft2 /sec) to get discharge (ft3/sec)

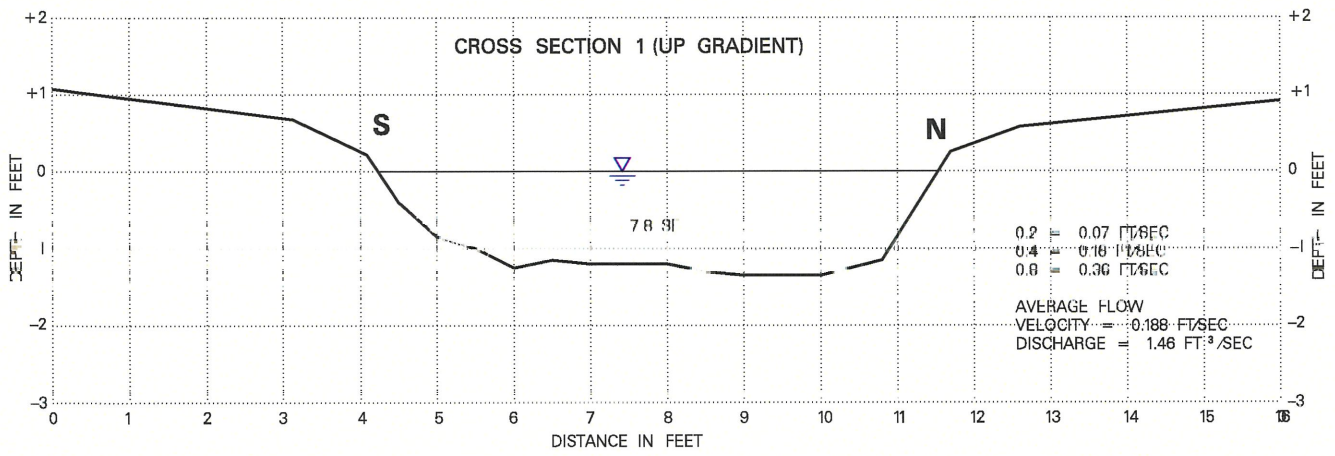
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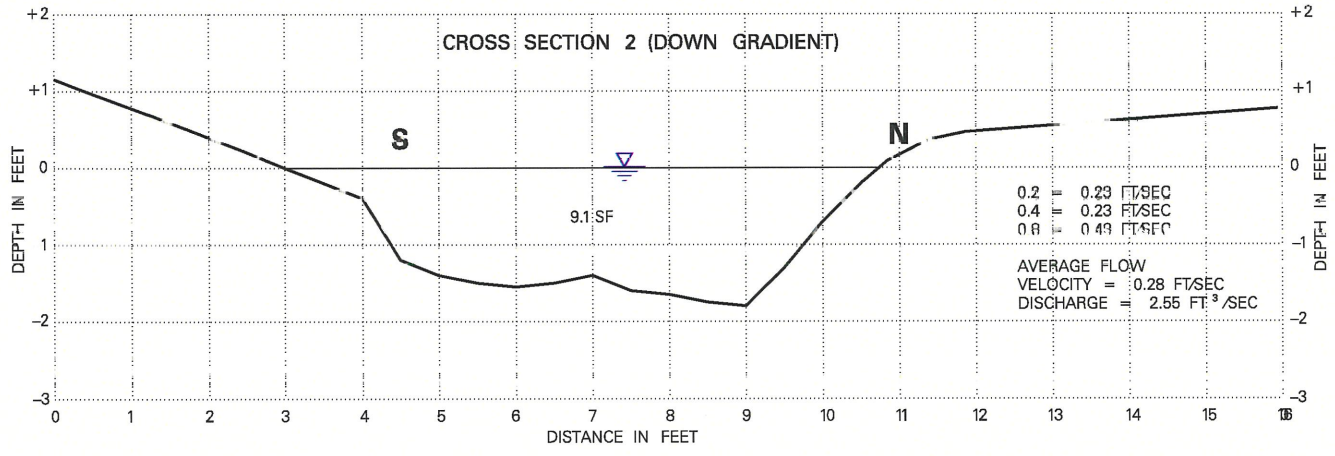
MWH
Anchorage, Alaska

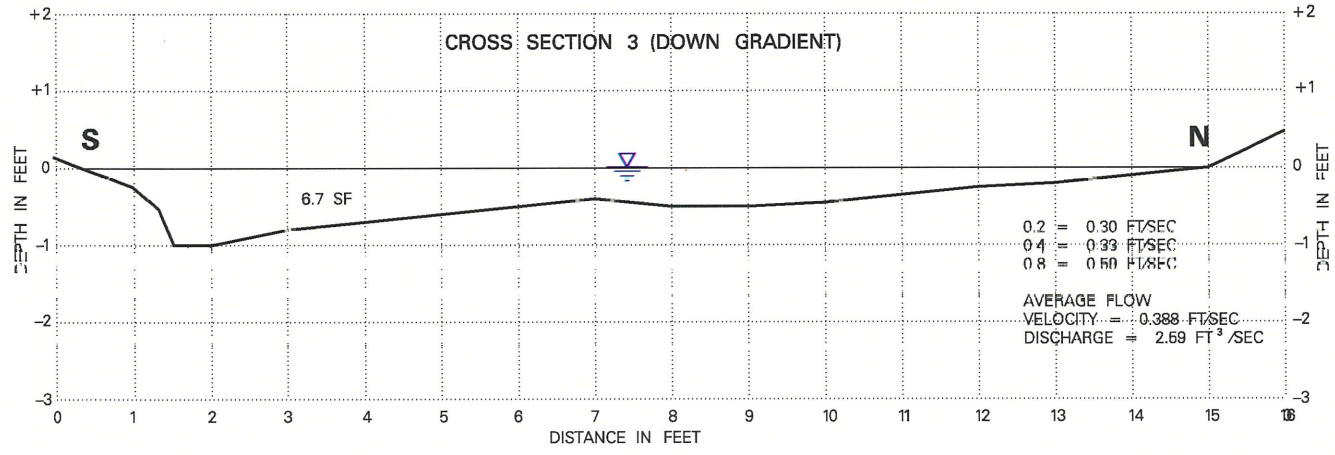
FIGURE 2–22

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

SITE 29 – SUQITUGHNEQ RIVER
2001 CALCULATION OF DRAINAGE BASIN DISCHARGE







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
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 (ft2 /sec) to get discharge (ft3/sec)

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Anchorage, Alaska

FIGURE 2–23

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

SITE 29 – SUQITUGHNEQ RIVER
2002 CALCULATION OF DRAINAGE BASIN DISCHARGE

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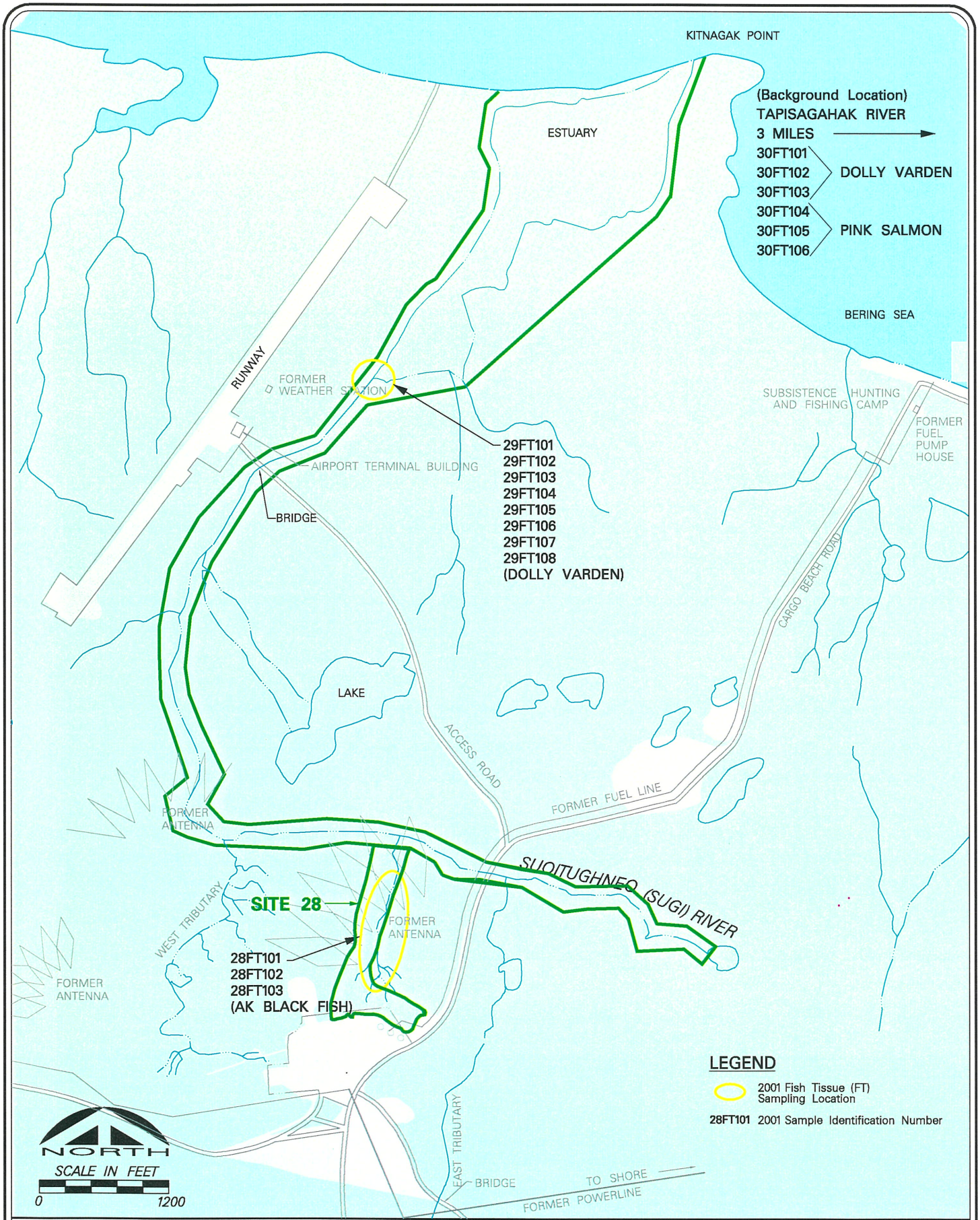


FIGURE 2–24

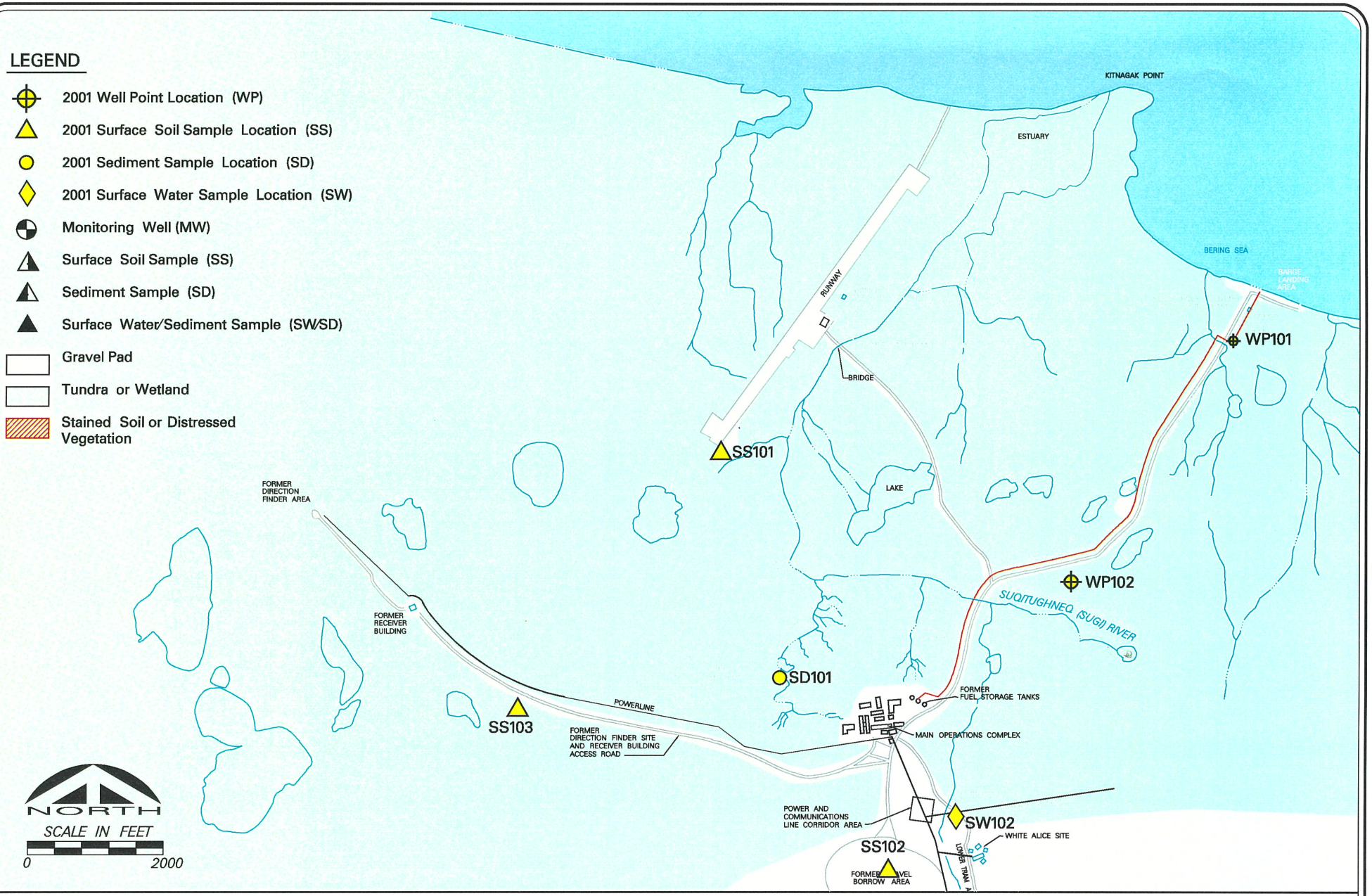
U. S. ARMY ENGINEER DISTRICT, ALASKA – N. E. CAPE, ALASKA
2002 PHASE III REMEDIAL INVESTIGATION

SITE 29 – SUQITUGHNEQ RIVER 2001 FISH TISSUE SAMPLING LOCATIONS

MWH
Anchorage, Alaska

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MWH
Anchorage, Alaska

FIGURE 2–25

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

SITE 30 – SOIL & WATER BACKGROUND AREAS
2001 SAMPLING LOCATIONS

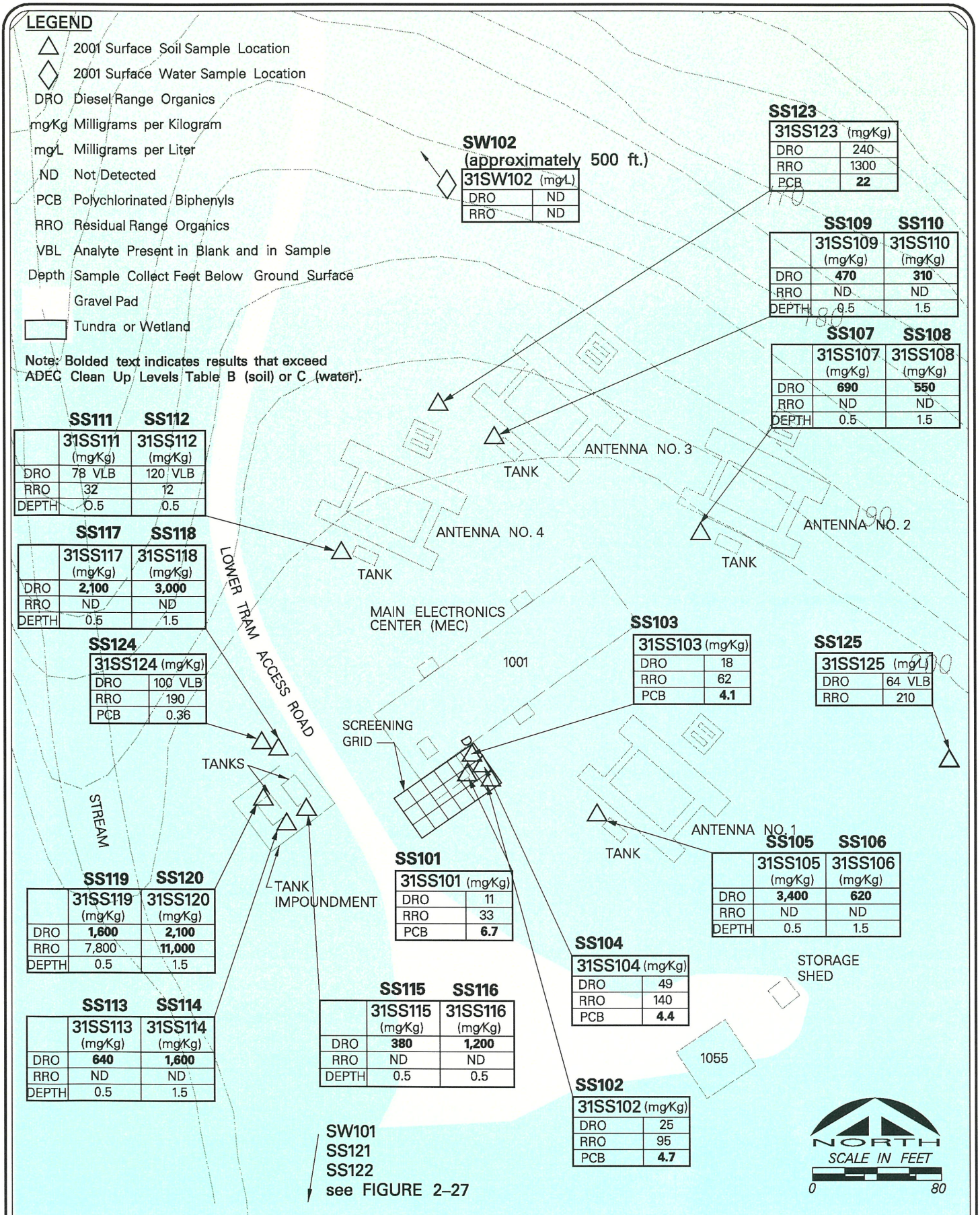


FIGURE 2–26

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

SITE 31 – WHITE ALICE SITE
2001 SAMPLING LOCATIONS & SELECTED RESULTS

MWH
Anchorage, Alaska

TIME: 24-MA .3 15:43 FILE: \\Usancls-filesrv\server\Cad\Proj\usace\necape\02r1_ph3\report\Final\FIG2-2...

SW101

31SW101 (mg/Kg)	
DRO	ND
RRO	ND

SS121

31SS121 (mg/Kg)	
DRO	47
RRO	350
PCB	ND

SS122

31SS122 (mg/Kg)	
DRO	**11,000**
RRO	7,800
PCB	ND

SS105

32SS105 (mg/Kg)	
DRO	**1,000**
RRO	3,600
PCB	0.89

SS104

32SS104 (mg/Kg)	
DRO	**600**
RRO	1,200
PCB	0.16

SS103

32SS103 (mg/Kg)	
DRO	230
RRO	1,100
PCB	ND

SS101 SS102

	32SS101 (mg/Kg)	32SS102 (mg/Kg)
DRO	**7,600**	**13,000**
RRO	ND	ND
DEPTH	0.5	1.5

NORTH

SCALE IN FEET

0 30

SUBSTATION TRANSFORMER BANK NO. 2

WATER WELL

ANCHOR PIT

AST (WATER)

AST (FUEL)

AST

PIPING

LOWER TRAM TERMINAL BLDG.

TO UPPER CAMP







LEGEND

- 2001 Surface Soil Sample Location (SS)
- 2001 Surface Soil/Subsurface Soil Sample Location (SS/SB)
- 2001 Surface Water Sample Location (SW)
- DRO Diesel Range Organics
- mg/Kg Milligrams per Kilogram
- ND Not Detected
- PCB Polychlorinated Biphenyls
- RRO Residual Range Organics
- AST Above Ground Storage Tank
- Gravel Pad
- Tundra or Wetland

Note: Bolded text indicates results that exceed ADEC Clean Up Levels Table B (soil) or C (water).

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Anchorage, Alaska

FIGURE 2-27

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

SITE 32 – LOWER TRAM TERMINAL
2001 SAMPLING LOCATIONS & SELECTED RESULTS

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TIME: 24-MAR-2003 15:43 FILE: \\Usancls-filesrv\server\Cad\Proj\usace\necape\02ri_ph3\report\Final\FIG2-28.DGN



SITE 33 SAMPLING

SS103

33SS103 (mg/Kg)	
DRO	**660**
RRO	2,100 VJ
PCB	ND

TO LOWER TRAMWAY

SS101

33SS101 (mg/Kg)	
DRO	170
RRO	300
PCB	ND

SS102

33SS102 (mg/Kg)	
DRO	150
RRO	270
PCB	ND

UPPER TRAM BUILDING

ENCLOSED TRACK MAN-LIFT

LEGEND

- △ 2001 Surface Soil Sampling Location
- DRO Diesel Range Organics
- mg/Kg Milligrams per Kilogram
- ND Not Detected
- PCB Polychlorinated Biphenyls
- RRO Residual Range Organics
- Crushed Rock Fill
- Tundra or Wetland
- Photo Orientation

Note: Bolded text indicates results that exceed ADEC Clean Up Levels Table B (soil) or C (water).

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Anchorage, Alaska

FIGURE 2–28

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

SITE 33 – UPPER TRAM TERMINAL
2001 SAMPLING LOCATIONS & SELECTED RESULTS

TIME: 24-MAR-2003 15:44 FILE: \\Usancls-filesrv\server\Cad\Proj\usace\necape\02ri_ph3\report\Final\FIG2-29.DGN

LEGEND

- 2001 Surface Soil Sample Location
- 2001 Surface Soil/Subsurface Soil Sample Location
- DRO Diesel Range Organics
- mg/Kg Milligrams per Kilogram
- ND Not Detected
- PCB Polychlorinated Biphenyls
- RRO Residual Range Organics
- Gravel Pad
- Tundra or Wetland
- Photo Orientation

ENCLOSED TRACK MAN-LIFT

FORMER SUBSTATION TRANSFORMER BANK NO. 3

221 RADOME

UPPER QUARTERS BUILDING

124

150,000-GALLON WATER TANK

FUEL TANK

OUTFALL

SCREENING GRID

ROAD

TO LOWER CAMP

SS104

34SS104 (mg/Kg)	
PCB	1.06

SS111

34SS111 (mg/Kg)	
DRO	7.1
RRO	30
PCB	ND

SS101

34SS101 (mg/Kg)	
DRO	47
RRO	150
PCB	ND

SS102

34SS102 (mg/Kg)	
DRO	14
RRO	77
PCB	ND

SS103

34SS103 (mg/Kg)	
DRO	13
RRO	76
PCB	ND

SS106

34SS106 (mg/Kg)	
DRO	**1,100**
RRO	58
DEPTH	**1.5**

SS105

34SS105 (mg/Kg)	
DRO	**980**
RRO	ND VQQ
DEPTH	0.5'

SS107

34SS107 (mg/Kg)	
DRO	41
RRO	95
PCB	0.05

SS110

34SS110 (mg/Kg)	
DRO	230
RRO	620
PCB	0.23

SS109

34SS109 (mg/Kg)	
DRO	**300**
RRO	1,200
PCB	0.21

SS108

34SS108 (mg/Kg)	
DRO	220
RRO	280
PCB	0.36



SITE 34 SAMPLING

NORTH

SCALE IN FEET

0 80

Note: Bolded text indicates results that exceed ADEC Clean Up Levels Table B (soil) or C (water).

MWH

Anchorage, Alaska

FIGURE 2-29

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

SITE 34 – UPPER CAMP
2001 SAMPLING LOCATIONS & SELECTED RESULTS

3.0 CONCLUSIONS AND RECOMMENDATIONS

This section contains conclusions and makes recommendations based on Phase III RI activities. Estimates of contaminated soil volumes are based on Phase III investigation and sample analyses. Further refinement of contaminated soil volumes is expected based on possible alternate cleanup levels and feasibility study.

Estimates of volume of contaminated soil at various sites were prepared using sample data from Phase III sampling and from previous sampling events. Volume was calculated using the deepest Phase III sample location where analyses showed an exceedence of the ADEC Method Two DRO soil cleanup level of 250 mg/Kg. This depth was multiplied by the length and width of the area estimated to be contaminated, then converted to cubic yards. These are preliminary estimates of in situ soil volume only, and will be subject to further revision in the Feasibility Study.

3.1 SITE 3 – FUEL LINE CORRIDOR AND PUMPHOUSE

The shallow groundwater at Site 3 is contaminated with DRO and RRO at concentrations above ADEC Table C groundwater cleanup levels. The sources of this contamination are believed to be the former pumphouse located at the site and an accompanying fuel pipeline, and former diesel fuel ASTs.

Shallow groundwater at Site 3 has been observed to be ephemeral in nature; therefore, estimates of the areal extent of contamination would be highly speculative. Continued removal of contaminated soil at the site should reduce the amount of contamination in the groundwater and is recommended as a possible remedial action.

3.2 SITE 4 – SUBSISTENCE FISHING AND HUNTING CAMP

The shallow groundwater at Site 4 is contaminated with DRO and RRO at concentrations above ADEC Table C groundwater cleanup levels. The sources of this contamination are believed to be drums that were previously stored at the site.

Shallow groundwater at Site 4 has been observed to be ephemeral in nature; therefore, estimates of the areal extent of contamination would be highly speculative. Removal of contaminated soil at the site should reduce the amount of contamination in the groundwater and is recommended as a possible remedial action.

3.3 SITE 6 – CARGO BEACH ROAD DRUM FIELD

Soil at Site 6 is contaminated with DRO and arsenic and groundwater is contaminated with metals including arsenic, beryllium, cadmium, chromium, lead, nickel, thallium, and zinc, at concentrations above ADEC cleanup levels. Sources of this contamination are drums and ASTs that were formerly present at the site. Soil and groundwater contamination are closely related because, in the absence of ephemeral groundwater, contamination resides in the soil.

Well point 6-2 is the furthest downgradient sample to the north and was free from contamination in 2001 indicating no fuel contamination has migrated off site through shallow groundwater.

Samples collected from test pits excavated to a depth of 5.3 feet bgs indicate DRO contaminated soils above the ADEC Method Two cleanup level are present to that depth over an area of 35,000 square feet, for a total of approximately 7,000 cubic yards (cy) of in-situ DRO-contaminated soil. Calculation of volume of contaminated soil can be found in Appendix K. Contamination appears to extend to the bedrock surface, 5 to 6 feet bgs. Removal of contaminated soil at the site should reduce the amount of contamination in the groundwater and is recommended as a possible remedial action.

3.4 SITE 7 – CARGO BEACH ROAD LANDFILL

Soil at Site 7 is contaminated with DRO, PCBs and metals including arsenic, chromium, lead, and nickel at concentrations above ADEC cleanup levels. Groundwater at Site 7 is contaminated with RRO, chromium, lead, and nickel. Site contamination is attributed to materials dumped here while the site was used as a landfill, and materials stored at the landfill.

PCBs were only detected in soil samples collected from within the exposed debris mass on the southeastern side of Cargo Beach Road. This debris is believed to have been dumped here after the road was constructed and is not connected to the main portion of the landfill. This debris is scheduled for removal by Bristol in 2003.

The amount of RRO compared to DRO in groundwater samples collected from well points to the north and west of the landfill suggests degradation of hydrocarbons in groundwater or biogenic interference due to the prevalence of peaty material at the sample locations. Diesel fuel that has degraded over time may show a prevalence of RRO (C_{25}-C_{36}) over DRO (C_{10}-C_{25}) in samples due to the breakdown nature of the hydrocarbons.

The difficulty in obtaining samples from the well points indicates poor transmission of groundwater in the shallow zone. Even well points that were installed in saturated soil required several days to sample, suggesting the porewater is closely held within the active layer.

Large concentrations of debris are present at Site 7, primarily along the northwestern edge and on the southeastern toe of the landfill, which is exposed and eroding. Currently, the site does not qualify for closure under ADEC's landfill closure criteria as described in 18 AAC 60.390. To qualify for closure as a Class III landfill, the landfill would have to be capped by at least 24 inches of ADEC-approved material, graded to promote drainage, revegetated, and free from contamination.

3.5 SITE 9 – HOUSING AND OPERATIONS LANDFILL

Soil at Site 9 is contaminated with DRO and metals including arsenic, antimony, cadmium, chromium, lead, and nickel at concentrations above ADEC cleanup levels. Groundwater is contaminated with RRO, antimony, beryllium, lead, and nickel. Site contamination is attributed to materials dumped here when the site was used as a landfill, and materials stored at the landfill.

Several piles of debris are present on the ground and in water bodies around the site. On-site surface water pathways contribute to erosion of the landfill cap and transport of contaminants downgradient.

Site use at Site 9 appears to have varied during the years the installation was active. Figures and drawings from this time indicate this area as a storage area, as well as a debris dump.

Currently, Site 9 does not qualify for closure under ADEC's landfill closure criteria as described in 18 AAC 60.390. Further investigation of source areas is recommended to evaluate the remaining debris as a source of soil and groundwater contamination. To qualify for closure as a Class III landfill, the landfill would have to be capped by at least 24 inches of ADEC-approved material, graded to promote drainage, revegetated, and free from contamination.

3.6 SITES 13, 15, 19, 20, AND 27 – MAIN OPERATIONS COMPLEX (SITE 88)

Soil and groundwater at Site 88 is contaminated with petroleum hydrocarbons, benzene, naphthalene, and chromium. Contamination at this site might be attributed to various site activities such as the storage and use of fuels and lubricants at several locations. Site 20 was not originally included in the Phase III RI because no apparent source areas had previously been identified. Investigations in 2002, however, indicated that DRO contamination was present, so Site 20 was identified as a potential site.

Investigations conducted in 2002 indicate the presence of DRO in soil above the Method Two cleanup level at depths ranging from the surface to 26 feet bgs at Site 88. Gravel fill at Site 88 ranges from 1 to 3 feet thick around the edges to 10 to 14 feet thick near the center. DRO contamination appears to have infiltrated the native soil below the fill to a depth of at least 26 feet bgs in some areas. DRO concentrations above the ADEC Method Two cleanup level might be present in as much as 85,000 cy of in-situ soil at Site 88. Calculation of volume of contaminated soil can be found in Appendix K.

Installation of MW 88-10 at Site 20 in 2002 met with refusal at 27.5 feet bgs on a hard rock surface. No indication of contamination was evident until approximately 24 feet bgs, when a fuel odor was noticed by field personnel. The presence of contamination at this depth, along a hard rock surface, indicates that this surface may act as a collection and transport zone for upgradient contaminants. A closer review of possible upgradient source areas is recommended.

Detection of DRO in MW 88-10 and downgradient wells suggests a contaminant plume that extends from MW 88-10 downgradient towards the drainage basin. High concentrations of DRO in groundwater samples suggests a possible free-product source remains upgradient.

The results of investigations conducted during the 2002 fieldwork provide significant evidence of the effect of permafrost and/or frozen soils on shallow, perched groundwater lenses present throughout Site 88. The thickness of fill material has a significant impact on the thermal characteristics of the native soil. Soil borings, such as SB-11 and SB-12, placed near the edge of the gravel pad where the fill material is 1 to 3 feet thick, encountered frozen native soil at a depth of 3 feet bgs and extending to the bottom of the boring at 14 feet bgs. Whereas SB-14, located

approximately 50 feet away and upgradient of SB-11 and SB-12 in an area with 4 to 6 feet of fill, encountered no frozen soils between zero and 14 feet bgs, with groundwater located at 14 feet bgs.

Perhaps because of these areas of frozen soil, the availability of groundwater in monitoring wells varied greatly over a short distance. MW 88-6, near the edge of the fill, had very low recharge requiring several visits over many hours to recover one sample volume. In contrast, MW 88-7, located in approximately 12 feet of fill, had ample flow, allowing for well development and sampling the next day with little or no drawdown in the well.

The proximity of these borings to each other with their respective thermal characteristics suggests a significant transition from unfrozen to frozen soils in a relatively short distance. The presence of these frozen soils may impact the site in several ways:

- A vertical transition from unfrozen to frozen soil may act as a barrier to migration of water or contaminants downgradient, forcing groundwater above or around the frozen soil barrier.
- Horizontal layers of frozen soil may act as confining layers between the deep aquifer and the shallow, perched groundwater present throughout the complex.
- Horizontal layers of frozen soil may act as collection zones for groundwater or contaminants.
- The presence of fill likely creates a thaw bulb below the filled area, the size and shape of which mirrors the topography of the fill. This could account for discrepancies in water availability in some monitoring wells.

Lithologic cross-sections in Figures 2-7 through 2-9 show the depth to contamination in boreholes at the site, as well as groundwater elevations. Groundwater flow appears to mirror the surface topography, generally flowing downgradient to the Drainage Basin. Cross-sections also show the thickness of fill at various locations, represented by the 'SP' unit. The boundary between the fill and the native soil is approximate, as the fill was place on top of similar material.

Continued monitoring is recommended for Site 88.

3.7 SITE 14 – EMERGENCY POWER/OPERATIONS BUILDING

Soil contaminated with PCB Aroclor™-1260 is present at Site 14 near the location of a former transformer bank. Of the three samples with the highest immunoassay screening results, two had PCB concentrations above the Method Two cleanup level. The absence of PCBs above the cleanup limit in nearby samples suggests the contamination may be limited to a small area near the former transformer bank of approximately 10 cy. Calculation of the volume of contaminated soil can be found in Appendix K. Hot spot soil removal is recommended.

3.8 SITE 16 – PAINT AND DOPE STORAGE BUILDING

No contaminants were detected in soil or groundwater above ADEC Method 2 cleanup levels at Site 16. No further action is recommended.

3.9 SITE 21 – WASTEWATER TREATMENT FACILITY

Soil and sediment at Site 21 is contaminated with DRO, arsenic, and/or chromium at concentrations above ADEC Method Two cleanup levels. Sources of this contamination might be the concrete settling tanks, the pipeline, or other upgradient sources. Contaminated soil is found near the settling tanks, along the sewage pipeline, and near the pipeline outfall in a wetland area west of the Main Operations Complex.

DRO in soil exceeded the cleanup level in subsurface samples collected 1.5 to 2 feet bgs. Total depth of contamination is unknown, but may extend to the bedrock surface, 6 to 8 feet bgs.

Extrapolation between sample locations suggests that approximately 5,000 cy of in-situ soil may be contaminated with DRO above the cleanup level. Calculation of volume of contaminated soil can be found in Appendix K. Further evaluation through risk assessment is recommended.

3.10 SITE 22 – WATER WELLS AND WATER SUPPLY BUILDING

Groundwater at Site 22 contaminated with DRO and RRO was found in one of three potable wells sampled. An AST associated with this well is believed responsible for contamination in the well. This contamination appears very localized, since nearby wells downgradient were non-detect for petroleum hydrocarbons.

Removal of contaminated soil associated with this former AST is recommended as a way to remediate the groundwater in the area.

Two boreholes, 32 and 36 feet bgs, were drilled in 2002. No sign of contamination was noted by field personnel and no fuel contamination was detected. The boreholes stopped at 32 and 36 feet bgs, where they met refusal on a hard rock surface. This surface, similar to that found in MW 88-10 at Site 20, might act as a collection zone for contaminants, the absence of which indicates little or no contamination upgradient from these boreholes.

As of August 2002, the three potable wells had been decommissioned.

3.11 SITE 24 – RECEIVER BUILDING AREA

Sediment at Site 24 is contaminated with DRO, antimony, and arsenic above ADEC cleanup levels. Samples were collected from a debris-filled pond on the site. Removal of exposed debris is recommended as a way to remediate sediment contamination.

3.12 SITE 26 – FORMER CONSTRUCTION CAMP AREA

No contamination was found in the groundwater from the potable well formerly located at Site 26. As of August 2002, this well had been decommissioned. No further action is recommended.

3.13 SITE 28 – DRAINAGE BASIN

Sediment in the Drainage Basin is contaminated with DRO, RRO, chromium, lead, naphthalene, PCBs, and 2-methylnaphthalene at concentrations above ADEC cleanup levels. Sources of these contaminants are upgradient areas such as the MOC (Site 88) and Sites 10 and 11, where large fuel releases have occurred in the past. Data suggest approximately 30,000 cy of in-situ sediment contaminated with DRO above the Method Two cleanup level might be present at the site. Calculation of volume of contaminated soil can be found in Appendix K.

Contamination in the Drainage Basin appears most concentrated near the outfalls from the MOC, as shown on Figures 2-15 through 2-19. The highest concentrations of lead, chromium, PCBs, naphthalene, and 2-methylnaphthalene, plus high concentrations of DRO, were found in samples from these areas – suggesting that upgradient source areas continue to contribute contamination to the Drainage Basin. The only exceedence of the ADEC cleanup level for PCBs was in this area. Similarly, the only regulatory exceedence in a surface water sample was from this area.

Samples collected near the outfall from Sites 10 and 11, which contributed the largest known release to Site 28, have lower concentrations of DRO and chromium and no RRO, lead, naphthalene, or 2-methylnaphthalene. This suggests that these areas no longer contribute significant amounts of contamination to Site 28, and might have experienced some natural attenuation of petroleum hydrocarbons.

The main channel of the Drainage Basin is contaminated with DRO, RRO, naphthalene, and 2-methylnaphthalene. Samples from cross-sections nearest the Suqitughneq River show DRO and chromium above ADEC Method Two cleanup levels. Though present above cleanup levels, the concentration of contaminants here is generally less than at areas closer to the upgradient sources. This may indicate that, while some contamination is reaching the Suqitughneq River from the Drainage Basin, the highest concentrations remain near the source areas.

Removal of upgradient sources and hot spots is recommended.

Plant tissue samples collected from Site 28 were analyzed as whole plant samples (roots, leaves, stem, flowers, and non-berry fruits) per the Biological Sampling Plan (MWH, 2001a), whereas the whole plant is rarely consumed by humans or reindeer. The result of this is analytical data that does not appropriately represent the consumption patterns of subsistence users. Fleshy plant roots that remain in the ground all year would be much more likely to absorb and retain contaminants than the greens, leaves, or berries eaten by humans or reindeer. Collection and analysis of specific plant parts utilized as a food resource is recommended to appropriately gauge contaminant concentrations in subsistence plant resources.

Fish and plant samples collected from the Drainage Basin will provide data for the Human Health and Ecological Risk Assessment. Data from fish and plant sampling is included in Appendix D; however, interpretation of this data will be performed in the risk assessment.

3.14 SITE 29 – SUQITUGHNEQ RIVER

Sediment samples collected along the Suqitughneq River show DRO contamination unevenly distributed from below the Drainage Basin to the lagoon. Two samples had DRO above the cleanup level; however, these samples were widely spaced – indicating possible contamination along the length of the river below the Drainage Basin. Bends or pools in the river would act as collection zones for contaminants where the river slows, depositing contamination in specific locations. Data suggest approximately 6,000 cy of in-situ sediment contaminated with DRO above the Method Two cleanup level might be present at the site. Calculation of volume of contaminated sediment can be found in Appendix K.

Arsenic was detected above ADEC cleanup levels in sediment samples collected along the Suqitughneq River. No PCBs were detected in any water or sediment samples from the Suqitughneq River, and no other contaminants were detected in surface water samples.

Continued surface water and sediment monitoring is recommended.

Dolly Varden collected from the Suqitughneq River lagoon had detectable concentrations of contaminants such as metals and PCBs. Some samples had detectable concentrations of PAHs, whereas PAHs were not detected in background fish samples from the Tapisaghak River.

Fish collected from the Suqitughneq River lagoon will provide data for the Human Health and Ecological Risk Assessment. Data from fish sampling is included in Appendix D; however, interpretation of this data will be performed in the risk assessment.

3.15 SITE 30 – BACKGROUND AREAS

Samples collected from background areas in 2002 contained concentrations of contaminants similar to many other samples collected throughout the site. Some background samples were collected from areas that were less impacted than other sites. SS102 was collected from 1.5 feet bgs in the gravel borrow area, on the side of the mountain. This gravel soil sample contained arsenic, chromium, and lead at 4.4, 52.1, and 28 mg/kg, respectively. The volcanic nature of the material sampled and the location of the sample suggests that these concentrations of metals may best represent their ambient concentrations in the installation area.

Background fish samples collected from the Tapisaghak River had concentrations of metals and PCBs similar to those found in primary samples. Background fish samples, however, contained fewer PAHs than in primary samples.

Samples identified as background during the Phase III investigation are believed to represent biological and environmental media that have not been impacted or have been minimally impacted by site activities. These samples, however, do not represent a comprehensive, statistically generated analysis of background conditions at the installation.

3.16 SITE 31 – WHITE ALICE SITE

Soil at Site 31 is contaminated with DRO and PCBs above the ADEC Method Two cleanup levels. DRO contamination is concentrated near ASTs used to heat the antennae and provide fuel for the site activities. PCB contamination is concentrated near a former transformer pad and near an outfall pipe between Antennae 3 and 4.

DRO contamination associated with ASTs appears to be localized within tank impoundments and near tank valves. Assuming localized contamination at each of the tanks, and a PCB hotspot near a pipe outfall, a total of 235 cy of in-situ contaminated soil might be present site-wide. Approximately 10 cy of PCB-contaminated soil may be present near the former transfomer pad at Building 1001. Calculation of volume of contaminated soil can be found in Appendix K. Contaminated soil will be further evaluated in the Risk Assessment.

Surface water samples collected from the East Tributary show no signs of contamination.

Removal of contaminated soil hot spots is recommended.

3.17 SITE 32 – LOWER TRAM TERMINAL

Site 32 has DRO contamination above the ADEC Method Two cleanup level in three locations; near an AST, beneath the tram cables, and within the anchor pit. The approximate volume of DRO contaminated soil is 60 cy. Calculation of volume of contaminated soil can be found in Appendix K. Visual inspection of the area revealed no sign of contamination outside of the sample collection areas where petroleum products were stored and used. Removal of contaminated soil hot spots is recommended.

No PCBs were detected near the former transformer pad.

3.18 SITE 33 – UPPER TRAM TERMINAL

Site 33 contains DRO above the ADEC cleanup level at one location beneath the tram cables. The area sampled was rocky with thin soils and contamination appears limited to approximately 1 in-situ cy. Calculation of volume of contaminated soil can be found in Appendix K.

Feasibility of removal actions should be considered in the feasibility study.

3.19 SITE 34 – UPPER CAMP

Site 34 has DRO contamination above the cleanup level in several discreet locations; beneath an AST and near the outfall of a pipe downgradient of the tank. The area sampled was rocky with thin soils and contamination appears limited to approximately 20 in-situ cy. Calculation of volume of contaminated soil can be found in Appendix K.

Feasibility of removal actions should be considered in the feasibility study.

PCBs were detected above the cleanup level near the former transformer pad. Volume of PCB contaminated soil is minimal due to thin soils and is estimated at 2 cy.

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DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, ALASKA
P.O. BOX 6898
ELMENDORF AFB, ALASKA 99506-6898

REPLY TO
ATTENTION OF:

September 11, 2003

Programs and Project Management Division
Civil Works Branch

Mr. Jeff Brownlee
Alaska Department of Environmental Conservation
555 Cordova Street
Anchorage, Alaska 99501

Dear Mr. Brownlee:

As you are aware, the U.S. Army Corps of Engineers has received considerable commentary from the public regarding our cleanup investigations at the Northeast Cape Project. The majority of the critical commentary has come from the Alaska Community Action on Toxics (ACAT) and TAPP provider Dr. Ron Scrudato. The Corps is committed to putting forth an honest effort into fully cleaning up the former Department of Defense sites at NE Cape. In order to do that, we must have a defensible remedial investigation record.

To that end, we are sending you a table that summarizes comments we have received on our NE Cape Project that generally contend our investigation shows inadequate site characterization. This compilation of comments is arranged by site, and limited to those comments where the Corps disagrees with the action suggested by the comment. In order to proceed with cleanup efforts comfortably, we feel it is necessary to have concurrence from the State of Alaska that we have adequately investigated the site and can proceed with a Feasibility Study to devise a cleanup project. If the ADEC feels, upon evaluation of submitted comments, that more investigation is warranted, we would seek your advice in bringing the investigation up to ADEC standards.

I recognize we are not dealing with exact science here. In many instances site characterization involves a judgment call. I'm sure that if we were to do twice as much sampling, we would find some additional areas of contamination. Our mandate is to accomplish investigation/cleanup in accordance with regulations, and in a cost-efficient manner within the bounds of practicality. We know that additional sampling will occur as part of the confirmation process after site cleanup. But in some instances, it may certainly be more cost effective to know what you're dealing with before remedial actions take place.

The Corps is requesting that you review the enclosed summary table of comments and Corps responses. We are seeking concurrence on the Corps responses to these comments and any proposed course of action. If the ADEC feels that further investigation is warranted, we would consider additional sampling or other measures to satisfy regulatory guidance. I believe you mentioned at the last RAB Meeting that you were initiating a review of public comments on your own. We hope this table will assist you in that effort. It would be a great benefit to the project for you to provide guidance in the settlement of site concerns. If you would like to discuss any of the sites in question, we could set up a meeting, or you could call either Lisa Geist or me.

As always, I can be reached at (907) 753-2689, or e-mail me at carey.c.cossaboom@poa02.usace.army.mil.

Sincerely,



Carey Cossaboom
FUDS Project Manager

Enclosure

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Northeast Cape – Remedial Investigation Summary by Site

Site	Stakeholder Concerns	Actions Completed or Scheduled	Corps Position
1 – Burn Site SE of Airstrip	Inadequate site characterization. No testing for potential contaminants of concern, including PCBs, dioxins, metals, and DRO. Soils should have been tested before the site was declared No Further Action (NFA). Runoff passing through this area moves directly into the Suqi, entering just upstream of the runway bridge. The area upstream of the runway bridge was declared a "stressed" site by the contractor ENRI (Environmental and Natural Resources Institute, University of Alaska Anchorage). They noted lower invertebrate taxa richness than was expected for physical and chemical stream conditions, and also noted high sediment toxicity as determined by bacterial assay.	Field checked by visual observations. No further action recommended.	During a July 1992 site visit by Ecology and Environment (E&E 1992), the field team investigated this site based on reports from the community that it was formerly used for the burning of fuel oil collected in absorbent materials. The field team found several slight depressions in the tundra between 100 and 300 feet east of the runway near its southern end. These depressions contained no debris, burn marks, soil staining, odor, sheen, or ash. Only a minor amount of debris was found scattered adjacent to and along the length of the airstrip. The field team concluded no further investigation was required. During the Phase I Remedial Investigation in 1994, Montgomery Watson found no physical indications, such as distressed vegetation or charred debris suggesting a burn area. Accordingly, Site 1 was not investigated further. Furthermore, we would not expect the burning of oil-saturated absorbent pads to produce dioxins or significant metals. The area investigated by ENRI and reported as "stressed" is located due east of the airport terminal, from 50 meters below to 200 meters above the airport road bridge crossing and appears to be approximately 2000 feet north (downgradient) of the reported Site 1 location. Based on the numerous field observations, we do not believe that soil testing is necessary. Sediment in the Suqi River has been tested downgradient of Site 1 (see cross section 3 from Phase III investigation) and the results do not show significant diesel or residual range organics contamination. No further action is recommended, based on the findings of prior phases of investigation at the site.
Site	**Stakeholder Concerns**	**Actions Completed or Scheduled**	**Corps Position**
2 – Airport Terminal and Landing Strip	Inadequate site characterization. No attempt has been made to see if PCBs flush off runway into the Suqi River. Runoff would enter the Suqi both upstream and downstream of the runway bridge. When these locations were tested by ENRI, both were found to be stressed (low	Nugget Construction removed miscellaneous debris and a large fuel tank during an interim removal action (2000). Transformers had been previously removed. The Airport Terminal Building and	During the Phase I remedial investigation (1994), three soil samples were collected from Site 2. One sample was collected and analyzed for petroleum/ oil/lubricants (POLs including DRO, GRO, TRPH and BTEX), one sample was collected and analyzed for POLs and metals associated with spent engine lubricating oils, and one sample was collected and analyzed for PCBs. Arsenic, mercury and selenium were not analyzed for because these metals are not expected in lubricating oils. The chemical sampling plan for the Phase I investigation recommended analytical tests based on the most probable

Site	Stakeholder Concerns	Actions Completed or Scheduled	Corps Position
3 – Fuel Line Corridor and Pumphouse	Inadequate site characterization. Aerial extent of groundwater contamination is unknown. Analytical results from Phase III investigation were limited to DRO and RRO. Need testing for other contaminants. Are other contaminants present or likely at this site? Why was the list of analytes restricted to these substances? What about solvents?	Nugget Construction removed 8,000 feet of pipeline, and partially removed the pumphouse building during 2000-2001. Nugget also excavated stained soils (12.6 Tons) from Site 3 in July 2001. Bristol Environmental demolished the remaining concrete sidewalls during 2003.	During the Phase I remedial investigation (1994), 5 samples were collected at Site 3, based on areas/sources of most likely contamination. Although solvents (we assume the concern is chlorinated solvents) may have been used in small quantities during maintenance procedures, use of large volumes is unlikely to have occurred. Since this site contained a fuel line and pumphouse, the targeted analytes in the initial investigation phase were: fuels, volatile organic compounds (VOCs), PCBs, and priority pollutant metals (excluding arsenic, mercury, and selenium because these metals are not expected to be present in spent lubricating oils). One location containing abandoned batteries was tested for the presence of lead. The surface soil samples were located as follows: one inside the pumphouse building, one in front of the entryway (near batteries), one below an abandoned engine block, and two below and downslope of the remaining ASTs. Two samples were analyzed for DRO, GRO, TRPH, BTEX, PCBs, and RCRA metals. One sample was analyzed for DRO, GRO, TRPH, and BTEX. One sample was analyzed for VOCs, and one sample was analyzed for total lead. Only DRO was retained as a contaminant of concern, because of surface soil contamination (SS101 with 3,760 mg/kg). Low levels of PCBs (0.290 to 0.750 mg/kg) and lead (27 to 119 mg/kg) were detected in surface soils, but below the ADEC Method 2 cleanup levels for residential exposure. During the Phase II investigation (1998), a well point was installed at Site 3 to evaluate possible migration of fuel contamination. One subsurface water sample was collected and analyzed for DRO, BTEX, and PAH. The detections of BTEX and PAH were below cleanup criteria, but DRO (14 mg/L) exceeded the ADEC groundwater cleanup level of 1.5 mg/L. Therefore, three additional well points were installed during the Phase III investigation (2001) to refine the extent of DRO contamination in the perched shallow groundwater. The target list of analytes was narrowed to DRO and RRO based on prior phases of the remedial investigation. The well points were intended to further delineate the extent of groundwater contamination by stepping out from previous locations of documented contamination. The groundwater samples contained DRO from 1.8 to 3.3 mg/L, and RRO from 1.3 to 8.1 mg/L. It appears that the extent of groundwater contamination which exceeds the ADEC Table C values may be greater than anticipated. However,

			The Bering Sea is located approximately 500 feet downgradient of well-point WP4-3. It is unlikely that shallow groundwater contributes a significant volume of water to the surface water interface with the Bering Sea. The well-points in this vicinity have not generated large amounts of water during sampling activities. Sampling of marine sediment and ecological receptors is not warranted. Site 4 will be evaluated in the risk assessment. The shallow groundwater will be considered a potential drinking water source, and the site retained for further evaluation of remedial alternatives in the feasibility study. However, we believe no further sampling is required at this time.
Site	**Stakeholder Concerns**	**Actions Completed or Scheduled**	**Corps Response**
5 – Cargo Beach	Inadequate site characterization. Despite obvious soil staining and cans of dielectric oil (probably contain PCBs), and recommendations from previous contractors that the area be extensively sampled, MWH has taken only three surface soil samples, all from the same location. Neither water samples nor product samples from drums have been taken.	Scattered 55-gallon drums were removed by Nugget Construction during 2000. The 9 cans of dielectric oil reported by URS (1986) have been removed according to E&E (1993).	URS (1986) conducted a preliminary reconnaissance of the site to develop material inventories for preparation of bid documents to implement cleanup of the site. A limited number of samples were collected during their investigation. Soil grab samples collected during their preliminary reconnaissance indicated that PCB contamination may be present. Two out of three samples collected from areas of stained soils contained PCBs at 1.1 and 1.6 ppm, respectively. A river sediment sample collected from the same vicinity did not contain detectable levels of PCBs. The URS report did indicate that full one-gallon containers of dielectric fluid were found in the area. However, subsequent investigation and site reconnaissance by E&E did not document the presence of these containers, thus it is assumed the containers were removed from the area. A large-scale cleanup contract was awarded in the late 1980's but subsequently terminated since an acceptable right of entry agreement could not be reached between the Corps and landowners. Further investigation was not pursued until 1992 when Ecology and Environment (E&E) re-inventoried the site and prepared a workplan, which Montgomery Watson implemented in 1994. The Corps of Engineers did not implement the recommendations made by URS (1986) regarding extensive sampling of the Cargo Beach area, due to FUDS eligibility restrictions. It is obvious that local use of this area has been ongoing since the military abandoned the site. Beneficial use of the area precludes FUDS eligibility. A small area (approximately 9 square feet) containing petroleum-stained soil was noted by E&E (1993) around drums near the western edge of the Cargo

at this level (0.002 mg/L) in groundwater from well point 6-3 in 2001.

Regarding beryllium, previous investigation results (1994) show it was detected in one primary and two quality assurance soil samples from Site 6 (ranging from 0.99 to 1.3 mg/kg), but at levels below the ADEC Method 2 Table B1 cleanup level of 42 mg/kg. Beryllium (0.02 mg/L) was also detected (at the method detection limit) in one groundwater sample from MW 6-1. However, beryllium was detected in the total water sample, not the dissolved fraction, suggesting that the detection resulted from suspended soil particles in the water. The ADEC groundwater cleanup level for beryllium is 0.004 mg/L. Beryllium was detected in a sample collected from well point 6-3 during the 2001 investigation at a concentration equal to the ADEC cleanup level.

The most recent sampling results (2001) for Site 6 indicated elevated concentrations of several metals in shallow groundwater adjacent to the known area of petroleum contamination (the west edge of the gravel pad). The following metals were detected at levels equal to or exceeding the ADEC Table C groundwater cleanup levels at well point 6-3:

Metal	*Concentration*	*ADEC cleanup level*
Beryllium	0.004 mg/L	0.004 mg/l
Cadmium	0.006 mg/L	0.005 mg/L
Chromium	1.22 mg/L	0.1 mg/L
Lead	0.16 mg/L	0.015 mg/L
Nickel	1.68 mg/L	0.1 mg/L
Thallium	0.002 mg/L	0.002 mg/L
Zinc	17.7 mg/L	11.0 mg/L

The most likely source of several detected metals, beryllium, cadmium, and thallium, is natural background. Historic disposal of materials at the drum field may have also contributed to the recent detections of several metals in groundwater. The elevated metals in groundwater do not appear linked to upgradient contamination migrating from Site 7, since two upgradient monitoring wells (WP7-1 and WP7-2) did not contain elevated concentrations of metals in groundwater. Exposed and scattered drums, and other miscellaneous debris were removed from Site 6 by Nugget Construction during 2000 and 2001.

Shallow subsurface water and adjacent surface waters have been sampled at Site 6. No additional groundwater sampling is planned at this time.

	contained >10 mg/kg PCBs; elevated mercury, lead and arsenic in surficial soil samples. It is therefore possible the buried materials are also contaminated. Additional soil sampling is needed to effectively characterize the extent of contamination within the buried materials at this site. All of the samples collected to date have been from the periphery of the site. There is no information on the deeper portions of the landfill. The nature and extent of contamination in the subsurface has not been adequately characterized. The lateral and vertical limits of PCB and trace metal contamination have not been defined. What are the sources of dioxins/furans? Concerned that the landfill will be closed, not removed. Concerned that contaminated soil and buried material will be left behind after drums removed.		feasibility study, based on the results of the Phase I, II and III remedial investigations and final risk assessment. Additional sampling is not planned at this time, and we believe the most logical approach is to remove an estimated quantity of PCB or metal contaminated soils based on existing sample results, and conduct post-excavation confirmation sampling. Elevated levels of arsenic, chromium, and lead were identified during the 2001 investigation, but these hotspots will be evaluated in the risk assessment to determine applicable site cleanup levels. Mercury concentrations in the soil/sediment samples ranged from ND (0.1 mg/kg) to 0.56 mg/kg, and did not exceed the ADEC Table B cleanup level of 1.4 mg/kg. The PCBs in soil located east of Cargo Beach Road did not result from landfill leachate, but rather from debris pushed off the edge of the road. Therefore, the feasibility study can proceed based on the existing information. Regarding characterization of deeper portions of the landfill, the Corps feels the delineation of deeper materials within the landfill footprint is impractical. It is standard industry practice to conduct sampling on the fringe of a landfill to determine if contaminants are migrating away from the site. Drilling boreholes through unknown buried materials would be hazardous and potentially damaging to the sampling equipment. The source of dioxins is unknown. Dioxins are a typical byproduct from the burning of chlorinated, combustible landfill materials. Dioxins are also distributed via atmospheric transport and deposited in remote locations across the globe. Dioxin/furans were detected at low levels in surface soil during the 1994 remedial investigation. Twelve soil samples were collected at Site 7. Surface soil sample 94NE07SS122, located on the east side of Cargo Beach Road, had the highest dioxin concentrations. The results were evaluated using the total dioxin toxic equivalency approach (TEQ) published by USEPA in 1987, the acceptable guidelines at the time of the 1994 investigation. However, since the Phase I remedial investigation was completed, updated dioxin toxic equivalency factors have been published by the World Health Organization (WHO 1997). Using the USEPA 1987 approach, surface soil sample SS122 had a TEQ of 1.87 parts per trillion (ppt), versus 6.37 ppt using the more recent WHO 1997 methodology. Another surface soil sample 94NE07SS124 (analyzed in duplicate/triplicate) contained a TEQ of 0.00 ppt (0.0071/0.0026 ppt) per USEPA 1987, versus 0.00082 ppt (0.072/0.027 ppt) using the more recent WHO 1997 methodology. The USEPA Region 3 Risk-Based Concentration for 2,3,7,8 TCDD in residential soil is 4.3 ppt.

			In response to concerns raised in a public meeting, a subsequent inspection of Site 8 was performed on August 5, 1996 and September 14, 1998 by a field team from Montgomery Watson. Mr. Eugene Toolie, who worked at Northeast Cape at the time the spill occurred and was responsible for the pipeline repair and cleanup efforts, accompanied the team. According to Mr. Toolie, a spill of approximately 500 gallons of diesel fuel occurred in 1973. Cleanup efforts were initiated shortly after the spill, consisting of spreading absorbent pads over the area. Mr. Toolie indicated that the cleanup efforts were relatively successful. The team observed a wetlands area about 40 feet wide and 60 feet long immediately downslope of the fuel line break site (below the road embankment). The wetlands area drains to the south to the Suqi River, which crosses under the road approximately 400 feet to the south of the spill area. Within the wetlands area and parallel to the road embankment lies a 10 foot by 3 foot surface water area with a diesel sheen and odor. The wetlands vegetation appeared healthy and choked with cottonweed grass. The diesel-contaminated area appeared localized, and there was no evidence that it flowed to the Suqi River, which was consistent with Mr. Toolie's recollections. No sampling was performed because the presence of diesel was readily observed in a small, localized area. The pipeline was removed by Nugget Construction during 2000-2001. Based on Nugget's Final Project Plans for the removal action, if soil staining was observed during or after removal of the pipeline, surface soil samples were to be collected and field screened. If the field screening results indicated the presence of petroleum hydrocarbons, then off-site laboratory samples would be collected from an estimated 3 locations. Nugget's contract was terminated for convenience before a removal action report detailing actual field activities was produced. At this time, the Corps is assuming that no soil samples were collected during removal of the fuel pipeline at Site 8. Areas downgradient of Site 8 have been investigated, including sediment and surface waters of the Suqitughneq River. No further action is recommended based on the results of prior phases of investigation.

Site	Stakeholder Concerns	Actions Completed or Scheduled	Corps Response
10 – Buried Drum Field	Inadequate site characterization. No monitoring wells have been installed downgradient or circumferentially. Only one water sample has been taken. No testing has been done for arsenic. Concerns that drum field will not be completely removed. The recommendation appears to be that an area around one of the test pits (test pit #2, where a full drum was found) be dug up and clean fill placed on top, leaving the rest of the drum field as is. If buried, leaking drums remain, contents could flush into the Suqi drainage with heavy rains. PCB-impacted soils are located downgradient of Site 10, which could be the source area.	2 monitoring wells installed (1994).	The Phase I investigation (1994) included sampling of monitoring wells, boreholes, sediment, surface soils, and surface water. Samples were analyzed for VOCs (or BTEX), GRO, DRO, TRPH, PCBs, BNAs, and/or modified metals. A profile of the potential extent of fuel contamination was also generated using cross sections (see Figure 4-7-2, Phase I RI Report, 1995). During the 1994 investigation, two monitoring wells and two boreholes were installed downgradient of Site 10. Two monitoring wells were also installed at the adjacent Site 11. Numerous soil and sediment samples (25) were collected from the embankment at Site 10, Site 11, and the downgradient drainage basin area. Two surface water samples were collected immediately downgradient of the sites. In 1996, six additional surface soil samples were collected at Site 10 and analyzed for DRO and TRPH. The monitoring wells at Site 11 were re-sampled in 1998. According to the text of the Remedial Investigation Report (MW 1995), soil and water samples were analyzed for arsenic. However, the data presented in the Appendices only show one arsenic sample result, from MW 10-1 (0.039 mg/L As+). According to the Chemical Data Acquisition Plan (E&E 1993), modified priority pollutant metals were to be analyzed at Site 10, which excluded arsenic, mercury, and selenium. According to E&E (1992), only those metals associated with spent lubricating oils were recommended for sampling. Thus, arsenic, mercury, and selenium are excluded from the list of priority pollutant metals, since they were not expected to be present. In contrast, at Site 16 (Paint and Dope Storage Building), E&E (1992) recommended analyzing for all metals, including arsenic, mercury and selenium, based on the presence of various containers of potential contamination sources observed within the building. The downgradient PCB contamination observed in the Drainage Basin (Site 28) is most likely related to Site 11, which is also immediately upgradient of the sampling locations. The exact source of PCBs is unknown, but assumed to originate at the Main Complex. During the 1994 investigation, PCBs were not detected in surface soil samples collected from the embankment of Site 10. Note that Figure 5-8 of the Phase II RI Report (MW, 1999) shows elevated PCB detection limits for these surface soil samples (SS125-136). However, the data are erroneous because the method reporting limits (MRLs) for each

Site	Stakeholder Concerns	Actions Completed or Scheduled	Corps Response
11- Fuel Storage Tanks	Inadequate site characterization. Despite reports that oil was burned off, there has been no testing for dioxins. Water has not been tested for PCBs or metals. No attempt to determine vertical extent of contamination.	The three above ground storage tanks were removed by Nugget Construction during 2000-2001.	During the Phase I investigation (1994), three surface water samples were analyzed for fuels, PCBs, modified priority pollutant metals, and base/neutral/ acid extractable organic compounds at locations downgradient of Site 11 in the Drainage Basin. PCBs were not detected in surface water immediately downgradient of Site 11 (SW109 non-detect with MRL of 0.0005 mg/L). However, PCBs were detected in surface water sample SW110 (halfway between Site 27 culvert and Suqi River) at 0.0016 mg/L (QA and QC split samples results were 0.0014 mg/L and ND 0.001 mg/L). This result was attributed to suspended sediments in the water. PCBs were not detected (ND 0.0005 mg/L) in surface water collected just upgradient of the Suqi River in the Drainage Basin (SW117), or from the lagoon at Kitnagak Point (SW116). Furthermore, groundwater from two monitoring wells at the adjacent Site 10 (downgradient or cross gradient of Site 11) was analyzed for fuels, PCBs and metals. PCBs were not detected in MW 10-1 or MW 10-4 (MRL of 0.0005 mg/L). Arsenic, chromium, copper, lead, nickel, and zinc were detected in MW 10-1, while only lead was detected in MW 10-4. Groundwater samples from monitoring wells MW 11-2 and MW 11-3 were not analyzed for PCBs or metals, only VOCs and fuels, based on the Chemical Data Acquisition Plan (E&E 1993) for the remedial investigation. The vertical extent of contamination was investigated with borehole samples at Sites 10 and 11 during the Phase I investigation. Three boreholes were drilled at Site 11, and 4 boreholes at Site 10. MW 11-3 was sampled to 11.5 ft. Surface water sampling results from 2001 were also non-detect for PCBs (MRL of 0.001 mg/L) in areas immediately downgradient of Sites 10 and 11. E&E 1993 did not recommend testing for dioxins at Site 11, since the primary chemical of concern was leaking fuels from the storage tanks. The Corps believes that additional sampling for dioxin is not warranted. Dioxins are not an expected byproduct of the burning of fuel or oils. A source of chlorine is necessary to produce dioxins from combustion activities. All data results will be analyzed in the risk assessment, and the drainage basin is recommended for further evaluation of remedial alternatives in the feasibility study. No further sampling is necessary, and we believe the feasibility study can proceed.

	that contaminate the drainage downstream are not identified or delineated. The Phase III document does not provide justification for the analytes selected. Note the concentration of DRO in MW88-7 is up to 12,000 mg/kg with more than 9,000 mg/kg identified at about 11-13 feet. The data indicate the depth of contamination extends to greater than 25 feet below the ground surface at the Main Complex. Samples were not collected below this depth and the vertical extent of the impacted soils and/or groundwater is therefore not known. Additional sampling required.		Concentrations of PCBs ranged from 0.32 to 1.02 mg/kg. The excavations were graded with surrounding soils. The Phase I investigation targeted potential fuel contamination only at the two USTs and day tank at the Power Plant building, PCB contamination associated with stained soil within the southwest transformer room, and wipe sampling of concrete floor slabs in the generator and other transformer rooms. Metals were not identified as potential contaminants of concern. The soils surrounding the nearby Auto Storage and Maintenance Buildings were investigated for metals, based on observations of a grease pit, oil-stained floor slabs, smudge pots, and a suspected antifreeze AST. Four surface soil samples were collected and two monitoring wells installed. The maximum concentrations of chromium (59 mg/kg), copper (65 mg/kg), and zinc (282 mg/kg) were initially identified as exceeding benchmark concentrations. However, comparison with current ADEC Method 2 cleanup levels for copper (4,060 mg/kg) and zinc (9,100 mg/kg) indicate these metals are not of concern. Further investigation was completed during the 2002 field season. Activities at the Main Complex (Sites 13, 15, 19, 22 and 27) included drilling 10 soil borings and 10 monitoring wells. Soils were analyzed for DRO/RRO/GRO, PCBs, BTEX, PAHs, lead/zinc/chromium, and total organic carbon. Groundwater was analyzed for DRO/RRO/GRO and BTEX. PCBs were not detected in the soil samples, thus PCBs would not be expected in the groundwater. The monitoring wells and soil borings were installed to delineate contamination at and above the groundwater interface. Frozen soil and bedrock were encountered at depths ranging from 14 feet to 36 feet below ground surface at several borings within the main complex. For example, MW 88-10 was drilled to a total depth of 27.5 feet when the auger met refusal at bedrock. DRO was detected at 750 mg/kg between 24-26 feet at this location. MW 88-10 is upgradient of MW 88-7, and approximately 14 feet higher in surface elevation. At Site 22, also upgradient of the MW 88-7, two soil borings were drilled to refusal, a total depth of 32 and 36 feet, where bedrock was encountered. Site 22 is about 11 feet higher in surface elevation than MW 88-10, and 25 feet higher than MW 88-7. Petroleum products were not detected at these locations. Permafrost or bedrock were also encountered at a depth of 17 feet at MW 88-4, located on the north edge of the main complex between the drainage culvert and the large fuel tanks. Frozen soils were encountered at SB 88-11 and 88-13 at 14 and 16 feet below ground surface. Therefore, the depth of contamination

			Additional sampling is not planned at this time, and we believe the most logical approach is to remove an estimated quantity of PCB-contaminated soils, and conduct post-excavation confirmation sampling. The feasibility study can proceed based on the existing information. Remedial alternatives for Site 14 will be evaluated in the feasibility study. The flooded area noted at Site 14 was a subterranean corridor connecting Building 98 and Building 101 (Site 18). The standing water was sampled for BTEX, TRPH and PCBs during the 1996 field activities. All results were non-detect. Based on the test results, ADEC gave verbal authorization to remove the water and discharge it to the ground surface (see page 2-17, MW 1999). Therefore, this flooded area has not contributed contamination to the adjacent wetlands area at Site 21.
Site	**Stakeholder Concerns**	**Actions Completed or Scheduled**	**Corps Response**
16 – Paint and Dope Storage Building	Inadequate site characterization. The lateral and vertical extent of lead, PCBs and DDT have not been delineated and the extent of contamination remains unknown. A broader range of herbicide/pesticide analyses is required. Other metals including arsenic and mercury were also not included in the list of analytes for this site during the 2001 investigation. Site 16 contained less than 0.2 mg/kg concentrations of DDD/DDT and less than 0.1 mg/kg concentrations of PCBs (1260). These data indicate DDT was used at the NEC at the time the military occupied the site. Is it possible DDT and its degradation products exist at other Main Complex sites? What was the determinant for selecting Site 16 for sample analysis of DDT products relative to some of the other impacted sites?	The building, AST and miscellaneous containerized wastes were removed by Nugget Construction during 2000-2001. Stained soils (2.56 tons) were also excavated by Nugget and placed in supersacks for off-site disposal.	The 2001 pesticide sampling was the result of a modification to the ongoing field activities. While reviewing the PCB sampling data results, the laboratory chemist reported that peaks in the chromatograms may indicate pesticide contamination. MWH informed the Corps of Engineers that Site 16 and Site 28 (cross sections 7-11) may have hits of pesticides, but they were unable to confirm given the existing samples. Thus, the Corps of Engineers directed MWH to collect 12 additional samples from these combined locations to confirm or refute the presence of pesticides. The levels detected at Site 16 were significantly less than ADEC Method 2 cleanup levels. For example, the soil cleanup level for DDT is 24 mg/kg, and the 2001 results ranged from 0.011 to 0.12 mg/kg. Therefore, further sampling is not warranted. In addition, a broad range of compounds were analyzed during the initial remedial investigation (1994). Soils and subsurface water around the AST, abandoned containers and building were sampled and analyzed for SVOC, VOC, PCBs, pesticides, and priority pollutant metals (antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc). Pesticides were <u>not</u> identified as compounds of concern after the Phase I investigation. No pesticides were detected in the soil or groundwater samples. It is unknown exactly what type of pesticides were potentially stored or used at Northeast Cape. The most likely products used would be insecticides for the control of mosquitoes. For example, during remedial activities conducted by

Site	Stakeholder Concerns	Actions Completed or Scheduled	Corps Response
17 – General Supply Warehouse and Mess Hall Warehouse	Inadequate site characterization.	Miscellaneous debris, containerized hazardous waste, and building structure were removed by Nugget Construction during the 2000-2001 field seasons. Bristol Environmental completed the building demolition during the 2003 field season.	During the Phase I investigation (1994), one surface soil sample was collected at Site 17, and analyzed for VOCs and base/neutral/acid extractable organic compounds (includes pesticides, PAHs). This sample was located adjacent to a leaking drum on the north end of Building 107 Mess Hall Warehouse. No chemicals were detected. A wipe sample of the concrete floor of Building 107 Mess Hall Warehouse was also collected and the results were ND for PCBs and base/neutral/acid compounds. Therefore, there was no reason to conduct further sampling to determine the horizontal and vertical extent of contamination at Site 17. It is unlikely this site would be contributing to PCB contamination of the surrounding tundra. There are no water sources on the gravel pad that could be sampled. More recent soil and groundwater sampling results (2001) at the Main Complex indicate that elevated concentrations of GRO and DRO are present to the north of Building 107 Mess Hall Warehouse. This sampling location (MW88-7) was intended to delineate the edge of the plume of contamination associated with the Power Plant Building, Diesel Fuel Pump Island, and other buildings to the east of Site 17. The unexpected sampling results indicate that fuel contamination associated with the Main Complex is more extensive than previously thought. (Note: During the 1994 investigation, a wipe sample of the concrete floor in Building 111 Supply Warehouse was also collected and contained 21 ug/100 cm^2 of PCB-1260 and 61,000 ug/100 cm^2 of bis (2-ethylhexyl) phthalate (a common plasticizer and laboratory contaminant). Building 111 has since been demolished and only the concrete floor slab remains. It is unknown if the wipe sample corresponded to a stained area of the floor. Thus, it is possible that PCBs in concrete may exceed the current standard of 1 ppm at this location.)
Site	**Stakeholder Concerns**	**Actions Completed or Scheduled**	**Corps Response**
18 – Housing facilities and Squad Headquarters	Inadequate site characterization. This is a huge area with nine buildings and associated utilidors, but no sampling has been done. The utilidors could be a contaminant migration pathway.	Some buildings were removed by Nugget Construction during 2000 and 2001, the remaining buildings and utilidors were demolished by Bristol Environmental during 2003.	No further action from an HTRW perspective is recommended based on the results of prior phases of investigation. The remaining buildings and utilidors were demolished during the 2003 field season. The 9 original buildings were wood-frame construction on concrete or wood pillars. During the site inventory (1992), E&E suspected lead paint and asbestos-containing materials, such as insulation, tiles, and transite siding, which should be tested to determine proper disposal requirements. However, since no leaking containers,

Site	Stakeholder Concerns	Actions Completed or Scheduled	Corps Response
19 – Auto Maintenance Building	Inadequate site characterization. Although it is very likely that an auto mechanics shop would have PCBs (from hydraulic, brake, and lube oils), no testing has been done for PCB contamination. Observation of mechanics work pit by independent observers noted that water levels in the pit tend to fluctuate; if water levels are high in metals and benzene, need to know where this pit drains to. Also need to know where floor drains drain to; 1993 reports note six drains, but later reports only note two drains?	The mechanics work pit was cleaned out by Nugget Construction during the 2000-2001 field seasons. Bristol Environmental demolished the buildings during 2003.	The original Site Inventory conducted by E&E (1992) did not recommend sampling for PCBs at Site 19. During the Phase I investigation (1994) groundwater, surface and subsurface soil samples were collected and analyzed for BTEX, DRO, GRO, TRPH, and metals. During the 2001 investigation, soil samples from boreholes surrounding Site 19 were collected and analyzed for PCBs. PCBs were not detected in any of the samples. The site inventory identified a grease pit in the northern section of Building 109 and notes that these types of pits commonly drain to an open drain field. This former grease pit was cleaned out by Nugget Construction as part of their work during the 2000/2001 field seasons. Based on site knowledge, building layouts, and construction of the gravel pad, the most likely area for discharge from this grease pit is the 24" culvert which is located immediately downgradient of the diesel fuel pump stand (Site 27) on the northern edge of the gravel pad and above the drainage basin (Site 28). A smaller drainpipe located just west of the culvert also discharges to the drainage basin and may have been connected to Building 109. Alternatively, the grease pit may connect to the utilidor system. Either way, discharge from the grease pit has been investigated such that numerous samples have been collected and analyzed for PCBs from the Drainage Basin (Site 28), as well as additional samples from the outlet of the Wastewater Treatment Tank (Site 21). PCB concentrations in sediment samples collected from the Drainage Basin have ranged from ND to 5.4 mg/kg. A sludge sample collected from within the wastewater tank contained total PCBs at 122 mg/kg. Sediment samples collected from the outfall of the wastewater treatment tank had ND levels of PCBs, and one surface soil sample contained 0.32 mg/kg of PCBs. Two surface soil samples collected near the tank itself contained PCBs at 1.92 mg/kg (4.2 m/kg duplicate) and 0.29 mg/kg. The gravel pad is constructed such that the high point is the southeast corner of the pad, and based on site topographic drawings, water flows in a northerly direction from the pad. The 1992 Site Inventory report by E&E does mention 6 floor drains in each Building (108 and 109), plus the grease pit in Building 109. The Phase I investigation (1994) does not contradict this observation, only states that two wipe samples were to be collected from each center floor drain.

	and should have included sampling and analysis for DDT compounds. Inadequate characterization of PCB distribution; what are sources of metals, toluene, xylene? Groundwater sampling should be conducted here and downgradient from the site.		limit for lead in tundra soils is 106 mg/kg. The soil/sediment samples collected in 1994 contained lead ranging from 6.1 to 96 mg/kg. The concentrations of lead in soil/sediment samples collected in 2001 ranged from ND (10) to 67 mg/kg. Therefore, the lead concentrations at Site 21 are not significant. Mercury was also detected in one surface soil sample (SS168) during the Phase I investigation (1994). This sample was analyzed in triplicate and the results were 5.6, 4.0 and 3.1 mg/kg, which exceeds the ADEC Table B cleanup level of 1.4 mg/kg. The other seven soil/sediment sampling results were all non-detect (at 0.1 mg/kg). Additional sampling was conducted in 2001, and mercury was detected in 4 out of 11 samples, at concentrations ranging from 0.07 to 0.25 mg/kg, which are below the ADEC Table B criteria. The 1994 detection of mercury appears to be localized. Concentrations of DRO, arsenic and chromium have been adequately delineated at Site 21. The detected levels of these compounds may also be partially attributed to natural background concentrations of organics and inorganics. Based on a recent statistical analysis, the ambient levels of metals in tundra soil at Northeast Cape were 7.8 mg/kg for arsenic and 48 mg/kg for chromium. Chromium has been detected above background levels at only two historical sampling locations – immediately under the outfall (93 mg/kg in 1994), and downgradient of the outfall (50 mg/kg in 2001). Arsenic has been detected at several locations above background levels, primarily around the outfall (21, 39, and 170 mg/kg in 1994) and downgradient of the outfall (11.5, 12.1, and 14.7 mg/kg in 2001). The only potentially elevated levels of arsenic near the wastewater tank were detected in 1994 (9.6 mg/kg). However, subsequent testing in 2001 indicated levels ranging from 4.3 to 5.9 mg/kg in this vicinity. DRO has been detected at consistent levels across Site 21, with the exception of one sample location (SS168) adjacent to the wastewater tank which contained 1,160 mg/kg (3,800 mg/kg in duplicate) in 1994. Additional sampling downgradient of this location in 2001 indicated DRO at 270 mg/kg in a surface sample (0-0.5 ft) and 640 mg/kg in a subsurface (1.5-2.0 ft) soil sample. Otherwise, DRO concentrations in the remaining samples ranged from 46 to 620 mg/kg in 1994 and from 94 to 380 mg/kg in 2001. The higher DRO concentrations are primarily associated with surface samples. For example, MW 21-2, located between the wastewater tank and the downgradient outfall, was sampled in 1994 to a depth of 4-6 feet and concentrations of DRO and TRPH were an order of magnitude lower (46 and 85 mg/kg, respectively) than

Site	Stakeholder Concerns	Actions Completed or Scheduled	Corps Response
22 – Water Storage Building	Nature and extent of contamination are not characterized. The potable wells should have been analyzed for trace metal contaminants found at the NEC including arsenic, lead, mercury and others to ensure this potential water supply is free of both organic and inorganic contaminants. It also would have been advisable to analyze the well water for pesticides since these contaminants are also known to be present at the Main Complex. What are sources of antimony, lead, DRO, RRO? Groundwater here is NOT potable in present state and should not be characterized as such.	The potable water wells were decommissioned in 2001 by Nugget Construction. The water storage tanks were also removed, and the building partially demolished (only three concrete stem walls remain). The UST 22-1 at the pumphouse for Well #2 was removed by Nugget Construction in July 2001. Soils associated with excavation of the UST, as well as a small area (0.25 tons) of stained soils inside the water storage tank building by the north wall were removed by Nugget during 2001. Bristol Environmental completed demolition of the concrete stem walls during the 2003 field season.	The wells were decommissioned in 2001 as part of an existing demolition contract and are no longer available for sampling. The main constituent found in the shallow groundwater is diesel fuel contamination, hence the deeper water supply wells were analyzed for fuel compounds only, to determine if any connection between the two aquifers existed. Arsenic, lead, mercury, and pesticides were not identified as potential chemicals of concern in groundwater. Possible sources of contamination for the detected DRO/RRO at former potable well #2 (PW-2) include a diesel-powered engine in the pumphouse, and a 500-gallon diesel underground storage tank adjacent to the pumphouse. The groundwater contamination identified in PW-2 may be due to leakage from the adjacent UST, leaks in the diesel pump system, or migration of contamination along the well casing. Since former potable wells #3 and 4 did not contain detectable contamination, it is possible the diesel and residual range organics in the deeper groundwater at Site 22 are localized due to the former UST. The UST was decommissioned by Nugget Construction in July 2001. Approximately 18 cubic yards (27 tons) of soil were removed during the tank excavation. Confirmation samples indicate elevated levels of DRO remain in the underlying soils, approximately 6 feet below grade. In 1994, a surface soil sample collected within the water storage tank building contained elevated levels of antimony (34 mg/kg), lead (497 mg/kg), DRO (2,640 mg/kg), and TRPH (5,920 mg/kg). This sample was located below a set of dilapidated stairs on the north side of the structure, downslope from a pile of debris. Possible sources of the detected compounds include asbestos retort cement, paint cans/debris, fuel spillage, or the building's utilidor connection. This small area of stained soil (0.25 tons) was excavated by Nugget during 2001. One confirmation sample (and QC duplicate) was collected from the bottom of the excavation and analyzed for GRO/DRO/RRO, BTEX, and lead. DRO was detected at 2,090 (1,730) mg/kg. RRO was detected at 3,660 (3,970) mg/kg. GRO was detected at 2.69 (2.59) mg/kg. Lead was detected at 4.93 (5.79) mg/kg. BTEX compounds were not detected. Migration of contamination from this particular location was further investigated in 2002 by the placement of two downgradient boreholes (drilled to refusal at 32 and 36 feet below ground surface) near the former utilidor corridor north of the building. Four soil samples were collected; two at the

			gravel pad, contained 280 mg/kg of lead. The downgradient sediment sample (SD113) only had 18 mg/kg of lead. Thus, lead contamination has been adequately delineated and appears localized. Chromium was detected in soils during the 1994 investigation at levels ranging from 4.7 to 58 mg/kg. Only 1 location exceeded the site-specific background level of 50 mg/kg for gravel soils. During the 2001 investigation, chromium was detected in the two sediment samples at 12.3 and 13 mg/kg, which do not exceed the background level for chromium of 34 mg/kg in sediment. Possible sources of contamination include scattered drums, misc. debris, and former equipment associated with the building. Ambient levels of inorganics in the environment may also be contributing to perceived contamination. Groundwater sampling was conducted during the Phase I remedial investigation (1994). Three monitoring wells were installed and water samples were collected and analyzed for TRPH, DRO, GRO, VOC, SVOC, PCB, pesticides, and metals. The ADEC Table C groundwater cleanup standard was only exceeded for total lead. However, the dissolved concentrations of lead were below the groundwater cleanup level. Thus, the source of the lead is likely soils entrained in the water column, and metals were excluded as contaminants of concern.
Site	**Stakeholder Concerns**	**Actions Completed or Scheduled**	**Corps Response**
26 – Potable Water Well	The sampling did not include trace metals such as mercury, lead, or arsenic that may affect using the water as a potable source. Natural attenuation geochemical data should be included in a follow up report. These data will be important in determining remedial alternatives for the impacted groundwater and soils.	The potable wells were decommissioned in 2001 by Nugget Construction.	The wells were decommissioned in 2001 and are no longer available for sampling. Metals were not identified as a contaminant of concern in the shallow groundwater at the site, thus they were not included in the deep groundwater analyses. The primary contaminant of concern in groundwater at the Main Complex is diesel fuel. The groundwater samples were analyzed for DRO/RRO/GRO, BTEX, and parameters used to evaluate the potential for natural attenuation (i.e. alkalinity, chloride, sulfate, nitrogen, sulfide, chemical oxygen demand, manganese and iron). No further sampling is planned.
Site	**Stakeholder Concerns**	**Actions Completed or Scheduled**	**Corps Response**
28 – Drainage Basin	In adequate site characterization. The list of analytes for surface water and sediment sampling should have included all	Remedial investigations – including sampling of soil, sediment, surface water, groundwater, plants, and	Sediment and surface water in the drainage basin were previously sampled during the Phase I investigation (1994). Samples were analyzed for BTEX, DRO, GRO, TRPH, BNAs, PCBs, and metals (antimony, beryllium, cadmium, chromium, copper, lead, nickel, silver, thallium, zinc). Pesticides (including

	What is the source of the dibenzofurans? Since this contaminant is found in the Drainage Basin, there must be an upgradient source(s). The depth of contamination determined by the 2001 field season results also indicates there is little understanding of the lateral and vertical extent of contamination within the Suqi drainage. For example, samples collected 18-24 inches below the land surface contained about 150,000 mg/kg DRO, more than 110 mg/kg lead, greater than 0.5 mg/kg PCBs and a range of organic and inorganic contaminants to a depth of 24 inches. This indicates there is little understanding of the vertical extent of contamination within the drainage basin. The extent of contamination in the subsurface is unknown. The extent of contamination is defined by the sampling protocols used to sample the soils and sediments within the Drainage Basin. For example, it is not known whether the soils and sediments found beyond the approximate bank-full channel are also contaminated since no samples were collected from areas that extend beyond the channel width. Sediments, and likely contaminants, are transported and deposited in the overbank area of the drainage during flooding and it is therefore likely contaminated sediments can also be found within the floodplain of the Drainage. In future characterization of the NEC, the lateral and vertical extent of contamination of the soils and sediments and associated waters should be determined to assess		[a] levels shown are the lowest of the inhalation/ingestion/migration to groundwater pathways [b] ingestion pathway [c] migration to groundwater pathway [d] inhalation pathway [e] cleanup level for endosulfan used as surrogate, since endosulfan sulfate is a metabolite and closely related compound The only pesticides detected above a default cleanup level were beta-BHC and gamma-BHC. These compounds will be evaluated in the human health risk assessment. The pesticides may be present due to several factors: low level residues from historical military use of pesticides, or atmospheric deposition. Furthermore, during the Phase I investigation (1994), samples from various sites including the Drainage Basin area (not yet identified as Site 28) were analyzed for BNAs (base/neutral/acid extractable organic compounds). This suite of compounds includes the pesticides DDD, DDE, DDT, aldrin, dieldrin, endrin aldehyde, heptachlor, delta-BHC, and gamma-BHC. BNAs were also analyzed for at Sites 0 (background), 6, 7, 9, 10, 11, 16, 17, 22, 23, 24, and 25. Pesticides were not identified as chemicals of concern at any site. It is very unlikely that the Agent Orange or 2- 4D were utilized at Northeast Cape. Agent Orange is a herbicide that was used heavily in Vietnam by the military, because it was principally effective against broad-left foliage, and caused defoliation of trees and shrubs. Agent Orange was primarily used in tropical climates. Given the arctic conditions on St. Lawrence Island, the lack of trees or shrub vegetation, it is highly unlikely that this herbicide would have been utilized at Northeast Cape. The most likely pesticides used at Northeast Cape would have been insecticides for the control of mosquitoes. For example, a 1-gallon container of diazinon was removed from the Main Electronics Bldg 1001 at the White Alice Site by contractors working for the U.S. Navy in 1992. However, recent sampling (2001) at both Site 31 and Site 32 did not detect any pesticide compounds in surface soil. Dibenzofuran is part of the suite of BNAs (SW8270) analyzed for at various sites across the Northeast Cape site during the 1994 investigation. It was <u>not</u> detected in any samples collected at Site 28. Dioxin/furans were not analyzed for at Site 28. Dioxin and furans are typically the result of incineration or combustion activities. They are also widespread in the environment due to global deposition. Low levels of dioxins/furans were detected at the landfills,

	sites also contained elevated arsenic in the surface sediments The presence of toluene also indicates the eastern tributary of the Suqi has been impacted by contaminant discharges to this section of the drainage basin. The nearest downstream sampling location in the Suqi River (2001) from the confluence of the Drainage Basin is located approximately 1500 feet downstream. These sampling location sediments (114, 115 and 116) contained relatively elevated PAHs, lead and DRO concentrations. The sediments from this site were not, however, analyzed for mercury, copper and other select trace metals.		Arsenic was also detected at 3.3 and 5.7 mg/kg in SD 126 and 127. A recent statistical analysis of ambient concentrations of inorganics at the Northeast Cape site indicates that the background upper tolerance limit for arsenic in tundra soils is 7.8 mg/kg. Thus, arsenic should not be considered elevated at these locations. Toluene was detected at 0.0074 and 0.0097 mg/kg in SD 126 and 127, and the results were qualified VB (analyte present in blank and sample). The ADEC Table B soil cleanup level for toluene is 5.4 mg/kg. The detected concentrations, if present, are orders of magnitude less than regulatory levels. The trace amounts of toluene in the easternmost sediment samples of Site 29 do not indicate an upgradient source of fuels, these levels may be due to aerial deposition of contaminants from a variety of sources. Prior phases of the remedial investigation included more extensive sampling of the drainage basin and Suqitughneq River. Sediment/surface water samples were previously collected in the vicinity of the Drainage Basin and Suqi River confluence. For example, in 1996, SW/SD 108 was collected just downgradient of the confluence (DRO 190 mg/kg), and SW/SD 107 (DRO 130 mg/kg) was collected immediately upgradient of the confluence. In 1998, samples SW/SD 803 and SW/SD 804 were collected immediately downgradient of the confluence and DRO was detected at 310 and 2,200 mg/kg, respectively. The Phase III remedial investigation was meant to build on those results and fill in perceived data gaps. Thus, the referenced samples (SD114, 115 and 116) were collected from a sediment cross-section (CS1) which was planned for the vicinity of previous sampling location SW/SD 111. This location was specifically targeted to verify the prior sampling results (25,000 mg/kg DRO in 1996) and determine the downgradient extent of contamination. The detected concentrations of DRO and RRO at cross section 1 should not be considered elevated. DRO ranged from 13 to 410 mg/kg, whereas RRO ranged from 26 to 770 mg/kg. Only one sediment sample exceeded the ADEC Table B soil cleanup level of 250 mg/kg DRO. The lead concentrations at SD114/115/116 ranged from 8 to 15 mg/kg, which should not be considered elevated. The sediment samples collected from each cross section in 2001 were only analyzed for the metals chromium/lead/zinc, based on previous investigation results which identified these compounds as chemicals of concern in the

	The lateral and vertical extent of the organic contaminants identified in the soils at Site 31 is undefined. Additional sampling and analyses are required to effectively characterize the contaminant distributions.		Additional sampling is not planned at this time, and we believe the most logical approach is to remove an estimated quantity of DRO or PCB contaminated soils based on existing sample results, and conduct post-excavation confirmation sampling. Therefore, the feasibility study can proceed based on the existing information, using basic assumptions regarding the lateral and vertical extent of contamination surrounding known point sources such as tank valves, piping, impoundments, and former transformer pads. The Corps agrees that further sampling may be necessary to accurately design future remedial actions. The additional information can then be evaluated in the proposed plans to determine if the FS recommendations should be changed.
Site	**Stakeholder Concerns**	**Actions Completed or Scheduled**	**Corps Response**
32 and 33 – Lower and Upper Tram Terminals	Inadequate site characterization. The limited number of samples collected at the sites is insufficient to determine the lateral and vertical extent of contamination and the sites remain poorly characterized. The contaminants identified at this site need to be better characterized to ensure against continuing downgradient contamination. Site samples were not analyzed for trace metals.	Bristol Environmental completed demolition of the buildings during the 2003 field season.	We do not believe testing for metals is warranted at Site 32. Trace metals were not identified as a chemical of potential concern in the approved workplan. The most reasonably expected contaminants of concern were selected for analysis, based on former site activities and potential sources of contamination. Sample locations were chosen based on proximity to potential sources (oiling of tram lines, anchor pit, AST), and field observations of suspected contaminated areas. Pesticides were also added to the analytical suite (at Site 32), based on input from stakeholders during the workplan review conference. No pesticides were detected in the samples. The Corps believes the data collected is sufficient to proceed with the feasibility study. Stained soils are obvious by the lower tram terminal building and in the anchor pit, therefore assumptions can be made regarding the full lateral and vertical extent of fuel contamination at this location. We believe the most logical approach is to remove an estimated quantity of DRO contaminated soils based on existing sample results, and conduct post-excavation confirmation sampling. If further sampling is conducted in the future, those results will be evaluated in the proposed plans, to determine if the recommendations of the feasibility study should be revised.
Site	**Stakeholder Concerns**	**Actions Completed or Scheduled**	**Corps Response**
34 – Upper Camp, White Alice	Inadequate site characterization. Analysis of the soil samples was restricted to PCBs, DRO and RRO. Other analytes	Bristol Environmental completed demolition of the buildings during the 2003 field season.	We do not believe testing for other contaminants is warranted at Site 34. According to the approved workplan, the most reasonably expected contaminants of concern were selected for analysis, based on site conditions and potential sources of contamination (e.g. above ground storage tanks,

	does this indicate past uses of arsenate-based pesticides? A full investigation of the possibility of storage and/or use of arsenic-based chemical warfare agents has not been completed.		with natural levels of this metal in the substrate (igneous rock). In those locations where arsenic was detected at abnormally high levels, additional actions may be taken based on a site-specific risk assessment and feasibility study. The elevated levels may be the result of dumping boiler contents or other wastes. We have no indication that arsenate pesticides were utilized at Northeast Cape. Furthermore, a statistical analysis of ambient concentrations of inorganics at Northeast Cape, indicates that the background upper tolerance limit for arsenic is 7.8 mg/kg (tundra soils) and 11 mg/kg (gravel soils). We have researched the possible use of chemical warfare agents, and there is no evidence that such materials were ever stored or utilized at Northeast Cape (personal communication with John Wilder, Topographic Engineering Center, who conducted the Historical Aerial Photograph Time Sequence Analysis, including an extensive records review).
Site	**Stakeholder Concerns**	**Actions Completed or Scheduled**	**Corps Response**
General	An ecological/human health risk assessment cannot be done without extensive testing of plants, fish, and wildlife that people rely on for traditional foods. This would include voles, fox, reindeer, fish (freshwater, anadromous, and marine), freshwater and marine invertebrates, more extensive testing of plants (including marine species of nearshore algae), and seals.		The objective of the remedial investigation is to delineate the nature and extent of military sources of contamination at the site, to determine cleanup requirements. Testing of organisms such as fish and plants was conducted to better evaluate uptake of contaminants from known areas of contamination and assess the potential impacts to human health. A clear connection between site contamination and uptake by ecological receptors must be established before considering more extensive testing. The Corps believes extensive testing of plants, fish and wildlife is not warranted at this time.
General	The extent of contaminant migration into the Bering Sea must be comprehensively assessed before the ecological/human health risk assessment can even be contemplated. The Corps must assess the volume of contamination migrating through groundwater, the Suqi River and into the Bering Sea.		In the project area, the Suqi River is the primary drainage to the Bering Sea, however water and sediments from the mouth of the Suqi River have been tested and are well below cleanup levels. Sampling of marine sediment and ecological receptors is not warranted. The objective of site cleanup actions are to reduce future impacts. The cleanup levels for a site are determined to take the long-term effects into consideration. Therefore, cleanup levels are a much more straightforward approach than calculating mass or volume of contamination over a given period of time.
General	Passive samplers such as the semi-permeable membrane devices should be deployed to assess migration of PAHs and		Further sampling is not planned. However, future monitoring techniques could be investigated during the feasibility study or remedial design phases of the project.

	the remainder of the river system. These potential impacts need to be integrated into any complete assessment and evaluation of risk of the military sites located near NEC.		

SUMMARY REPORT
Phase III Remedial Investigation
Northeast Cape, St. Lawrence Island, Alaska

VOLUME I: APPENDICES A THROUGH D

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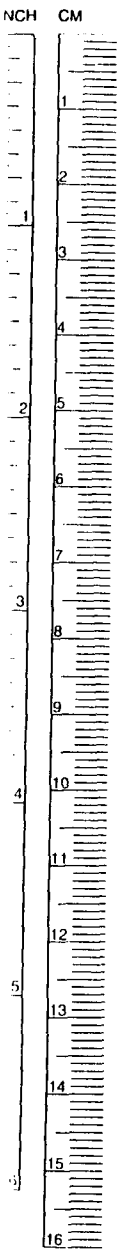
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APPENDIX A

Field Notes and Field Note Forms



MEASUREMENT CONVERSIONS

IF YOU KNOW	MULTIPLY BY	TO FIND
LENGTH		
inches	2.540	centimeters
feet	30.480	centimeters
yards	0.914	meters
miles	1.609	kilometers
millimeters	0.039	inches
centimeters	0.393	inches
meters	3.280	feet
meters	1.093	yards
kilometers	0.621	miles
WEIGHT		
ounces	28.350	grams
pounds	0.453	kilograms
grams	0.035	ounces
kilograms	2.204	pounds
VOLUME		
fluid ounces	29.573	milliliters
pints	0.473	liters
quarts	0.946	liters
gallons (U.S.)	3.785	liters
milliliters	0.033	fluid ounces
liters	1.056	quarts
liters	0.264	gallons (U.S.)
TEMPERATURE		

°C = (°F - 32) x .555
°F = (°C x 1.8) + 32

Inches	Decimals of foot	Milli-meters
1/16	.0052	1.5875
1/8	.0104	3.1750
3/16	.0156	4.7625
1/4	.0208	6.3500
5/16	.0260	7.9350
3/8	.0313	9.5250
1/2	.0417	12.700
5/8	.0521	15.875
3/4	.0625	19.050
7/8	.0729	22.225
1"	.0833	25.400
2"	.1667	50.800
3"	.2500	76.20
4"	.3333	101.60
5"	.4167	127.00
6"	.5000	152.40
7"	.5833	177.80
8"	.6667	203.20
9"	.7500	228.60
10"	.8333	254.00
11"	.9167	279.40
1 foot	1.0000	304.80

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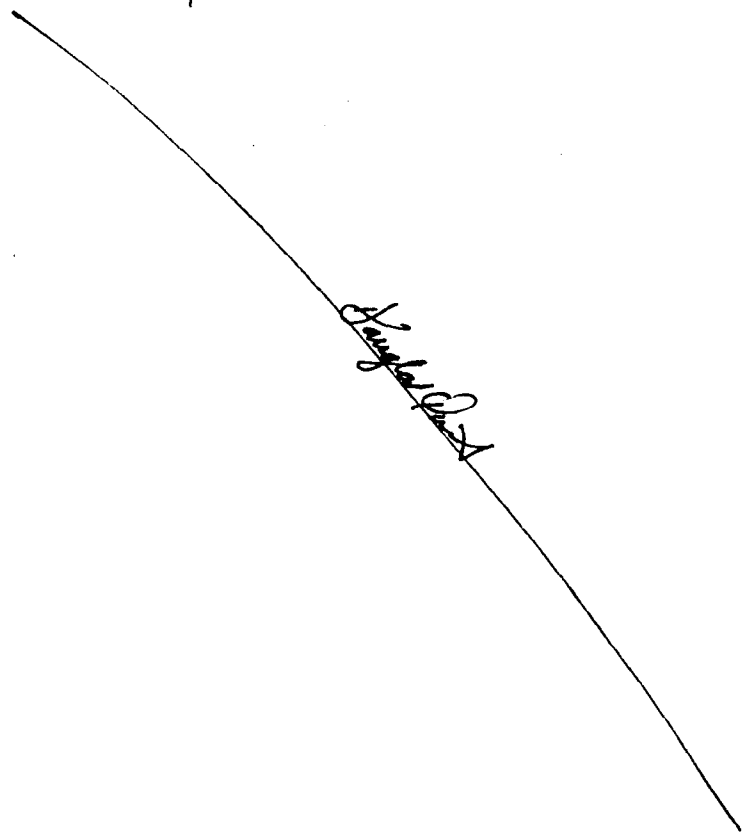
Northeast Cape 1850574.260120 8-17-01

0800 - Arrive Ted Stevens Int'l Airport

1200 - Arrive Nome
Go into Nome for Supplies

1400 - Arrive NEC
Offload Gear

2000 - End Day



Douglas Quist 8-17-01

Northeast Cape 1850574.260120 8-18-01

0700- Health and Safety Meeting

Prepare instruments

DO- Replaced Membrane (YSI only)

pH- Recalibrated

EC, T - Factory Calibrated

Prepare for Cross Sections in Drainage Basin

Refer to M. MarKell Field Notes-

2000 End Day

Douglas Quist 8-18-01

Northeast Cape 1850574.260120 8-19-01

0730- Health and Safety Meeting

Continue w/ Cross Sections

Refer to M. MarKell Field Notes

2130- End Day

Douglas Quist 8-19-01

Northeast Cape 1850574.2601.20 8-20-01

0700 Health and Safety Meeting
Stage Coolers for Shipment to Lab.

1915 - Depart for Continued Cross Sections of Drainage Basin.

Refer to M. Markell field notes

2100 End Day

Douglas Quist 8-20-01

Northeast Cape 1850574.2601.20 8-21-01

0700 Health and Safety Meeting
Johanna Dreher and D. Quist to Do Cross Section @ Sugi River and SW/SD Samples
See M. Markell Field Notes

Continue SW/SD Sampling Moving upstream w/ M. Markell/ Refer to M. Markell field notes

2000 End

Douglas Quist 8-21-01

Northeast Cape 1850574.260120 8-22-01

0700- Extremely High Winds - Weather Day
Gusts to 60+ mph, sustained 40+

Douglas Quist

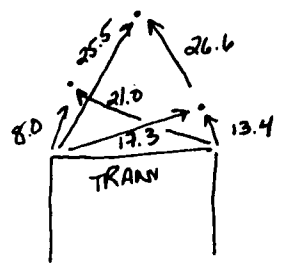
8-22-01

Northeast Cape 1850574.260120 8-23-01

0700 Health + Safety Meeting
Prepare to Sample top Camp Sites 33 + 34
Bill O'connel, Doug Quist, Floyd Kingeekuk

0830- 01NE33SS101 DRO/RRO PCB
0835- 01NE33SS102 DRO/RRO PCB
0840- 01NE33SS103 DRO/RRO PCB

Conditions foggy and ground wet. No obvious Staining. Samples placed in relative proximity to those shown on figure 2-17 of the Work Plan.



Establish Old Grid A-M and 1-10
Assumed 20' DP 25' DP intervals from MS-MC to last pin near road Approximately ~~200'~~ thus roughly 15' squares.

1030 01NE34SS101 DP ~~DP West 20'~~ FROM N/S Road. ±
1035 01NE34SS102 ~~DP South 30'~~ FROM 101 South ±60
1040 01NE34SS103 ON Berm South Side of Road.

Map Shows Grid N of Road However pins run along South edge of Road in 20' intervals

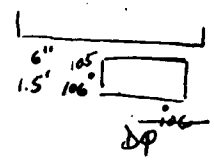
Douglas Quist 8-23-01

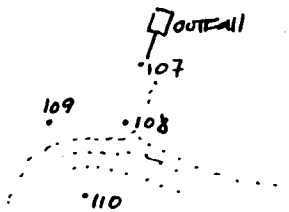
Northeast Cape 1850574. 2760120 8-23-01

1043 - 01NE34SS104 PCB - GRID B

1045 - 01NE34SS105 under W end of tankL

1050 - 01NE34SS106 under ~~fill for overflow @ E. End~~ DP





Four Discretionary Samples collected from Downgradient End of Outfall

100 - 01NE34SS107 DRO, RRO

105 - 01NE34SS108 DRO, RRO

110 - 01NE34SS109 DRO, RRO

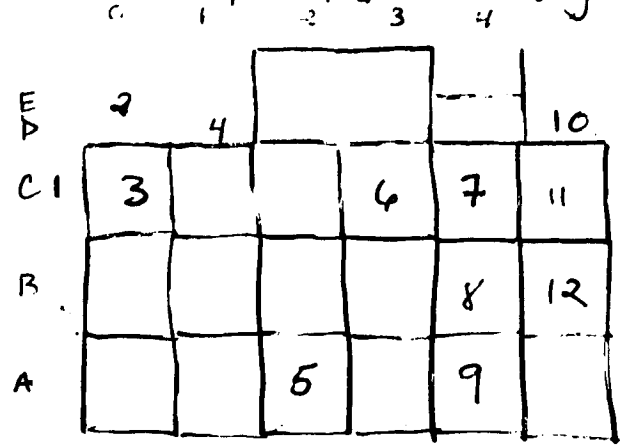
115 - 01NE34SS~~104~~ DP 110 DRO, RRO

30 - 01NE34SS111 Background

Douglas Quist 8-23-01

Northeast Cape 1850574. 2760120 8-23-01

Site 31 - Prepare Grid For Screening



Note - all former samples appear to be Composites based on uniform depression near each corner of each grid

Sample under tank valves @ each WACS Antenna

1500 01NE31SS105, 205, DA" (1503), (1504)

1505 01NE31SS106 DRO, RRO

1510 01NE31SS107 DRO, RRO

1515 01NE31SS108 DRO, RRO

Douglas Quist 8-23-01

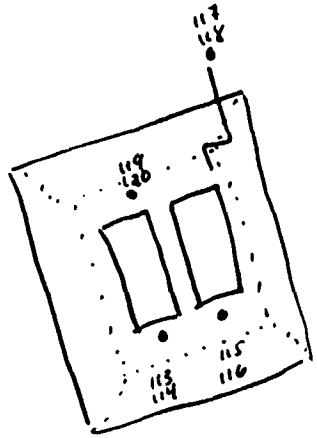
Northeast Cape 1850574. 260120 8-23-01

1520 01NE31SS109 DRO, RRO
1525 01NE31SS110 DRO, RRO

1530 01NE31SS111 DRO, RRO
1535 01NE31SS112 DRO, RRO

1540 01NE31SS113 DRO, RRO
1545 01NE31SS114 DRO, RRO
~~01NE~~

1550 01NE31SS115 DRO, RRO
1555 01NE31SS116 DRO, RRO



2000 01NE31SS117 DRO, RRO
2005 01NE31SS118 DRO, RRO

2010 01NE31SS119 DRO, RRO
2015 01NE31SS120, 220 (1620) ~~QA (1625) NO QA DO FOR 171~~ stet
QA 1625 (YES)

2020 01NE31SS125 (Background) DRO, RRO

Return to top Camp w/ Bruce Narloch & Floyd Kingeekuk.
Evening Paperwork and Photo download.

Douglas Quist 8-23-01 13 HRS

Northeast Cape 1850574. 260120 8-24-01

0700 Health & Safety Meeting
Prepare for Sites 24, 14, 31, 32 and portions of 30.

0830 - 01NE24SW114
0835 - 01NE24SW214
0840 - 01NE24SW314

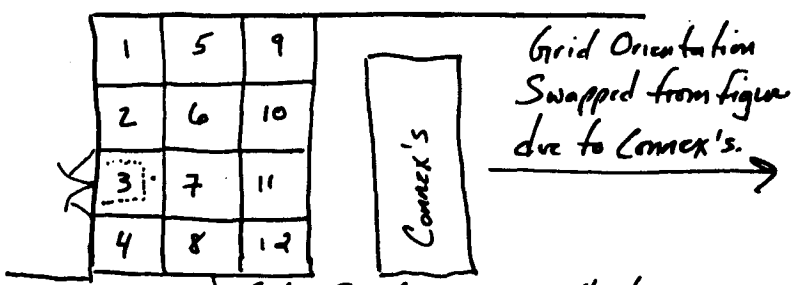
DO 8.5mg/L, TEMP 10.2°C, EC 124.2 NS, pH 6.46, Turb. 5.67 n+u

0900 - 01NE24SD114 Colocated w/ SW 114

0930 - 01NE24SD115

1000 01NE30SS103 Approximately 200 Ft. S. of Road to 24
1020 01NE30SS102 Up Mountain from 99 Background
01NE30SD101 on drainage stream from Site 21

Collect Field Screens @ 14 10' grid intervals



Douglas Quist 8-24-01

Northeast Cape 1850574. 2601.20 8-24-01

Casys DCB Screening 0.5

A	+ 0.23		
13	+ 0.04	— Collect Sample Here for 34	
C	+ 0.27		01NE34SS104
Δ	+ 0.53		
31-1	- 0.31		
31-2	+ 0.14		
31-3	- 0.46		
31-4	+ 0.01		
31-5	- 0.32		
31-6	-0.63		
31-7	- 0.89	- Collect	01NE31SS101
31-8	-0.35		
31-9	-0.88	- Collect	01NE31SS102
31-10	-0.64		
31-11	-0.73	- Collect	01NE31SS103
31-12	-0.66	- Collect	01NE31SS104
31-12D	-0.65		

Douglas Quist 8-31

Northeast Cape 1850574. 2601.20 8-24-01

14-1	+ 0.35		
14-2	- 0.15		
14-3	- 0.71	- Collect	~~01NE31S~~ DP 01NE14SS101
14-4	- 0.85	- Collect	01NE14SS102
14-5	+ 0.26		
14-6	+ 0.26		
14-7	- 0.14		
14-8	-0.17		
14-9	-0.43	- Collect	01NE14SS103
14-10	- 0.14		
14-11	+ 0.15		
14-12	+ 0.05		
14-12D	+ 0.06		

01NE14SS101 1130
01NE14SS102 1135
01NE14SS103 1140 ms/msD
01NE14SS203 1145
01NE14SS303 1150

Douglas Quist 8-24-01

Northeast Cape 1850574.260120 8-24-01

01NE31SS101	1900	DRO/RRO, PCB, PEST	
102	1905	DRO/RRO, PCB, PEST	MS/MSD
103	1920	DRO/RRO, PCB, PEST	
104	1975	DRO/RRO, PCB, PEST	
202	1915	DRO/RRO, PCB, Pest	
302	1910	DRO/RRO, PCB, PEST	
01NE32SS101	2000	DRO/RRO 6"	
102	2005	DRO/RRO @ 1.5-2.0'	

Very Odorous, Diesel Staining Prevalent
Tank Empty. Sampled in depression near Bldg.

01NE32SS103	2010	DRO/RRO, PCB, PEST	
01NE32SS104	2015	DRO/RRO, PCB, PEST	
01NE32SS105	2020	DRO/RRO, PCB, PEST	
01NE31SS121	2025	DRO/RRO, PCB, GRO, BTEX	MS/MSD
01NE31SS 221	2030	DRO/RRO GRO, BTEX	
01NE31SS 321	2035	DRO/RRO GRO, BTEX	

Collected Downgradient in runoff channel from former transformers.

~~22~~

Douglas Quist 8-24-01

Northeast Cape 1850574.260120 8-24-01

01NE31SS122 2100
Collected Under Terminus of Power line @ Sta 32

01NE32SW101 2110
Turb 1.21 NTU
EC 54.5 µS
Temp 2.5 °C
pH 7.22
DO 11.0
Collected Downstream of 32 Upstream of 31

01NE32SS123 2230 Collected @ outlet of outfall from Bldg 1001

01NE32SS124 2240 Collected @ 2nd drain from AST Bermed Containment Dike

01NE32SW102 2245
Turb 0.56 NTU
EC 47.8
Temp 3.9 °C
pH 7.11
DO 11.0

Douglas Quist 2315 8-24-01

Northeast Cape 1850574. 260120 8-25-01

0700 Health and Safety Meeting
Prepare for Well Point Installation
Install Well Points w/ Bill O'Connell
WP 3-102
WP 3-103
WP 3-104

WP 4-102
WP 4-103
WP 4-104
WP 30-1 - Background on E. Side of Cargo Rd
WP 6-1 Refusal @ 5 locations Test Pits had So No water @ 5' water.
WP 6-2

WP 9-1
WP 9-2
WP 9-3
9-4 - No - use MW from 1994

WP 7-1
WP 7-2
WP 7-3

WP 30-2 Background on S Side of C.B. Road S. of 7.

Douglas Gieser 2345-End 8-01

Northeast Cape 1850574. 260128 8-26-01

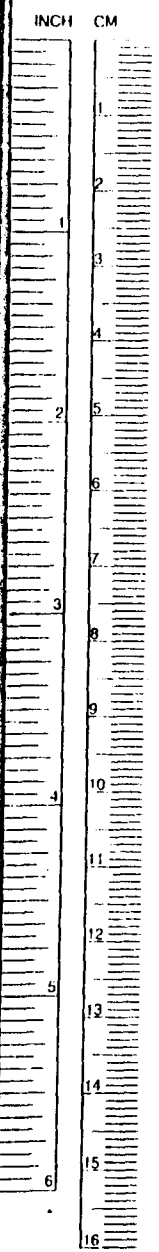
0700- Health & Safety Meeting.
Bill O'Connell and D. Quist to install Remaining Well Points

Begin Sampling W.P.s @ Site 9
Refer to Bill O'Connell Notes and Field Sampling forms.

1400- Prepare Samples for shipment and to Leave Island.

1530- Depart NEC for Nome
1615- Arrive Nome.
Return through Kotzebue due to bad weather
~~2203~~ - Earlier
2330- Arrive Anchorage.

Douglas Gieser 8-01



MEASUREMENT CONVERSIONS

IF YOU KNOW	MULTIPLY BY	TO FIND
LENGTH		
inches	2 540	centimeters
feet	30 480	centimeters
yards	0 914	meters
miles	1 609	kilometers
millimeters	0 039	inches
centimeters	0.393	inches
meters	3 280	feet
meters	1 093	yards
kilometers	0.621	miles
WEIGHT		
ounces	28 350	grams
pounds	0 453	kilograms
grams	0 035	ounces
kilograms	2.204	pounds
VOLUME		
fluid ounces	29.573	milliliters
pints	0.473	liters
quarts	0.946	liters
gallons (U S)	3.785	liters
milliliters	0 033	fluid ounces
liters	1 056	quarts
liters	0.264	gallons (U S)
TEMPERATURE		

°C = (°F - 32) x .555
°F = (°C x 1.8) + 32

Inches	Decimals of foot	Milli-meters
1/16	.0052	1.5875
1/8	.0104	3.1750
3/16	.0156	4 7625
1/4	.0200	6.3500
5/16	.0260	7.9350
3/8	.0313	9 5250
1/2	.0417	12 700
5/8	.0521	15 875
3/4	.0625	19 050
7/8	.0729	22 225
1"	.0833	25 400
2"	.1667	50 800
3"	.2500	76 200
4"	.3333	101 60
5"	.4167	127 00
6"	.5000	152 40
7"	.5833	177 80
8"	.6667	203 20
9"	.7500	228 60
10"	.8333	254 00
11"	.9167	279 40
1 foot	1 0000	304 80

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

Name Melissa Markell
MWH Americas, Inc.
Address 4100 Spenard Rd
Anchorage, AK 99517
Phone (907) 266-1118

Project Northeast Cape, Alaska
2001 Phase III Remedial Investigation
1850574.260120
17 August 2001 – 28 August 2001
Client: USACOE Alaska District
Work order #: 01-065

"Rite in the Rain" - a unique all-weather writing surface created to shed water and to enhance the written image. Makes it possible to write sharp, legible field data in any kind of weather.

a product of

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TACOMA, WA 98421-3696 USA

Photo Log

1850574.260120 USACOE Northeast Cape

Photo Log

Pile Driving

Sal F SW/SD

CONTENTS

PAGE	REFERENCE	DATE
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148-153	sample field forms	

phone numbers

Infotrac 24-hour hazmat response:
(352) 323-0091

Anchorage office:
1-888-686-6442

St. Lawrence Island:
Sandi Billingsley, Site Superintendent
ph: 770-1973, fax: 770-2559
COE office ph: 770-2562 fax: -2565
medical trailer: 770-2583
~~Const. office:~~ myum

Jane Whitsett:
266-1122 hm: 677-3576

Gary Busse:
266-1140 hm: 345-8424

Liese Geist:
ph: 753-5742 fax: 753-2820

Rich Jackson:
ph: 753-5606 fax: 753-5626

Alaska Airlines:
cargo acct # 2744-006515-1
mileage # 04309841 MVP
conf # GHYNRO
schedule: ANC → NOME 8/17
9:20a 12:14p
NOME → ANC 8/27
8:09p 9:35p

1850574.260120 USACOE Northeast Cape

8/17/01
0800 meet at FOX, depart for airport; field crew:
Bonnie McLean, FTL
Doug Quist
Eileen Maus
Johanna Dreher
Bill O'Connell
Melissa Markell (me ☺!)
1200 arrive Nome, take gear to Bering Air
1400 arrive NEC,
offload gear
1430 Nugget safety briefing by Brian Green (HSO), Nugget
1445 organize gear.
2000 done for the day

total hours = 12

Photo CD

8-18-01

0700 Nugget safety meeting
0715 mwH safety meeting
0720 prep for Site 28 sampling
- replace membrane on DO meter (YSI); calibrated last night 1800
- calibrate pH meter (Beckman Φ255 pH/temp)
0740 work w/ Doug to prep gear
0815 get ATVs, get fuel
0900 connect trailers, head out to Site 28
0915 arrive Site 28 CS-1
measure CS-1 124'
A-E is West to East

point	dist from W	H2O depth	tape color
A	13' ~~mean~~	0'	orange
B	32 ~~28.5~~'	0.5'	green
C	52'	0.5'	blue
D	71.5'	0'	green
E	91'	0'	orange

abundant organic sheen, no odor
water is amber in color
0945 photograph CS-1
unpack instruments
collect SW at 15' from W
water 2' deep

1850574.260120 USACOE Northeast Cape

8-18-01

0950 collect parameters on SW CS-1A

temp	cond ~~mS~~ mS/cm	pH
4.1°C	195.5 ~~µS~~	6.63

Accu-Vac

DO:	HACH	YSI
	9.6 mg/L	8.3 mg/L

1002 collect SW samples
parameters: DRO
RRO
PCB
primary + ms/msd: 01NE28SW111
duplicate: 01NE28SW211
triplicate: 01NE28SW311 + ms/msd
COE split: 01NE28SW411
1025 collect SD samples CS-1A
parameters: DRO, RRO, PAH, PCB, Pb, Zn, Cr, TOC

depth: 0-6"
primary & ms/msd: 01NE28SD111
duplicate: 01NE28SD211
triplicate: 01NE28SD311 + ms/msd
COE split: 01NE28SD411

Photo Log

8-18-01
1040 collect SD CS-1A 2nd
depth: 18" hand auger core
parameters: DRO, RRO
PAH, PCB, TOC
Pb, Zn, Cr
primary: 01NE28SD112
1045 collect SD CS-1B
depth: 6" stainless steel spoon
parameters:
DRO, RRO, PAH, PCB, TOC
Pb, Zn, Cr
primary: 01NE28SD113
1050 collect SD CS-1C
depth: 6" stainless steel spoon
parameters: DRO, RRO, PAH
PCB, TOC
Pb, Zn, Cr
primary: 01NE28SD114
1055 collect SD CS-1D
depth: 6" stainless steel spoon
parameters: DRO, RRO, PAH
PCB, TOC
Pb, Zn, Cr
primary: 01NE28SD115

8-18-01
1100 collect SD CS-1E
depth: 6" stainless steel spoon
parameters: DRO, RRO, PAH
PCB, TOC
Pb, Zn, Cr
primary: 01NE28SD116
1115 clean up, move on to CS-2
100' upgradient of CS-1
measure CS-2 96'

point	dist from W	H_2O depth	tape color
A	4.5'	0	green
B	25'	0.x3 max	orange
C	45.5'	0	blue
D	66'	max 0.x1	orange
E	85'	0	green

1140: photograph CS-2
pack up, break for lunch
deliver samples to sample handlers: Eileen & Johanna
1215 copy field notes for Eileen, go over samples collected
1245 get ready for more sampling, load coolers
1305 head out to site 28

Photo Log

8-18-01

1320 arrive CS-2

1325 Collect SD CS-2A 1st A+3'
depth 6" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD117

1335 Collect SD CS-2A 2nd A+3'
depth 18" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD118

1340 Collect SD CS-2B
depth = 6" stainless steel spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD119

1345 Collect SD CS-2C
depth = 6" stainless steel spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD120

1350 Collect SD CS-2D
depth = 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD121

8-18-01

1355 Collect SD CS-2E
depth = 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD122
note: surface water has abundant organic sheen
- SW & SD have rotting organic odor

1405 clean up, move on to CS-3, locate CS-3

1425 stage gear at CS-3
measure CS-3 78'

point	dist from W	H2O depth	tape color
A	13'	0'	green
B	26'	0'	orange
C	39'	1.5'	blue
D	52'	0'	orange
E	65'	0.2'	green

1440 photograph CS-3
get ready for SW samples

Photo CS-2

8-18-01
1445 collect SW at CS-3
parameters:

pH	temp °C	cond. mS/cm
6.52	3.9	201.9

DO: Hach 8.9 mg/L YSI 7.1 mg/L
depth: 4" teflon dipper
1455 parameters: DRO, RRO, PCB
primary: 01NE28SW112
note: abundant organic/iron precipitate, floating & adhering to underwater plants
1510 collect SD CS3-A1
depth = 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD123
1520 collect SD CS3-B1
depth = 6" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD124
- while augering down deeper to collect next sample, observed 2 distinct silt layers: black & gray

1850574.260120 USACOE Northeast Cape

8-18-01
1525 collect CS-3B 2nd
depth = 1.5' hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary, ms/msd: 01NE28SD125
duplicate: 01NE28SD225
triplicate: 01NE28SD325
1540 collect SD at CS-3C
depth = 6" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD126
COE split: 01NE28SD426
1545 collect SD at CS-3D
depth = 6" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD127
1550 collect SD at CS-3E
depth = 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD128

8-18-01

1555 clean up, head to CS-4
100' upgradient of CS-3

1558 stage gear at CS-4

1600 measure CS-4 100'

point	dist. from W	H_2O depth	tape color
A	3'	0	green
B	~~20.5'~~	~~0~~	orange
C	38'	6"	blue
D	55.5'	3"	orange
E	73'	0	green

1605 photograph CS-4, prep for SD sampling

1610 collect SD at CS-4A
depth: 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD129

1615 collect SD at CS-4B
depth: 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD130

MyM

8-18-01

1620: collect SD at CS-4C 1st
depth: 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD131

1625 collect SD at CS-4C 2nd
depth = 18" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD132
note: both samples at CS-4C black w/ strong fuel odor

1630 collect SD at CS-4D
depth = 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary 01NE28SD133

1635 collect SD at CS-4E
depth: 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary 01NE28SD134

1645 pack up, look for CS-5 location

MyM

Photos

1850574.260120 USACoE Northeast Cape

8-18-01

1655 CS-5 location across wide lake area

1700 Collect SW parameters at ~~CS-5~~ CS-45

cond uS	temp	pH
113.9	10.2°C	7.36

DO: HACH 11.0 mg/L YSI 10.5 mg/L

note: ~~fuel~~ sheen bubbles to surface as we walk in the sediments

1710 Collect SW at CS-~~5~~45
depth = 3" teflon dipper
parameters: DRO, RRO, PCB
primary: 01NE28SW113
note: collected SW sample before placing x-section tag line because placing tag line & staking points would churn up sediment in the lake

1725 place east & west end stakes at CS-5; plan to measure tag line & collect SD samples tomorrow

mgm

8-18-01

1735 pack up, head back to camp, drop off samples w/ Eileen & Johanna

1755 break for dinner

1830 copy field notes for Eileen

1840 assist Doug: down-loading digital camera images to computer & adding labels

1900 fill out field forms

2000 done w/ field forms! done for the day!

mgm
total hours = 12.5

Photo Log

1850574.260120 USACOE Northeast Cape

8-19-01

0730 safety meeting
0745 calibrate & prepare instruments
- replace membrane on YSI DO meter
0800 break for breakfast
0815 load gear, sample jars put on chest waders
0845 head out to fuel station
0900 fuel ATVs
0915 go to Site 28 with Doug
0930 place stakes
0945 measure CS-5 160'

point	dist from W	H_2O Depth	tape color
A	70'	0'	green
B	92.5'	0.9'	orange
C	115'	1.5'	blue
D	137.5'	2.1'	orange
E	160'	0.2'	green

0950 photograph CS-5
note: SW sample 01NE28SW113 was collected at CS-5B
1000 collect SD at CS-5A
depth = 6" Stainless steel spoon
parameters: DRO, RRO, PAH, PCB, TOC Pb, Zn, Cr

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17

8-19-01

1000 primary: 01NE28SD135
uniform silt, slight odor
- fuel sheen bubbles up when we disturb the sediments
1010 collect SD at CS-5B
depth: 6" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD136
strong fuel odor, silty, black organic-rich, silt & peat
1015 collect SD at CS-5C 1st
depth: 6" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD137
slight odor, some black stains
1025 collect SD at CS-5C 2nd
depth: 18" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD138
slight odor, some black stains

Photo CS-5

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8-19-01

1035 collect SD at CS-5D
depth: 6" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD139 + MS/MSD
duplicate: 01NE28SD239
triplicate: 01NE28SD339
moderate odor, minor sheen

1055 collect SD at CS-5E
depth: 6" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD140

1100 pack up, move to CS-6 100' upgradient from CS-5

1110 measure CS-6 160'

point	dist from W	H_2O depth	tape color
A	63'	0'	green
B	84.5'	0.1'	orange
C	106.5'	0.6'	blue
D	128'	0.6'	orange
E	150'	0'	green

1125 photograph CS-6

1135 break for lunch, pack

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8-19-01

collected samples, go back to camp

1145 give samples to Eileen, throw away garbage, clean up

1200 lunch

1230 pack up more sample jars, baggies, etc.

1250 go back out to Site 28

1310 arrive site 28 CS-6
collect SD @ CS-6A
depth: 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD141
moderate fuel odor, sheen

1315 collect SD at CS-6B
depth: 6" SS spoon, hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Zn, Pb, Cr
primary: 01NE28SD142
strong fuel odor, lots of sheen when sediments disturbed

Photo Log

Sampling SW/SD

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8-19-01

1325 collect SD at CS-6C 1st
depth: 6" hand auger core
parameters: DRO, RRO, PAH,
PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD143
strong fuel odor & sheen

1335 collect SD at CS-6C 2nd
depth: 18" hand auger core
parameters: DRO, RRO, PAH,
PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD144
fuel odor, staining, sheen

1345 collect SD at CS-6D
depth: 6" hand auger core
parameters: DRO, RRO, PAH,
PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD145
fuel odor, staining, sheen

1355 collect SD at CS-6E
depth: 6" SS spoon
parameters: DRO, RRO, PAH,
PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD146
fuel odor, slight sheen

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8-19-01

1400 pack up gear, move on to CS-7

1410 locate CS-7
collect SW parameters:

pH	temp	conductivity
7.4	5.2°C	138.6 uS

DO: HACH 8.8 mg/L YSI 7.9 mg/L

1415 collect SW sample:
depth 2" teflon dipper
Parameters: DRO, RRO, PCB
primary: 01NE28SW114

1425 locate CS-9
collect SW parameters:

pH	temp	cond.
6.96	5.3 °C	81.7 uS

DO: HACH 9.0 mg/L YSI 9.6 mg/L

1430 Collect SW sample:
depth: 2" teflon dipper
parameters: DRO, RRO, PCB
primary: 01NE28SW115
- no sheen, no stains, no fuel odor; water looks very clean here

Photo C69 starting SW/SD CS-6 SW/SD

8-19-01
1445 measure CS-7 14.4'

point	dist from W	H_2O depth	tape color
A	3.7'	0'	orange
B	7.7'	0.2'	blue
C	11'	0'	orange

- abundant scum on water
- high water ≈ 2.4' higher than present water surface

1450 photograph CS-7
1455 collect SD at CS-7A 1st
depth: 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD147
fuel odor, sheen
1505 collect SD at CS-7A 2nd
depth: 1.5' hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD148
1510 collect SD at CS-7B 1st
depth: 6" SS spoon, hand auger
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD149

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8-19-01
1520 collect SD at CS-7B 2nd
depth: 1.5' hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD150
1530 collect SD at CS-7C 1st
depth: 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD151 + ms/msd
duplicate: 01NE28SD251
triplicate: 01NE28SD351
COE split: 01NE28SD451
1545 collect SD at CS-7C 2nd
depth: 1.5' hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD152
note: all samples have strong fuel odor, sheen, black staining
1550 pack up, move to CS-8
1555 locate CS-8 42.5' upgradient of CS-7
- measure CS-8

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8-19-01

CS-8, 12' total

point	dist. from W	H_2O depth	tape color
A	2' ~~from~~	0'	orange
B	6'	0.63'	blue
C	10'	0'	orange

- abundant fuel odor, sheen, debris
- CS-8 placed at only location in the area without sheet metal in stream bed

1610 collect SD at CS-8A 1st
depth: 6" ss spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD153
duplicate: 01NE28SD253
triplicate: 01NE28SD353

1620 collect SD at CS-8A 2nd
depth: ~~6~~ 1.5' hand auger core
parameters: DRO, RRO, PAH, PCB TOC, Zn, Pb, Cr
primary: 01NE28SD154
- soil rocky, abundant coarse sand, minimal native peat

Mylh

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8-19-01

1625 Collect SD from CS-8B 1st
depth: 6" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD155

1630 collect SD from CS-8B 2nd
depth: ~~6~~ 1.5' hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD156

1635 Collect SD from CS-8C 1st
depth: 6" ss spoon
parameters: DRO, RRO, PAH, PCB, TOC, Zn, Pb, Cr
primary: 01NE28SD157
duplicate: 01NE28SD257
triplicate: 01NE28SD357

1645 Collect SD from CS-8C 2nd
depth: 1.5' hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Zn, Pb, Cr
primary: 01NE28SD158

note: abundant staining, sheen, fuel odor in all samples

Mylh

Photo Log

Drilling Log

Soil & SW/SD

20

8-19-01

1655 pack up gear in trailers, prepare to go back to camp
1700 radio message from Bonnie to pick up Johanna at Site 7
1710 Doug goes back to camp, I go to site 7
1715 arrive Site 7, get Johanna
1720 arrive at camp
- unload gear, instruments
- give samples to Eileen
- clean out trailers
1745 start filling out field forms
1800 break for dinner
1830 fill out field forms
1905 fire drill!
1915 back to work
2000 done with field forms
- help Eileen & Johanna pack coolers, make CoCs
2115 done for the day!

LMLMarkell total hours = 12.5

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8-20-01

0700 Nugget Safety meeting
0715 MWH Safety meeting
0720 sign chains of custody & custody seals; assist in packing & prepping coolers for today's shipment
0900 take coolers to runway staging area; prep for sampling
0910 ~~calibrate~~ MWH calibrate instruments, load trailers
0920 head out for CS-11 & 12 w/ Doug
0930 arrive CS-11 & 12 area,
- locate surface water from which to collect sample
- locate CS-12 100' downgradient of toe of Site 10
- locate CS-11 200' downgradient of CS-12
1000 Collect SW parameters at CS-11

Cond. µS	Temp °C	pH	turbidity
66.6	4.8	8.61	2.27 NTU

DO: HACH 8.7 mg/L YSI 8.9 mg/L

LMLM

Photo Log

SW/SD

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8-20-01

1010 Collect SW sample at CS-11
depth: 2" teflon dipper
parameters: DRO, RRO, PCB
primary: 01NE28SW116
- water slightly smelly (fuel) w/ sheen

1015 measure CS-11 60'

point	dist from S	H_2O depth	tape color
A	3'	0'	green
B	16'	1"	orange
C	29'	0'	blue
D	42'	0'	orange
E	57'	0'	green

- soils saturated
- surface water sample collected 6' downgradient of CS-11C

1020 collect SD at CS-11A
depth: 6" stainless steel spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD171
duplicate: 01NE28SD271
triplicate: 01NE28SD371
CDE split: 01NE28SD471
no sheen or odor

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8-20-01

1030 collect SD at CS-11B
depth: 6" stainless steel spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD172

1035 collect SD at CS-11C 1st
depth: 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD173

1040 collect SD at CS-11C 2nd
depth: 1.5' hand auger core
parameters: DRO, RRO, PCB, PAH, TOC, Pb, Zn, Cr
primary: 01NE28SD174
still no sheen or odor at this X-section

1045 collect SD at CS-11D
depth: 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD175
duplicate: 01NE28SD275
triplicate: 01NE28SD375

Photo Log
SW/SD

8-20-01

1055 collect SD at CS-11E
depth 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD176

1100 pack up, move to CS-12
measure CS-12 90.5'
note: disturbed area at south end of x-section

point	dist. from S	H_2O depth	tape color
A	44'	2"	green
B	51.5'	2"	orange
C	59	1"	blue
D	66.5'	1"	orange
E	74'	0'	green

note: fuel? sheen at A; organic sheen at B, C, & D
- checked out sheen at A: breaks up, no rainbow effect, so it's organic

1110 photograph CS-12

1115 collect SD at CS-12A
depth: 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr

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8-20-01

1115 collect primary: 01NE28SD177

1120 collect SD at CS-12B
depth: 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD178
- no fuel odor, stain, or sheen at 1st 2 CS-12 samples

1125 collect SD at CS-12C 1st
depth: 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD179
- slight fuel odor; no stain or sheen

1130 collect SD at CS-12C 2nd
depth: ~~6~~ 7.5' hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD180
- slight fuel odor, no stain or sheen

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8-20-01

1135 collect SD at CS-12D
depth: 6" ss spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD181
-no odor or sheen

1140 collect SD at CS-12E
depth: 6" ss spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD182
-no odor or sheen
-note: soils at CS-12 coarse sand & gravel; gravel angular, up to 2"; some silt, iron staining

1145 pack up, load trailers, head back to camp

1155 arrive camp, drop off samples with Eileen & Johanna

1200 break for lunch

1230 get organized for afternoon; copy field notes for Eileen

Melissa Mark

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8-20-01

1315 depart for CS-9 & 10

1325 arrive at CS-9 & 10
measure CS-9 14.0'

point	dist. from W	H_2O depth	tape color
A	3.5'	0'	orange
B	7.5'	0.5'	blue
C	11.5'	0'	orange

abundant debris in stream

1335 go to CS-10 50' upgradient of CS-9

1340 measure CS-10 29'

point	dist. from W	H_2O depth	tape color
A	3'	0'	orange
B	14'	0.6'	blue
C	25'	0'	orange

-note: SW sample 01NE28SW115 was collected approx. 30' downgradient of CS-9 because of stream debris
-turbidity = 2.12 NTU
-turbidity of SW-114 (CS-7) = 5.13 NTU
-turbidity of SW-113 (CS-5) = 11.0 NTU
-we're collecting turbidity measurements today because Bonnie had the turbidity meter at her sites yesterday & Saturday.

Lmylin

Photo Log
Drilling Log
Soil = SW/SD
GW Form

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8-20-01

1355 Collect SD at CS-9A 1st
depth: 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD159
~~duplicate~~ ~~triplicate~~ ~~COE split~~
- fuel odor, angular gravel in sediments

1405 collect SD at CS-9A 2nd
depth: 12" auger refusal
hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD160
- abundant gravel & cobbles, fuel odor

1410 collect SD at CS-9B 1st
depth: 6" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD161
- fuel odor, gravel

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8-20-01

1415 collect SD at CS-9B 2nd attempted, but auger refusal at 6"; moved auger & tried angled entry at several points, but still got refusal
- primary sample 01NE28SD162 not collected

1430 collect SD at CS-9C 1st
depth: 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD163
duplicate: 01NE28SD263
triplicate: 01NE28SD363
COEsplit: 01NE28SD463
- strong fuel odor, abundant gravel

1440 collect SD at CS-9C 2nd
depth: 18" auger refusal
hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE28SD164
- fuel odor, gravel

Photo Log
Drilling Logs
Soil & GW Forms
SW/SD Form

8-20-01

1445 pack up gear, move to CS-10

1450 collect SD at CS-10A 1st
depth: 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE285D165
fuel odor, gravel

1455 collect SD at CS-10A 2nd
depth: ~~6~~ mgm 1.5' hand auger core
parameters: DRO, RRO, TOC, PAH, PCB, Zn, Pb, Cr
primary: 01NE285D166
mgm fuel odor

1505 collect SD at CS-10B 1st
depth: 6" hand auger core
parameters: DRO, RRO, TOC, PAH, PCB, Zn, Pb, Cr
primary: 01NE285D167
fuel odor, gravel

1510 collect SD at CS-10B 2nd
depth: 18" hand auger core,
parameters: DRO, RRO, TOC, PAH, PCB, Zn, Pb, Cr
primary: 01NE285D168
fuel odor, gravel mgm

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8-20-01

1515 collect SD from CS-10C 1st
depth: 6" SS spoon
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE285D169
-fuel odor, very gravelly

1530 collect SD from CS-10C 2nd
depth: 8" hand auger core refusal due to abundant gravel & cobbles
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE285D170
-fuel odor

1540 pack gear, get flow meter & flow measurement equipment

1550 head out to where drainage basin enters Sugi River

1605 locate flow Station #1
- upgradient of drainage basin/Sugi River confluence
- equipment: Marsh-McBirney Flow-Mate 2000

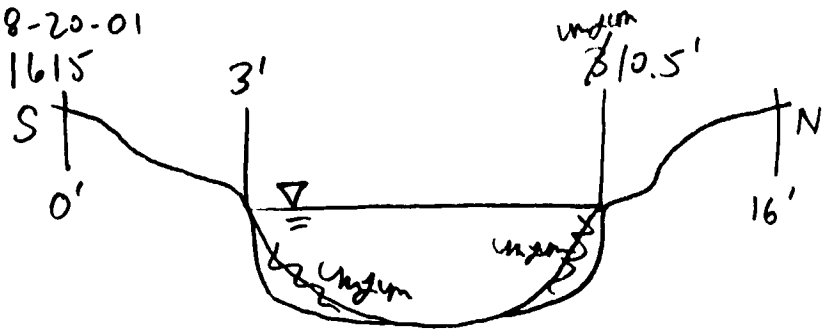
mgm

Photo Log
Drilling Log
Soil/GW/SW/SD Sampling Log

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8-20-01

1615



dist from S.	depth (H_2O)
3.0'	0.75'
4.0'	1.0'
5.0'	2.1'
6.0'	2.3'
7.0'	2.35'
8.0'	2.5'
9.0'	2.5'
10.0'	1.8'
10.5'	0.9'

1620 start readings:
center = 6.75' from S mark
H_2O depth = 2.4'

H_2O depth	reading in ft/sec
2.4' x 0.6 = 1.44'	0.30
2.4' x 0.2 = 0.48'	0.09
2.4' x 0.4 = 0.96'	~~0.10~~ 0.27
2.4' x 0.8 = 1.92'	0.71

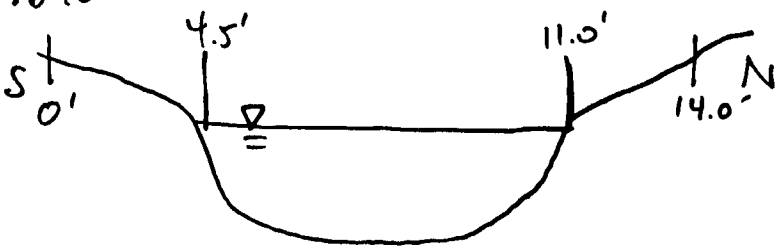
umyum

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8-20-01

1625 finish readings, photograph site, pack gear, move to flow station #2, downgradient of Drainage Basin flow

1645



dist from S.	H_2O depth
4.5'	1.15'
5.0'	1.7'
6.0'	2.05'
7.0'	2.15'
8.0'	2.15'
9.0'	2.2'
10.0'	2.2'
11.0'	2.0'

Center = 7.25' from S mark
H_2O depth = 2.2'

1650 start readings
(next page)

umyum

Photo Log
Salmon SW/SD Comp. Prgm

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8-20-01

reading depth in H_2O (from bottom)	velocity ft per second
2.2' x 0.2 = 0.44'	0.34
2.2' x 0.4 = 0.88'	0.65
2.2' x 0.6 = 1.32'	0.85
2.2' x 0.8 = 1.76'	0.87

1700 - finish readings, photograph site, pack gear
1715 get turbidity at CS-1
turb = 4.61 NTU
1720 turbidity at CS-3 = 5.14 NTU
go back to camp
1735 arrive at camp, drop off samples, unload trailers, pack gear & instruments into connex & office, copy notes for Eileen
1800 break for dinner
1830 assist Eileen with sample jar packaging & paperwork - Melissa will help Eileen while Doug & Johanna collect samples from Site 29 (Sugi River).

MyM

8-20-01 Johanna Diether and Doug Quist
19:25 Photograph Sample Site
Turb. SW117
1.73 ntu Clear H_2O
No sheen or odor
Ec.
233 uS
Temp.
8.3°C
pH
8.3
DO used HACH
11 mg/L

1940 Collect SW 117 Samples
depth: 3 inches using Teflon dipper
19:40
primary: 01NE29SW117 & MS/MSD
(1945)
duplicate: 01NE29SW217
~~1950~~ JLD
triplicate: 01NE29SW317

parameters → DRO/RRO GRO/BTEX
PCB PAH SIM TAL Metals

JLD

Photo Log
Primary Copy
SW117 SW/SD Form

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8-20-01

2015 returned to Camp
dropped off Samples
Clean up Equipment

2030 Done Johanna L. Dreher

8-20-01 Melissa Markell
2000 finish sample packing
done for the day!

Melissa J Markell
total hours: 12.0

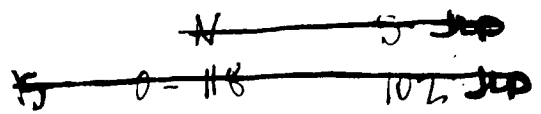
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8-21-01

0700 Nugget Safety Meeting
0730 MWH Safety Meeting
0745 assist Eileen w/ sample packing & labels while Johanna assists Doug with sample collection at Site 29 (Sugi River)

8-21-01 Johanna Dreher & Doug Quist
0815 arrive at Sample location

Sugi River Cross section 4



Measure CS-4 118'

Point	distance from S	Tape Color
A	15'	0' green
B	44'	2½' blue
C	102'	0' green

0835 photograph CS-4 location
Collect SD Samples
Parameters → PAH, Pb Zn Cr, DRO/RRO, PCB, TOC

Photo Log
Drilling Logs
Soil FSW/SD GW Forms

8-21-01

01NE29SD123

0900 primary 01NE29SD123 CS-4a

depth 6 inches

Parameters: PAH, PCB, TOC, DRO/RRO
~~PAH~~ MD Pb Zn Cr

0910 Collect SD at CS-4b

primary: 01NE29SD124

depth: 3ft

parameters: PAH, PCB, TOC, DRO/RRO, TOC

not taken at Outer, Closer to 4c when pulled up a sheen is present

0940 Collect SD at Cs-4c

depth: 1.7ft ~~1.25~~ MD

0950 primary: 01NE29SD125 & MS/MSD

(0955) ~~(0955)~~ duplicate: 01NE29SD225

(1000) triplicate: 01NE29SD325

(1005) COE split: 01NE29SD425

Parameters: PAH, PCB, DRO/RRO
TOC, Pb Zn Cr

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8-21-01

1025 Collect SD 128

Parameters: DRO/RRO PAH
PCB TAL Metals
GRO BTEX

~~primary 01NE29SD128~~ MD

depth 1.7 ft.

primary: 01NE29SD128

1040 photograph sample location

1045 Collect SD 129

Parameters: DRO/RRO PAH PCB
GRO BTEX TAL metals

depth 1.7 ft

primary: 01NE29SD129

1055 Photograph location

1100 return to camp
drop off samples

Johanna Dreher

Photo Log

Sampling Log

SW/SD GW Ecosystem

8-21-01 Melissa Markell
assisted Eileen with sample packing & jar labels until noon
1200 break for lunch
1230 prep for afternoon sampling, load coolers, get ice, stock up on decon supplies, gloves, bug nets, check radios
1305 depart for sampling site
1330 arrive SW/SD sampling location 116 on Sagiliver
1335 collect SW sample
field parameters:

pH	temp °C	EC µS	turb NTU	Hach DO mg/L
7.43	6.9	2.175	2.08	11.0

collect SW sample
depth: 3" teflon dipper
parameters: GRO/BTEX, DRO, RRO, PAH, PCB, TAL metals
primary: 01NE29SW116
1355 place stakes & measure ~~CS~~ SC-3 17.5'

point	dist. from S	H_2O depth	tape color
A	2.0	0.6'	green
B	8.5	1.2'	blue
C	15	0.5'	green

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8-21-01
1400 collect SD from SC-3A
depth: 6" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE29SD120
-very gravelly
1405 collect SD from SC-3B
depth: 6" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE29SD121
- all coarse sand & gravel
- no silt!
1415 collect SD at SC-3C
depth: 6" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE29SD122
- all coarse sand & gravel
1425 pack up, get back to road
1430 stuck in mud!
1440 back on the road, going to camp to drop off samples

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8-21-01

1445 back at camp, dropped off samples, get rid of ATV trailer

1455 back to the River for more sampling

1510 arrive SC-2: wide spot in the river with an eddy
- measure SC-2: 24'

point ↓	dist from East (actually S)	H_2O depth	tape color
A	2.0'	0'	green
B	10.25'	1.5'	blue
C	22.5'	2.0'	green

1520 photograph SC-2

1525 collect SW field parameters: HACH

pH	condmS	temp °C	TURB NTU	DO mg/L
7.38	142.3	7.2	1.8	10.8

1530 collect SW sample
depth: 3" teflon dipper
parameters: GRO, BTEX, DRO, RRO, PAH, PCB, TAL metals
primary: 01NE29SW115

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1540 collect SD at SC-2A
depth: 6" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE29SD117
- coarse sand & gravel; very little silt, if any

1545 collect SD at SC-2B
depth: 6" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE29SD118
- gravel w/ coarse sand & rotted vegetation
- no fines!

1550 collect SD at SC-2C (eddy)
depth: 6" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE29SD119
- silt (finally!) with gravel & peat

note: no sheen or odor observed at SC-2

1600 pack, move on

8-21-01
1615 arrive SC-1; measure: 10.9'

point	dist. from S	H_2O depth	tape color
A	1.0'	1.0'	green
B	5.0'	1.35'	blue
C	9.0'	1.3'	green

1625 photograph SC-1
collect SW field parameters

~~pH~~	~~EC mS~~	~~temp C~~	~~Turb NTU~~	HACH
~~7.17~~	~~138.4~~	~~7.6~~	1.50	11.0

collect SW samples
depth: 3" teflon dipper
parameters: GRO, BTEX, DRO, RRO, PAH, PCB, TAL metals
primary: 01NE29SW114
1630 collect SD at SC-1A
depth: 6" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary + MS/MSD: 01NE29SD114
(1635) duplicate: 01NE29SD214
triplicate: 01NE29SD314
COE split: 01NE29SD414
- no sheen or odor
- silt w/ peat & gravel

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8-21-01
1650 collect SD at SC-1B
depth: 6" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE29SD115
- coarse sand, gravel, rotten vegetation - no fines!
1700 collect SD at SC-1C
depth: 6" hand auger core
parameters: DRO, RRO, PAH, PCB, TOC, Pb, Zn, Cr
primary: 01NE29SD116
- silt
note: no sheen or odor at SC-1
1715 pack up, go to Suqi River sediment sampling sites near headwaters
1735 arrive at sed. sample site #127; take photos
1740 collect SD, depth: 6" hand auger core in eddy
parameters: GRO, BTEX, DRO, RRO, PAH, PCB, TAL metals
primary: 01NE29SD127
COE split: 01NE29SD427

Photo Log
Drilling Log
Soil / SW/SD GW Forms Book

8-21-01

no sheen or odor at SD127
1750 move on to next site
1755 arrive at 126, photograph site
1800 collect SD sample; 6" deep hand auger core
parameters: GRO, BTEX, DRO, RRO, PAH, PCB, TAL metals
primary: 01NE295D1276 unpres
COE split: 01NE295D4276 unpres
1810 pack up, go back to camp
1815 arrive camp, put samples in sample connex, unload gear
1830 break for dinner
1900 ice samples, clean up, fill out field forms
2000 done for the day!

Melissa Marks
total hours: 12.0

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8-22-01

0700 no Nugget safety meeting because of weather: rain and wind at 45 mph, with gusts to 60 mph
- Nugget not working today
- too windy for MWH to work outside, so we'll be catching up on paperwork

1100 finished field forms, cross-checked COCs w/ field notes, reviewed work plan, copied notes for Eileen & Bonnie; now taking a break
1500 prep for sampling at Site 9, load gear & bottles
1530 go to Site 9 SW/SD sampling site at south side of landfill w/ Bill O'Connell
1545 collect SW field parameters

pH	temp °C	cond uS	DO mg/L (Hach)	turb. NTU
7.14	9.9 unpres	91.6	no data	no data

1600 collect SW sample
depth: 3" teflon dipper
parameters: GRO, ~~BTEX~~ dmtbe, DRO, VOC, RRO, PAH, TAL metals, PCB unpres

see p9 61

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8-22-01 mjm

1600 collect SW sample
primary: 01NE09SW109
- no sheen or odor - but very windy so we couldn't smell anything anyway (also raining)

1630 return to camp, drop off samples, then back to Site 9

1650 collect SD sample
depth: 6" stainless steel spoon
parameters: DRO, RRO, PCB, TAL metals, PAH, VOCs
primary: 01NE09SD109
- silty & peaty w/ lots of roots

See pg 61

1700 return to camp, put away gear, give samples to Eileen & Johanna

1730 work on electronic field forms

1815 break for dinner

1845 back to work on forms

1930 done for the day!

mjm

total hours: 8.0

see next page

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8-22-01

1735 the plane is coming after all! (the weather has cleared up) so - cooler icing & sealing

1835 done!

mjm

total hours: 9.0

8-23-01

0700 Nugget safety meeting
0715 MWH safety meeting
0730 prep for Site 16 sampling, check instruments
0830 load equipment & sample bottles into trailer
0900 depart camp for Site 16 with Johanna Dreher
0915 arrive Site 16, locate wells & proposed soil sampling sites - no obstructions! ☺ lots of connexes staged at site
0920 set up at well 16-2 monitoring well; frost jacked above protective casing
- protective casing height: 3.32 ftags
- pvc casing height: 3.36 ft ags
- well depth below top pvc: 16.65 ft
- water level below top pvc: 13.25 ft
- pvc casing inner diameter: 2"
- water column height: 3.40 ft

3.40 × 0.163 = .55420

one casing volume = .55 gallons
min. purge vol. ≅ 1.75 gal.
equipment: disp. bailer & bucket

8-23-01

0935 begin purge at MW 16-2

gallons	time	temp °C	pH	cond uS
0.55	0940	2.6	7.66	161.8
1.20	0945	2.8	7.05	153.1
2.0	0955	2.5	6.89	154.0
2.5	0958	2.6	6.83	153.1

1000 Turbidity: 1000+ NTU
no sheen or odor; water silty
1005 collect SW sample
disposable bailer
parameters: SVOC
primary: 01NE16GW102
-oops! dropped the spout in one of the bottles
1015 photograph site, put lid on purge/decon water bucket, move to 16-3

final H_2O level: 13.25 ft below pvc mark

8-23-01 Johanna Dreher
1020 Set up at Well 16-3
well condition is good
marking readable
Castings & Pad intact
- protective casing: 2.83 ft ags
- pvc casing height: 2.603 ft ags

8-23-01

- Well depth below top PVC: 17.28
- Water depth top PVC: 13.81
- PVC inner diameter : 2"
- Water Column height : 3.47

3.47 one casing vol : .56
× 0.163 min. purge : ≈ 2 gallons
141
1062
347
56461

equipment : disp. bailer & Bucket

1070 begin purge at mw 16-3

gallons	time	temp °C	pH	Cond mS
.75	1035	3.3	7.45	155.5
1.25	1037	2.2	7.22	148.0
2.00	1040	2.2	7.14	145.5
2.75	1043	2.4	7.10	141.7
3.25	1045	2.1	7.06	142.5

Turb. 119 NTU
no Sheen or Odor, silty at first Cleared up
1045 Collect Sample w/ dis. bailer
Primary : 01NE16GW103
Parameters: SVOC

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8-23-01
final water level 13.83 ft below PVC

1055 purge Decon water bucket put on lid and load
1100 photo graph site move to site
16-1

8-23-01 Melissa Markell
1105 arrive MW 16-1; monitoring well in good condition (casings, caps, & pad undamaged, markings readable)

- protective casing height: 3.25 ft ags
- pvc casing height: 2.93 ft ags
- well depth below top PVC: 16.76 ft
- water level below top PVC: 13.59 ft
- pvc casing inner diameter: 2"
- water column height: 3.17 ft

3.17 one casing volume ≅ 0.5 gal
× 0.163 min purge vol ≈ 1.5 gal
951
1902
317
.51671

equipment: disp. bailer & bucket

60

8-23-01

1115 begin purge at MW 16-1

gallons	time	temp °C	pH	cond. uS
0.5	1118	3.1	7.22	244.9
1.0	1120	2.6	7.07	204.5
1.5	1123	2.5	7.01	201.9
2.0	1126	2.7	6.96	189.8
2.5	1130	2.5	6.95	190.4

1130 turbidity = 49.2 NTU
no sheen or odor; water silty at well bottom, but clearer above

1135 collect SW samples w/ disposable bailer
parameters: SVOC
primary + MS/MSD: 01NE16GW101
(1140) duplicate: 01NE16GW201
triplicate + MS/MSD: 01NE16GW301

1150 final H_2O depth = 13.72 ft

1152 stage buckets of purge/decon water at water treatment area (adjacent to Site 16), pack up gear, head back to camp

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8-23-01

1205 arrive at camp, give sample coolers to Eileen, unload gear

1215 break for lunch

1245 copy notes for Eileen

1250 reviewed work plan maps & discovered that yesterday's Site 9 surface water & sediment samples were collected in the wrong location
- previous samples 01NE09SW109 & 01NE09SW109D will be discarded
- samples collected at the correct location later today will be assigned these sample numbers

1315 prep for afternoon sampling, get gear & bottles, load ATVs; check, double-check, & re-check the map for Site 9

8-23-01

1335 depart camp to Site 16
w/ Bill O'Connell

1345 arrive Site 16 soil sample
site #165
- dig surface debris away
from sample site

1355 collect soil sample
depth: 6" stainless steel spoon
parameters: PCB, Pb
primary: 01NE16SS165 + ms/msd
Pb only { duplicate: 01NE16SS265 (1400)
triplicate: 01NE16SS365 + ms/msd

1405 label turkey butt tag, place
turkey butt, photograph

1410 dig surface debris away from
soil sample site #166

1415 collect soil sample
depth: 6" stainless steel spoon
parameters: PCB, Pb
primary: 01NE16SS166
note: soil in both locations
sandy w/ gravel

1425 photograph, pack up, move to
Site 9

MYOn

8-23-01

1430 arrive Site 9, locate SW/SD
sampling locations

1445 set up at sample site #107
collect SW parameters

pH	temp°C	EC ums	turb NTU	HACH DO mg/L
7.62	7.1	46.4	1.83	11.0

1450 collect SW sample
depth: 3" teflon dipper
parameters: GRO, VOC, DRO, RRO,
~~SVOC~~ VOC, PAH, PCB, TAL metals
primary: 01NE09SW107 + ms/msd
duplicate: 01NE09SW207 (1455)
triplicate: 01NE09SW307 + VOC ms/msd

- no sheen or odor

1540 collect SD sample
depth = 6" SS spoon
parameters: DRO, PAH, RRO,
PCB, TAL metals, VOC
primary: 01NE09SD107
- black mud, lots of rotten
vegetation

1545 place stake, photograph,
pack up, move on

MYOn

Photo Log

Drilling Logs

Soil & GW SW/SD Forms Form

8-23-01
1550 arrive Site 9 SW/SD sample site 108
Collect SW parameters

pH	temp°C	EC uS	NTH turb	HACH DO mg/L
7.43	6.6	48.7	1.98	11.0+

1555 collect SW sample
depth 3"; teflon dipper
parameters: DRO, RRO, GRO, VOCs, PAH, PCB, TAL metals
primary: 01NE09SW108
no sheen or odor
1610 collect SD sample
depth mud 6"; SS spoon
parameters: DRO, RRO, VOC, PAH, PCB, TAL metals
primary: 01NE09SD108
- black silty mud w/ abundant rotten vegetation

1620 place stake, take photos, pack up & move to next site (109) while Bill goes back to camp to drop off samples w/ Eileen & pick up more bottles

VMAM

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8-23-01
1635 arrive SW/SD sample site # 109
1640 Collect SW parameters

pH	temp°C	cond uS	turb NTH	HACH DO mg/L
7.55	8.3	51.6	1.87	9.0

- pond full of metal debris & iron precipitate; abundant exposed debris along shoreline
- SW/SD sampling area is immediately downgradient from a seep draining from the refuse mass area

1650 Bill returns w/ sample bottles
1650 collect SW sample
depth: 3" teflon dipper
parameters: DRO, RRO, GRO, VOC, PAH, PCB, TAL metals
primary: 01NE09SW109
- no sheen or odor
- The COE folks arrived for a visit (Rich Jackson et. al.), took pictures, watched us sample, then left

VMAM

8-23-01
1705 collect sediment sample
depth: 6" SS spoon
parameters: VOC, DRO, RRO,
PAH, PCB, TAL metals
primary: 01NE09SD109
-debris in sediment
1715 place stake, photograph site,
pack up, head back to camp
1730 arrive at camp, give samples
to Eileen & Johanna, unload,
clean up & put away
instruments
1745 copy notes for Eileen,
break for dinner
1815 review site 9 SWSD sites,
choose sites for discretionary
sediment samples
1845 clean & stow equipment
2000 done for the day

Melissa L Markell
total hours: 12.0

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8-24-01
0700 Nugget safety meeting
0710 MWH safety meeting
0725 prep for Sites 9 & 21 sampling
while Bill fuels the ATVs
0815 depart camp w/ Bill O'Connell
0825 arrive Site 9 discretionary
sed. sample location
0830 collect sediment sample
depth: 6" SS spoon
parameters: DRO, RRO, PAH, PCB,
TAL metals, GRO, VOC, TOC
primary: 01NE09SD113 + MS/MSD
duplicate: 01NE09SD213 (0835)
triplicate: 01NE09SD313 + MS/MSD
-very peaty, no sheen or odor
0900 place stake, pack up,
photograph site, move on
0915 arrive sed sample location
114 (lots of metal debris, drums)
0920 collect sediment sample
depth: 6" SS Spoon
parameters: DRO, RRO, GRO, VOC,
PAH, PCB, TOC, TAL metals
primary: 01NE09SD114
-very peaty, no sheen or odor

MMM

8-24-01

0930 place stake, photograph, clean up, move to Site 21

0940 arrive Site 21, scope out surface soil/soil boring locations

0950 collect soil at location 171
surface soil depth: 6" hand auger
parameters: DRO, RRO, PCB, TAL metals, GRO, BTEX
primary: 01NE21SS171
- soil very peaty & rocky
- no odor

1020 collect soil from boring
depth: 18"* hand auger (* 18-24")
parameters: DRO, RRO, PCB, TAL metals, BTEX, GRO
primary: 01NE21SB171
- soil very gravelly, with peat, minor fines, very wet
- tough going with the hand auger because the rocks are so large

1030 place stake, photograph, move on

1040 arrive sample site 169

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8-24-01

1045 collect surface soil sample
depth: 6" hand auger core, SS spoon
parameters: DRO, RRO, GRO, BTEX, TAL metals, PCB
primary: 01NE21SS169 + MS/MSD
duplicate: 01NE21SS269 (1050)
triplicate: 01NE21SS369
- lots of peat, no gravel, no odor

1100 collect subsurface soil sample
depth: 18"-24" hand auger, SS spoon
parameters: DRO, RRO, GRO, BTEX, TAL metals, PCB
primary: 01NE21SB169
Silt w/ minor peat

1115 place stake, photograph, pack up, move on

1120 arrive sampling area 170

1125 collect surface soil sample
depth: 6" SS spoon
parameters: DRO, RRO, GRO, BTEX, TAL metals, PCB
primary: 01NE21SS170
- very peaty, minor gravel, tar (wood stave pipe sealant?)

see page 83

Photo Log

Soil/SW/SD Drilling Logs/ GW Forms Form

8-24-01

1130 place stake, photograph, pack gear, go back to camp

1145 arrive camp, give samples to Johanna, restock gloves, decon

1200 break for lunch

1230 copy notes for Johanna prep for afternoon sampling: load gear & bottles, check calibration on instruments

1320 leave camp for Site 21 with Bill O'Connell

1325 arrive site 21 pipe outfall, locate sampling sites

1340 collect surface soil at 173
depth: 6" ss spoon
parameters: DRO, RRO, PCB, TAL metals, BTEX, GRO
primary: 01NE21SS173
- peaty, no odor

1345 collect surface soil at 172
depth: 6" ss spoon
parameters: DRO, RRO, BTEX, GRO, PCB, TAL metals

8-24-01

1345 primary: 01NE21SS172
- rotted vegetation, very wet, black mud

1355 move to SW/SD site #114
collect SW parameters:

pH	temp°C	ECus	turb NTU	HACH DO mg/L
6.57	5.2	310.1	7.80	5.7

1405 collect SW sample
depth: ~~6~~ more 3" teflon dipper
parameters: GRO, DRO, RRO, PCB, TAL metals
primary: 01NE21SW114
- abundant iron-rich scum, no odor; organic sheen

1425 collect SD sample
depth: 6" ss spoon
parameters: GRO, DRO, RRO, PCB, TAL metals
primary: 01NE21SD114
- black mud, abundant rotten vegetation, no fuel odor

1440 pack up, place stake, move to SW/SD 113 site

Photo Log

Drilling Logs

Soil & GW Forms

SW/SD Form

8-24-01

1430 arrive SW/SD sample area 113, collect SW parameters

pH	temp °C	EC µS	turb NTU	DO (HACH) mg/L
6.47	5.6	260.0	7.79	6.9

1440 collect SW sample
depth: 3" teflon dipper
parameters: DRO, RRO, GRO, PCB, TAL metals
primary: 01NE21SW113 + ms/msd
(N45) duplicate: ~~triplicate~~ 01NE21SW213
triplicate: 01NE21SW313 + ms/msd
- organic sheen, no odor

1505 collect sed sample
depth: 6" SS spoon
parameters: DRO, RRO, GRO, PCB, TAL metals
- black, silty, organic-rich, no odor

1520 place stake, pack gear, photograph SW/SD 113 & 114, SS 172 & 173

1525 head back to camp to drop off samples

1530 arrive at camp, give samples to Johanna, prep for next site

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8-24-01

1600 depart for Site 30 (background location at West Tributary, location of 01NE30SD101)

1615 arrive at sample site

1620 collect surface water
~~primary~~ COE split: 01NE30SW401
depth: 3" teflon dipper
parameters: TBD by COE
- no sheen or odor

1630 collect sediment
depth: 6" SS spoon
parameters: TBD by COE
COE split: 01NE30SD401
- abundant rotted vegetation

1640 move 200 ft upgradient

1645 collect SW
depth: 3" teflon dipper
parameters: TBD by COE
COE split: 01NE30SW402
- no sheen or odor

1655 collect SD
depth: 6" SS spoon
parameters: TBD by COE
COE split: 01NE30SD402
- abundant rotted vegetation

Photo Log
Drilling Logs
Soil & SW/SD GW Forms Form

8-24-01

1700 pack up, go back to camp
1715 arrive camp, give samples to Johanna, go to site 30 SS-101 sample site (end of runway)
1725 collect SS sample
depth: 6" SS spoon
parameters: DRO, RRO, PAH, TAL metals
primary: 01NE30SS101
TAL metals only { duplicate: 01NE30SS201 (1770)
triplicate: 01NE30SS301
- silty soil w/ roots
1735 photograph, stake, go back to camp
1740 give samples to Johanna, put away gear
1745 break for dinner
1815 assist Johanna with cooler packing
2000 done for the day!

Melissa L Markell
total hours: 12.0

8-25-01

0700 Nugget Safety meeting
0725 MWH Safety meeting
0740 prep for measuring water quality parameters at the well points, load equipment
0930 head out to Sites 3 & 4
0940 arrive Site 3, set up to measure H_2O depth & well point depth, collect water quality parameters (see table pages 76-77)
0950 begin collecting data
- 03WP102 water extremely silty; bailed WP dry to get enough water volume to measure parameters
- turbidity & DO not readable (NR) because water too silty
1015 measure WP & H_2O depth at 03WP103 & 104
- well points need to go deeper; Bonnie called Doug to have him bring the jackhammer; will start over after WPs driven deeper

mfm

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8-25-01 — YSI model 33

time	location	WP depth (ft bgs)	H_2O depth (ft bgs)	pH	temp °C	EC uMHOS	turbidity NTU	HACH DO mg/L
0950	03WP102	2.93	1.48	6.5	7.1	212	NR	NR
1015	03WP103	2.84	0.2					
1025	03WP104	2.93	1.67					

* NR = not readable, BD = bailed dry

Starting over...

time	location	WP depth (ft btoc)	H_2O depth (ft btoc)	pH	temp °C	EC uMHOS	turbidity NTU	HACH DO mg/L	comments*
1130	03WP103	see Bonnie's notebook		6.5	6.5	145	NR	NR	silty
1145	03WP104			6.4	5.2	150	NR	NR	silty
1200	– break for lunch			–	–	–	–	–	–
1230	– resume sampling			–	–	–	–	–	–
1330	04WP103			6.2	5.0	195	NR	NR	very silty!
1340	04WP104			6.1	5.0	175	NR	NR	very silty!
1350	04WP102			6.2	2.0	165	NR	NR	
1420	WP30-1	3.10	1.28	6.7	3.5	85	NR	NR	Nitrate: NR; BD

1430 assist Bonnie with filling bottles at Site 4 & Site 30
1500 feeling sick; taking a couple hours off
1900 update sample count list for monitoring well sampling planned for September
1930 move computer & printer

WMM

1945 clean & prep instruments for tomorrow
2000 assist Johanna with sample packaging
2030 done for the day

Melissa Markell

total hours: 9.0

Photo Log | Drilling Logs | Soil & GW Forms | SW/SD Form

8-26-01

0700 Nugget Safety meeting
0705 MWH Safety meeting
0715 prep for well point water level survey, staking boundaries at Site 7 landfill
0755 depart camp
0805 arrive Site 9 WP-2
depth to H_2O from TOC = 3.34 ft
wp depth from TOC = 6.37 ft
0810 Site 9 WP-3
H_2O depth below TOC: 4.74 ft
wp depth below TOC: 6.23 ft
0820 Site 9 MW-9-2 (SE edge of pond)
H_2O depth below top steel casing: 5.66 ft
Well depth below top steel casing: 11.47 ft
- bottom very soft, material on sounder creamy, no grit: soft bottom must be bentonite in the well

0835 Site 9 MW9-3
H_2O depth below top steel casing: 4.29 ft
Well depth below top steel casing: 9.94 ft
- bottom very soft; material mostly creamy w/ some grit: bentonite + silt

MYLM

8-26-01

0855 arrive background well point WP30-2
H_2O depth below toc: 4.93 ft
wp depth below toc: 6.20 ft
0910 arrive Site 7 WP-1
H_2O depth below toc: 3.25 ft
wp depth below toc: 6.22 ft
0920 Site 7 WP-2
H_2O depth below toc: 9.13 ft
wp depth below toc: 9.33 ft
0925 Site 7 WP-3
H_2O depth below toc: ~~3.25~~ MYLM 2.59 ft
wp depth below toc: 6.16 ft
0930 arrive Site 6 WP-3
H_2O depth below toc: 4.42 ft
wp depth below toc: 9.35 ft
0940 go back to site 9, drop off water level meter, pick up water quality parameter instruments from Bill
0955 back to camp for more gloves, bailers, decon supplies
1030 arrive site 30 background well point WP-2

MYLM

Photo Log
Drilling Logs
Soil & GW Forms
SW/SD Form

8-26-01

1035 collect parameters
pH:
cond:
temp:
turbidity: no data
DO:
Nitrate:

1045 unable to collect parameters
- only a few inches of water in WP
- water extremely silty
- WP bailed dry very quickly

1050 arrive Site 6 WP-3
collect parameters
pH: 6.2
cond: 131 uMHOS
temp: 5.9°C
turbidity: 190 NTU
DO: 10.2 mg/L

1105 Site 6 WP-2
collect parameters
pH: 6.6 turb: 1000+ NTU
cond: 125 DO: 8.2 mg/L
temp: 5.5°C

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8-26-01

1125 arrive Site 6 SS11 (SW-116)
collect SW parameters
pH: 6.9
temp: 8.8°C
cond: 80 uMHOS
turbidity: 7.30 NTU
DO: 11.0+ mg/L

1145 back to camp, throw away trash, reorganize gear, make inventory list of well points sampled & parameters measured

1200 break for lunch

1230 pack up gear, clean up room, prep for flight out this afternoon

1330 go to site 7 & stake landfill boundary for surveyor

1400 go to site 9, pick up water quality parameter equipment from Bill

1415 head back to site 7

1425 arrive Site 7 WP 7-3
collect parameters

8-26-01

1425 WP 7-3
pH: 6.9
temp: 6.8 °C
cond: 82 uMHOS
- DO & turbidity not readable (water extremely silty)

1440 Site 7 WP 7-2
- cannot collect parameters because < 2" of water in the wp; moving on to WP 7-1

1445 Site 7 WP 7-1
pH: 6.7
temp: 6.0 °C
cond: 71 uMHOS
- DO & turbidity unreadable because water too silty

1500 back at camp, put away gear, pack up last of personal stuff,
1530 to the plane
1545 on the way to Nome
2330 arrive Anchorage (Finally!)

Melissa Markell
total hours: 16

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~~8-26-01~~ uMHOS (8-24-01)
collection of subsurface soil sample 01NE21SB170 at Site 21 was not recorded in the field notebook at the time of collection (see page 69)
time of collection: 1130
depth: 18-24"
method: hand auger core
parameters: DRO, RRO, GRO, BTEX, PCB, TAL metals
sample type & ID: primary 01NE21SB170
description: peaty, minor gravel, tar (wood stave pipe sealant?)
Melissa L Markell 8/28/01

Pages 84-143 are blank.

1850574.260120 USACOE Northeast Cape

Photo Log

Photo Log

camera/ roll #	frame	date	direction facing	subject
digital	1 & 2	8/16	E	CS-1
	3		S	CS-1A
	4		S	-1B
	5		S	-1C
	6		S	-1D
	7		S	-1E
	8		W	CS-1
	9		SE	Doug collecting SW at CS-1A
	10,11		E	CS-2
	12		S	CS-2A
	13		S	-2B
	14		S	-2C
	15		S	-2D
	16		S	-2E
	17		W	CS-2
	18		NW	CS-2 & CS-1
	19		E	Doug collecting SD at CS-2A 2nd sample
	20,21		E	CS-3
	22		S	CS-3A
	23		S	-3B
	24		S	-3C
	25		S	-3D
	26		S	-3E
	27,28		W	CS-3 & CS-2

8-18-01
will discontinue photo log as Doug Quist is keeping track of photos; he will download digital camera and label photos daily

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Photo Log

camera/ roll #	frame	date	direction facing	subject
na				Media Upload

1850574.260120 USACOE Northeast Cape

Photo Log

Photo Log

Drilling Logs
Soil & SW/SD
GW Forms Form

1850574.260120 USACOE Northeast Cape

example forms

mgm

LOG OF DRILLING OPERATIONS

Project Number:	Boring Number	Sheet
1850574.260120		1 of

Project: NEC 2001 Phase III RI Site 36 Client USAED - Alaska

Start Date: Finish Date Geologist

Drilling Company: Discovery Drilling Drilling Method Rig Type

Boring Size: (in) Total Depth (ft) Depth to First Water (ft) Depth to SWL (ft)

Sampler Type: Diameter: (in) Hammer Drop (in) Hammer Weight (lbs)

AK State Plane Coordinates: Northing (ft) Easting (ft) Top of Hole Elevation (ft) Elevation Datum

Depth (ft bgs)	Time	Sample Interval	Blows/6 in	PID (ppm)	% Gravel	% Sand	% Fines	Max Size (in)	Lithologic Description/ Drilling Remarks	Soil Class	Graphic Log	Well Specifics
0									SPUD			PVC Casing Depth (ft bgs): Top of PVC to top of flush mount (ft):
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

1850574.260120 USACOE Northeast Cape

example forms

mgm

LOG OF DRILLING OPERATIONS

Project Number:	Boring Number:	Sheet
1850574.260120		2 of

Project NEC 2001 Phase III RI Site 36 Client USAED

Depth (ft bgs)	Time	Sample Interval	Blows/6 in	PID (ppm)	% Gravel	% Sand	% Fines	Max Size (in)	Lithologic Description/ Drilling Remarks	Soil Class	Graphic Log	Well Specifics
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
41												
42												
43												

Drilling Logs Soil + SW/SD GW Forms Form

1850574.260120 USACOE Northeast Cape

150

example forms

SOIL SAMPLING FIELD NOTE FORM	Project Number: 1850574.260120	Sample Location:

Project: Northeast Cape 2001 Phase III RI	MAP
Site:	
Client: United States Army Engineer District – Alaska	

FIELD INFORMATION	
Date:	Sampler(s):
Sampling Equipment:	

SAMPLE INFORMATION				
Time:	Depth Interval:		ft PID:	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd
Time:	Depth Interval:		ft PID:	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd
Time:	Depth Interval:		ft PID:	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd
Time:	Depth Interval:		ft PID:	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd
Time:	Depth Interval:		ft PID:	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd
Time:	Depth Interval:		ft PID:	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd
Time:	Depth Interval:		ft PID:	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd
Time:	Depth Interval:		ft PID:	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd
Analyses: DRO RRO GRO BTEX VOC PAH PCB Pest. TALmetal Pb Zn Cr TOC Geotech				

1850574.260120 USACOE Northeast Cape

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example forms

GROUNDWATER SAMPLING FIELD NOTE FORM	Project Number: 1850574.260120	Well ID:

Project: NEC 2001 Phase III RI		Client: USAED
Date:	Time:	Sampler(s):
Well type: Monitoring Well Well Point Other:		
Well condition:		
Protective casing height (ft ags):		Minimum purge volume calculation:
PVC casing height (ft ags):		One well volume (gal) = 0.163A(B/2)² = C
Well depth below top of PVC (ft):		Minimum purge volume = C x 3
Water level below top of PVC (ft):		Calculation:
Water column height (ft):	= A	
PVC casing ID (in):	= B	
Purging Method/Equipment:		
Sheen: none slight moderate abundant		Odor: none slight moderate strong

Gallons	Time	Temperature °C	pH pH units	Conductivity umhos/cm	Comments

Time:	Sample ID: Ø1NE _____ primary dup triplicate ms/msd
Time:	Sample ID: Ø1NE _____ primary dup triplicate ms/msd
Time:	Sample ID: Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time:					
Time:					
Time:					
Laboratory Tests:	DRO RRO GRO BTEX Alkalinity Sulfate Methane/Ethane/Ethene				

Soil + SW/SD GW Forms Form

1850574.260120 USACOE Northeast Cape

example forms

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location:	Page 1 of
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date:	**Sampler(s):**		

SURFACE WATER SAMPLE INFORMATION			
Stream Name:	**Depth:** ft	**Width:** ft	
Appearance:			
Cross-Section Number/Location (if applicable):			
Collection method: Disposable Teflon dipper	**Temp. ° C:**	**Cond. (umhos/cm):**	
	pH:	**CS Collection Point:**	
Sheen: none slight moderate abundant	**Odor:** none slight moderate strong		
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd	
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd	
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd	
Laboratory Tests: DRO RRO GRO BTEX VOC SVOC PAH PCB TAL metals			

SEDIMENT SAMPLE INFORMATION			
Collection method:			
Cross-Section Number/Location (if applicable):			
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Laboratory Tests: DRO RRO GRO BTEX VOC PAH PCB Pesticides TAL metals Pb Zn Cr TOC Geotech			

1850574.260120 USACOE Northeast Cape

example forms

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	CS #:	Page 2 of 2
Project: NEC 2001 Phase III RI	**Client:** USAED		
Date:	**Sampler(s):**		
Stream Name:			
Appearance:			
Survey/Measurement Equipment:			

Site Sketch (Plan View):

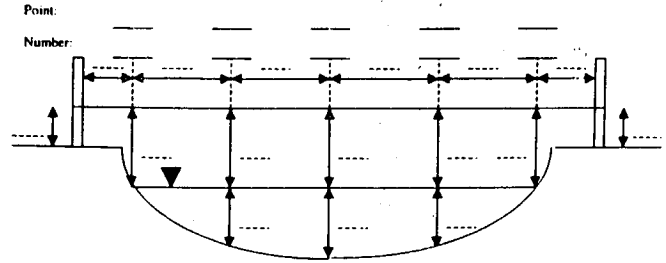
N

Cross-Section Sketch:

W E

Point:

Number:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

EOJ attchd

Form 2 Geo 1/02

SW/SD Form

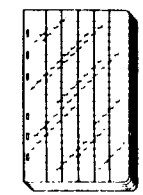
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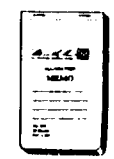

BOUND BOOKS


NOTEBOOKS

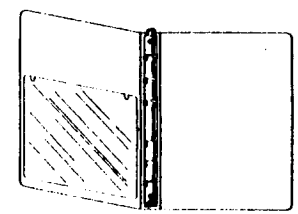

SPIRAL NOTEBOOKS

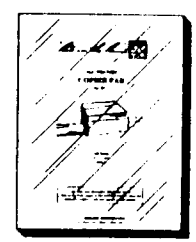

LOOSE LEAF SHEETS

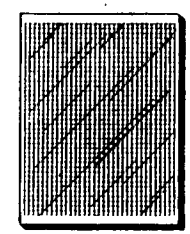

SPIRALS

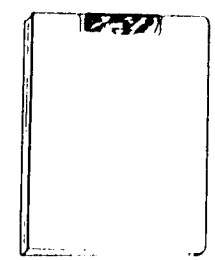

MEMO BOOKS


ALL-WEATHER PEN


RING BINDERS


COPIER PAPERS

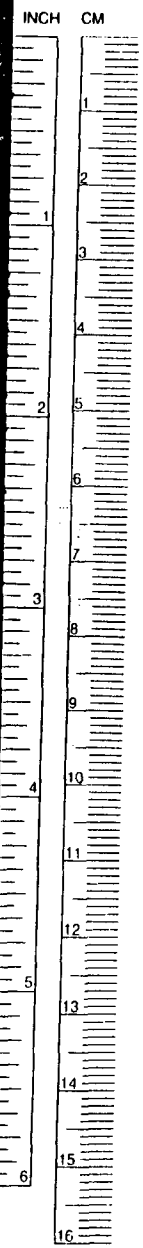

GRID SHEETS


POLY-CLIPBOARDS

Field data . . . if it's worth collecting, it's worth protecting.

12 5

MADE IN USA



MEASUREMENT CONVERSIONS

IF YOU KNOW	MULTIPLY BY	TO FIND
LENGTH		
inches	2.540	centimeters
feet	30.480	centimeters
yards	0.914	meters
miles	1.609	kilometers
millimeters	0.039	inches
centimeters	0.393	inches
meters	3.280	feet
meters	1.093	yards
kilometers	0.621	miles
WEIGHT		
ounces	28.350	grams
pounds	0.453	kilograms
grams	0.035	ounces
kilograms	2.204	pounds
VOLUME		
fluid ounces	29.573	milliliters
pints	0.473	liters
quarts	0.946	liters
gallons (U.S.)	3.785	liters
milliliters	0.033	fluid ounces
liters	1.056	quarts
liters	0.264	gallons (U.S.)
TEMPERATURE		

°C = (°F - 32) x .555
°F = (°C x 1.8) + 32

Inches	Decimals of foot	Milli-meters
1/16	.0052	1.5875
1/8	.0104	3.1750
3/16	.0156	4.7625
1/4	.0208	6.3500
5/16	.0260	7.9350
3/8	.0313	9.5250
1/2	.0417	12.700
5/8	.0521	15.875
3/4	.0625	19.050
7/8	.0729	22.225
1"	.0833	25.400
2"	.1667	50.800
3"	.2500	76.200
4"	.3333	101.60
5"	.4167	127.00
6"	.5000	152.40
7"	.5833	177.80
8"	.6667	203.20
9"	.7500	228.60
10"	.8333	254.00
11"	.9167	279.40
1 foot	1.0000	304.80

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1850574.260120

A

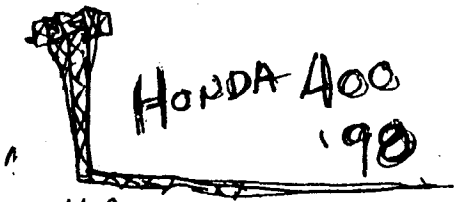
Name Bonnie McLoan
(907) 266-1141
Address
Trip 1 7-23 → 7-26-2001
Phone Plants & Drinking
WATER wells
Project Trip 2 8-17 → 8-29-01
~~Trip~~
Base sampling
Trip 3 - mud/SB
Berries

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Nome
443-5619 Kevin
ANC
279-9478

	Monsum's	
	443-2151	

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6866442

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770-2559 FAX
Bowing air 1-800-478 5422
FAX 443 5919
AK Nome cargo 443-2243

Lisa 753-5742
Rick 753-5606

GCPRI
Nome Cong
443 2711

1800 950 1077
0 907 435 1525
9264
Dis cargo 344-6[illegible]231
FAX 911 9556
11341 Olive Ln FAK

Nome 443-5619 (Honda parts)
Kevin

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1850574.260120 Bgm

0730 @ fox
0805 @ AIA
Flight delayed
1110 leave ANC
240 arrive Nome
305 leave Nom-Beringer
Nugget Air charter

400 Arrive NEC -
440 Safety briefing -
Stage equipmt Rm 17
1910 Sent 1 ATV Miriam Taalia
1930 on-site - 35 & 28
2030 Prep bottle sets
Eugene says well 62' bgs
Pumps are still in wells

USArmy Jan 63 map
have wells ID.

Bgm

During [illegible] wells ID
NEC 7-23-01 (35-3) N
(Dry)
35-2
(30 gpm)
(35-1)
(10 gpm)
35-4
40GPM
per (USARMY MASTER plan 1 Jan 63)

Called Melissa to confirm well ID for WP figure. Left message

Talked w Marie & Miriam on plant ID trip Tuesday.

Missing one gpm/bbk tote with water level meters (2) called Fleming air, they will ck with NAC.
2010 End day Bgm

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1850574.260120

7-24-01
0700 Safety Meeting Completed. w/ Nugget
ATV #1
ATV #2
830-930 - WINDY OVERCAST 40°F
Nugget pulled well pump from #2.
945 7" steel casing
22.45' btc
44.2' Total Depth
Casing flush to Bldg. floor
well vol = 20 gal
All meters cal. in field:
1. pH/redox Beckman 11 #2 4 & 7 STD.
2. YSI 30 S-C-T
3. EC STD. 1413 m/n = 1420
4. Temp 17°C = 17°C
5. Turb. - HACH 2100P - 52 NTU=52.3
6. DO - HACH

BgM

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1850574.260120 BgM

7-24-01
WELL 2 35-2 Purging

GAL. Vol.	pH *	EC uS	Temp °C	Turb. NTU	pump Time
20.0	6.45	1420	3.2	167	1030
40.	6.74	110.6	2.9	166	1040
80	6.80	109.1	2.9	108	1055
120	6.79	106.3	3.0	106	1110

ID sample - 01 NE 35 GW 102
@ 1100 DRO/RRO, GRO/BTEX
+ NATURAL Attend.
Trip Blank 7-24-01 @ 1200
ID. 01 NE 35 TB 101
for gro/Betx - Sample results
DO = 8.2 mg/l
redox = -000.8 mV @ 25°C Teflon
* TC to 25°C; Betx/Gro w/ bailer
START observations - pump in top 5'
Slight intermittent sheen
NO odor. Betx/Gro w/ Teflon bailer
Purge WATER to carbon filter -
Dis. metals filtered .45 micron
Shipped VIA Bering Air to NOM
PK. AIR.

BgM

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1850574.260120

7-24-01
FAX Copy Corps
01 NEC 01
& airbill 1720 4445

to LAB & Arc. (Eileen)

Bgm

Bgm

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Northeast Cape, St.. Lawrence Is.
1850574.260120 Bgm 7-24-01

1130 Well #1 ↑N



Pump in top 5' water.
▽ 30.1' btc -
1.85' Stick-up, bgs
60.05' btc Total depth
5" Dia.

Vol = 24 gal. - plane on-site.

Time	pH	Temp °C	EC us/l	Turb.	GAL. Vol.
1700	5.51	4.2	148.1	61.5	5
1855	5.42	4.3	157.0	42.7	15
1905	5.54	3.4	160.6	41.3	25
1920	5.82	3.5	190.8	57.3	50
1940	5.95	3.2	217.4	123.	75

STOPPED because of battery trouble.

later:
When pump pulled ice
level (2") was at ▽.
per Charlie (Nugget).
Bgm
See pg 17 for sampling.

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1850574.260120

1135 Herman Tooley, George Noongwook (coordinator) arrive from Savoonga.
Herman will identify plants the reindeer herd might eat in the drainage basin. There are est. 6,000 head on the island.

We went to site 11 and walked the basin. Stakes were placed at each plant Herman identified.
We will return to sample at a later time.
See notes Pg. 9 - Reindeer plants.
Pg 10 - human

Plants,

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120 7-24-01

1230
Reindeer Plants
ID-T w/ Herman Tooley

(1) ID - white lichen
fuzzy
"Mulch" - name for all lichen
(2) yellow lichen,
(3) like straw - white (same as #11)
(4) low brush - leaves (same as #12) - early spring
"Qugangq-g"
(5) black, lichen
Winter "MESAK"
(6) moss - green, summer
(7) flowers - blue
(8) moss, bright green
(9) MOSS (same as #6)
(10) Flowers, all types
(11) straw like, white, same as 3

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1850574.260120 Bgm 7-24-01

rein deer plants (cont.)
lower elb
(12) low brush (same as #4)

Hermanson Brennan Supt
NEC for SHV @
1515.

The plants ID (X) will
be cross referenced to
PT-X when placed in
field. LAB ID will
be reference to this
field ID

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1850574.260120 Bgm 7-24-01

Human edible native plants
Marie Tadlie, translator Miriam Tadlie

(1) legs, brush "NUNGUGLIQAQS" green, woody stems

(2) black berries, NO berries now
in sept should be ripe

(3) juicy
juffy flowers on
on very low brush

(4) small cactus like, plant
"Kitmmik"

(5) sm. black berries,
"KAVIAK", late Aug.

(6) "greens"
"NUNIVAK"

(7) Salmon berries, late Aug.
AQAVZIK

(8) bushe
ANGUKAQ - leaves
by lake.

Bgm

USACOE
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1850574.260120

7-24-01

(9) spinach like leafy w/ red veins
Allgeggkag - leaf leaves cooked
red stalks juice
brn. red flowers
NAPAZIO . black
(by side road)
This plant does not grow on chemical cage spot.
We would locate in gravel

Main camp Miriam leave site 1630.

Return to well #1.
See pg 7.

1730 to camp
1900 to well #1
2000 pack up bottles for 7-25-01.

BGM

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1850574.260120

BGM

7-24-01



Well #3
7" DIA.
28.25' Btc
43.22' Btc Depth Total

1.84' stickup
Dedicated pump (purging) placed in casing

Info only.

Done

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1850574.260120

7-24-01

Drinking Well #4
25.65'
57.85' Depth total
8" Dia
1.10' above floor

~~Former containment Dump~~

Former Pump House Bldg.

Deviate purging pump placed on well.

INFO only

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

7-24-01

Well samples Well #1 #3 & #4 7-25-01
Pick plant samples Call Bering air for Charter out 7/26/01
Time to be determined

2030 Winds slacked back outside down in light side top head while planing trash under tarp.

2150 End Day

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

7-25-01

BJM

0700 Safety meeting by Nugget- completed Prepare equipment - Calib. WQ meters

	STD	READ
pH	4 7	STD
Turb	52.	52.4
Temp	21.5	21.5
EC	1413	1428

Prepare sample bottles

DX Well #1

0815 @ Well #1 - Pump failed - set up water shaw well out pump Purged 30 gals. Sampled Well #1 No sheen observed. No odor observed.

BJM

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BJM Well 1
7-25-01

Vol	pH	Temp	EC	Turb	Time
(Comp. 1)					
30	5.92	2.5	132.5	67	920
10 L+	5.89	2.3	128.1	58.5	1000

Parameter — Time

ID: 01NE35GW101 @1000
Cafe 01DEC04
Trip Blank 01DE35TB102 @1215
QA- Cafe 01DEC02
ID: 01NE35GW201 @1010
Dis/Rad, Gro/Betx
QC Cafe 01DEC04
ID: 01DE35GW301 @1015
Dis/Rad Gro/Betx
QA Dist Trip Blank (4-40ml)
01NE35TB302 (Gro/Betx) @1200

DO 5.8 mg/L
Redox -030.8 mV
Gro/Betx Sampled w/ Teflon disposable Bailer
All parameters sampled w/ disposable teflon bailer

BJM

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Call Lisa Gaudett - USFWS
Ref. Plant Sample Set
Trace ID 24 types:
Rhendeer - 10 Berries 3
Purple - 5 Grass - 3
(2 - may of these may not be located) Bkg - 3

One is near bathhouse and Rhendeer (Limited to dear)
Grass - 3 (Same type (diff loc.))
Bkg - 3 lichen (R)
(S. Road, up Squi R.) dark brown (R,P)
green (P)

Berries - 3
To be gathered in Aug or Sept

Total	24
PPAG (NTP)	3
NTP ([redacted])	12
PPAG Needed	9

NTP
SCW
Approved.
BGM

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7-25-01

Started Set-up of Plant Sampling - will work from Squi R. to Main Site (5)

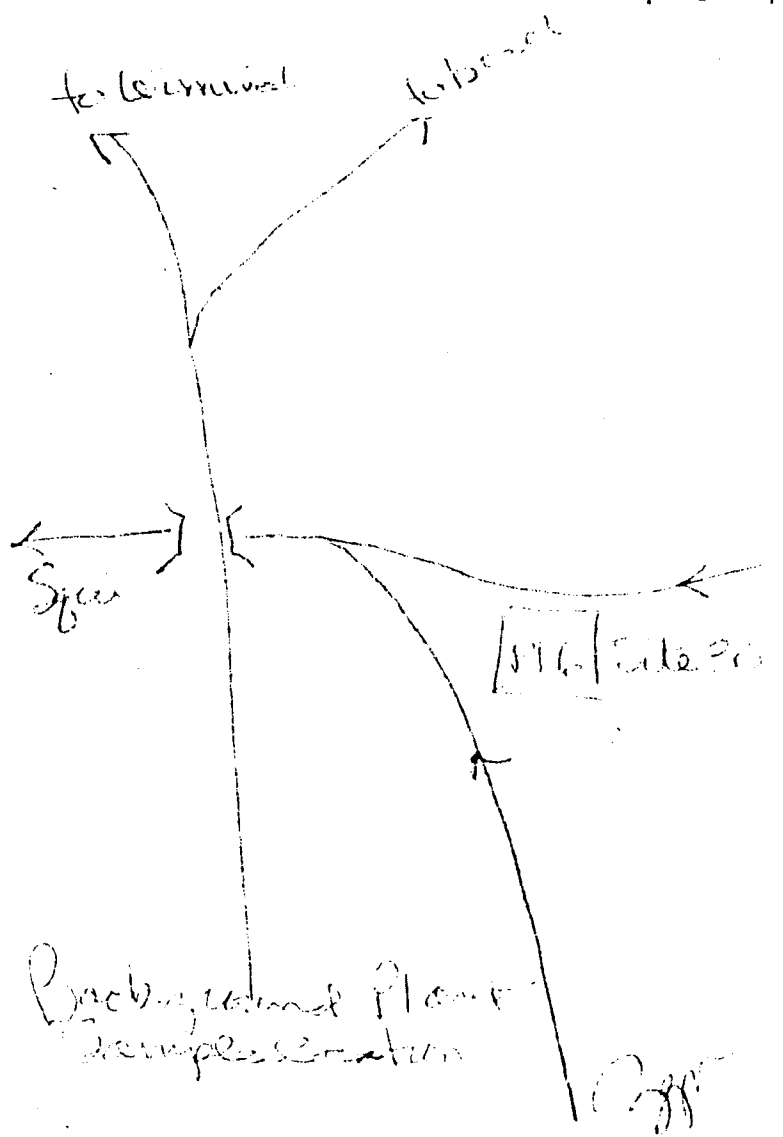
Five primary areas identified
PT-1 near intersection of Squi R. & outlet of DP
Moving S. - PT-5 is below Site 11 the former fuel tanks,
PT-6 is the background sampling location
5 is road near Squi R & 4 feet from drainage (travelling the main road.

Setup week 3 to purge

BGM

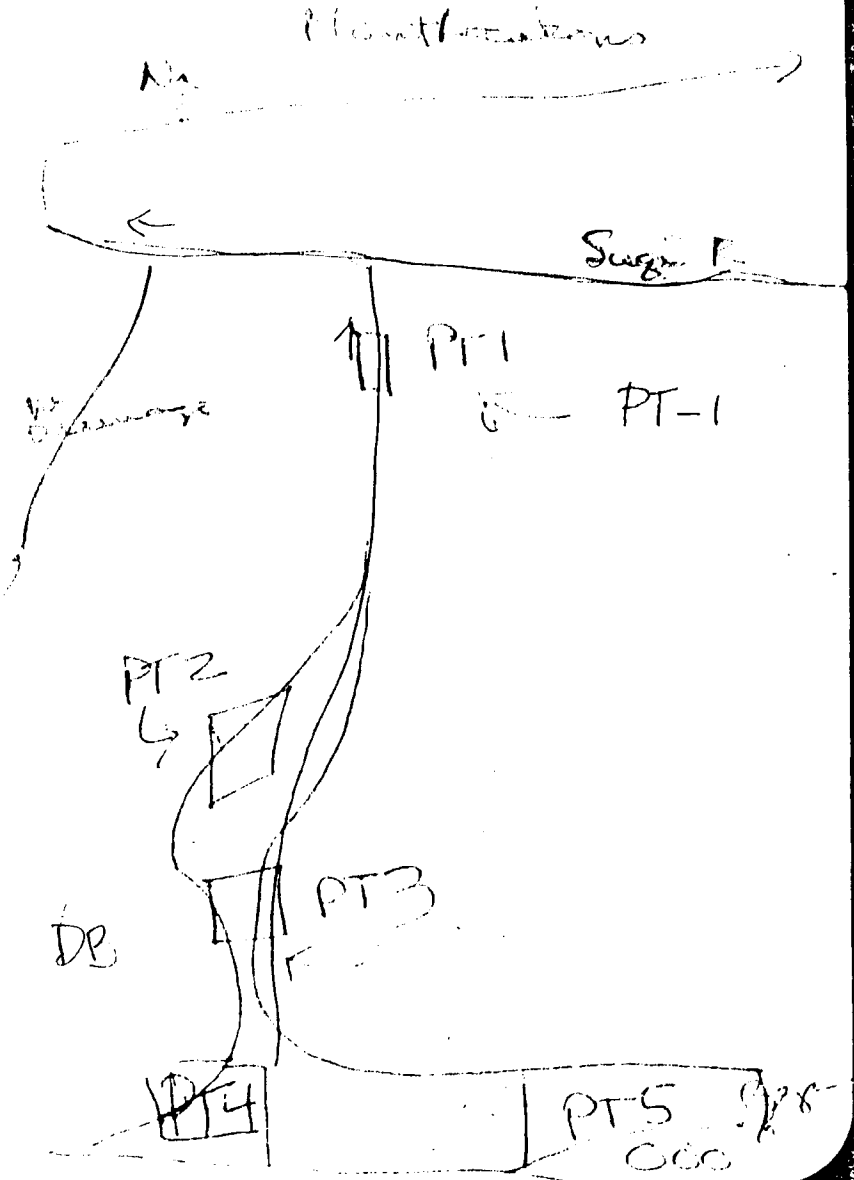
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Plant (Field ID) Collected

Ref.	Riendeer	Loc
1.	lichen, white	PT 5
2.	lichen, yellow	PT 3
3.	lichen, sliawlike	PT 3
4.	low bush	PT 5
5	moss, green	PT 1
6.	moss, bright green	PT 4
7.	Flowers, pink	PT 2
8	Flowers, blue	PT 3
9.	Flowers, yellow	PT 5
10.	lichen, black	PT 5

Stakes naked

loc — Ref.
PT 5 — 1 (lichen white)
PT 3 — 2 (lichen yellow)

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Ref.	Purple	Loc
11.	fluffy flowers	
12.	greens	
13.	cat-tail like	PT 5
—	low bush ~~samaad~~	
14	fireweed flowers	
15	spiny like, reed stakes	

(14 & 15 ABT found on Site 28)

Grasses

16	Rye	PT 1
17	Rye	PT 3
18	Rye	PT 4

Back ground PT 6

19	lichen, white
20	low bush
21	greens

Berries (Aug - Sept)

22.	Blueberries
23.	crowberries
24.	Salmonberries

Bag

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7-25-01

Crew #3 Sample ID
01 NE 35 GW 103
Very Buggy - Pump pulled
7/24/01 - cloudy = Sleet 7° C in.
covered during pump pull
25.57 gal / Va (See pg 13 ☰)
7/25 V= 25.25 D.T 43.22

Time	Vol	Temp °C	Sc (mS/)	pH	Turb
1205	5	2.5	540	7.71	60.5
1245	60	2.7	541	7.78	70.2
1402	120	2.8	511	7.67	84.1
1700 *	130	2.7	510	7.61	58.8

Stout ** @ C25 **
Mist Rain on + off clearing
at sample: DO 9.7 mg/L
Sampled w/ teflon bailer, dup.
D22/R22, Sea/Bet*, metals - rgt atten.
Trip Blank 01 NE 35 TB102 7/25 @ 1700
Sea/Bet* - Radon - 4E.3 nV
metals filtered w/ .45 m/c disposable
Equipment decon 7/25/01
Crew 01 NE 04
Prepare for shipment
2245 End day.

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Monday
7-26-01
[illegible] Completed
[illegible]
Decontamination of Equipment.
pH 4 = Hi 4.01 = 4.00
pH 7 = Hi 7.01 = 7.00
pH 10 = Hi 10.01 = 10.00
Temp 21° = 21° Ambient
Time Hardness 52 ppm = 52.4 mg/L
Dr. Check Probe Zero = Zero

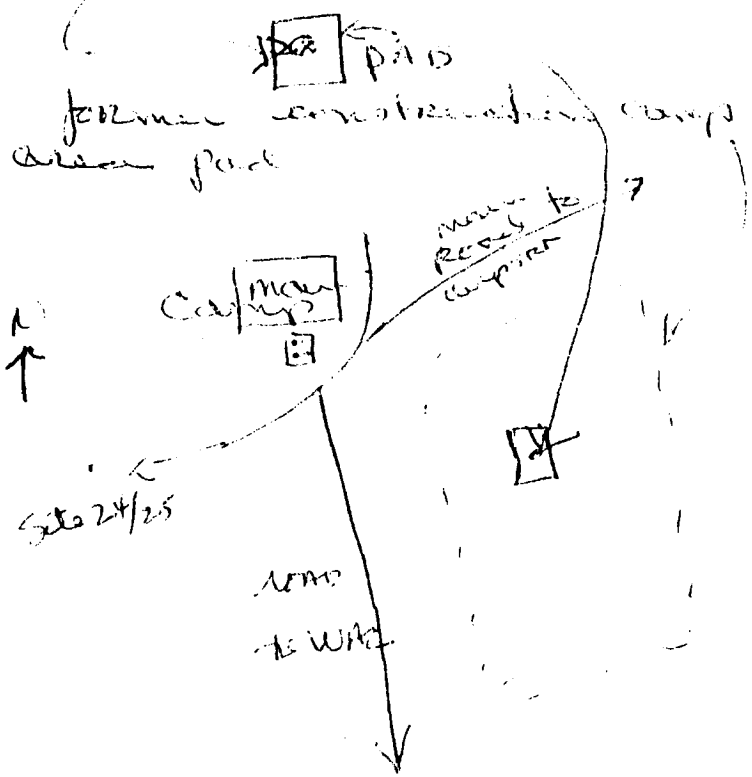
Prepare bottles for
[illegible]

decontaminate tubs filtered
w/ Geopump w/ .45 m/c
filter (new)

Equipment decon 7/26/01
Each cooler has
decontaminated pumps.
Pump will be transported Air
for clean-

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7-26-01

Wood tip location



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7-26-01

745 start purging at Wood tip — Sampled ID. 01 NE 35 GW 104 @ 9 Amm Dr/Bro, Gr/Blk, Natural DTW Dissolved metals filtered 0.45 Micron
▽ = 25.65' ▽ T 57.85' Stickup 1.10'
Pump pulled 7/24/01 by Nugget, to be decommissioned by Nugget Casing 8 in. dia. steel

Time	Purge Vol	Temp. °C	Ec umhos	pH Temp	Turb 61° NTU
800	10	3.4	474	7.56	36.8
820	50	2.2	462	7.51	5
840	100	2.4	473	8.07	52.2
900	150	1.7	432	7.85	56.1

DO. 8.2 mg/L
redox -51.1 mV
Water clear — No sheen, No odor
Pump set top 5' Water sample w/ Dsp-teflon bailer
Sent to lab Cafe 01 NE CC 4.

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7-26-01
Brief Review of plants for Vouchers.

(3) White strand lichen only 12 gr. -- picked all the thalli was available -- PTB

Call Lynn concerning amt. of plant samples of lichen
Lynn called back -- recovery OK for plants

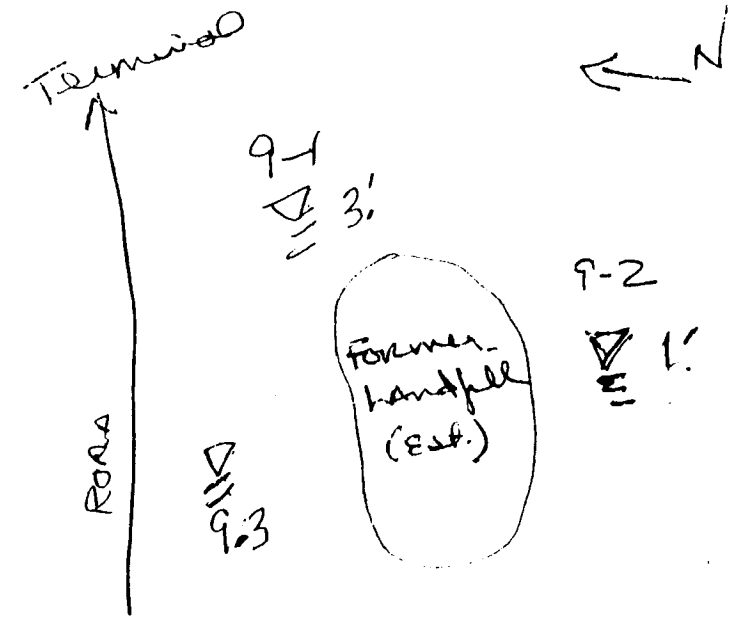
Prep used samples (plants to take back as checked bags.

Prepare Water Samples for Shipping
Primary 4 coolers
QA 1 coolers
To be sent Overland from Nome

BJM

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7-26-01
Site 9 - Previous MW observations & conditions.



9-3 PVC Jack 1.3' seal tight
9-1 PVC Jack 3' seal broken
9-2 PVC Jack 1' seal tight

BJM

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7-26-01
Packed Equipment
Stay on site
Return to ANC
Everything Set to Run

1510 Begin rig up ANC
Rig up
2 - Fastec chamber
w/ controls
2 - MWA
w/ controls (5 pc)
cargo tank (8 pc)
baggage (7 pc)

1615 - @ ANC
@ AK HER
Left ANC Cargo
Set up Instruments

ARI 1720 4423 (4 pc)
Sound 1720 4503 (1 pc)
1715 Check in flight @ 2055
2200 arrive ANC

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Info Only

Plant ID
01 thru 22 PT X YZZ

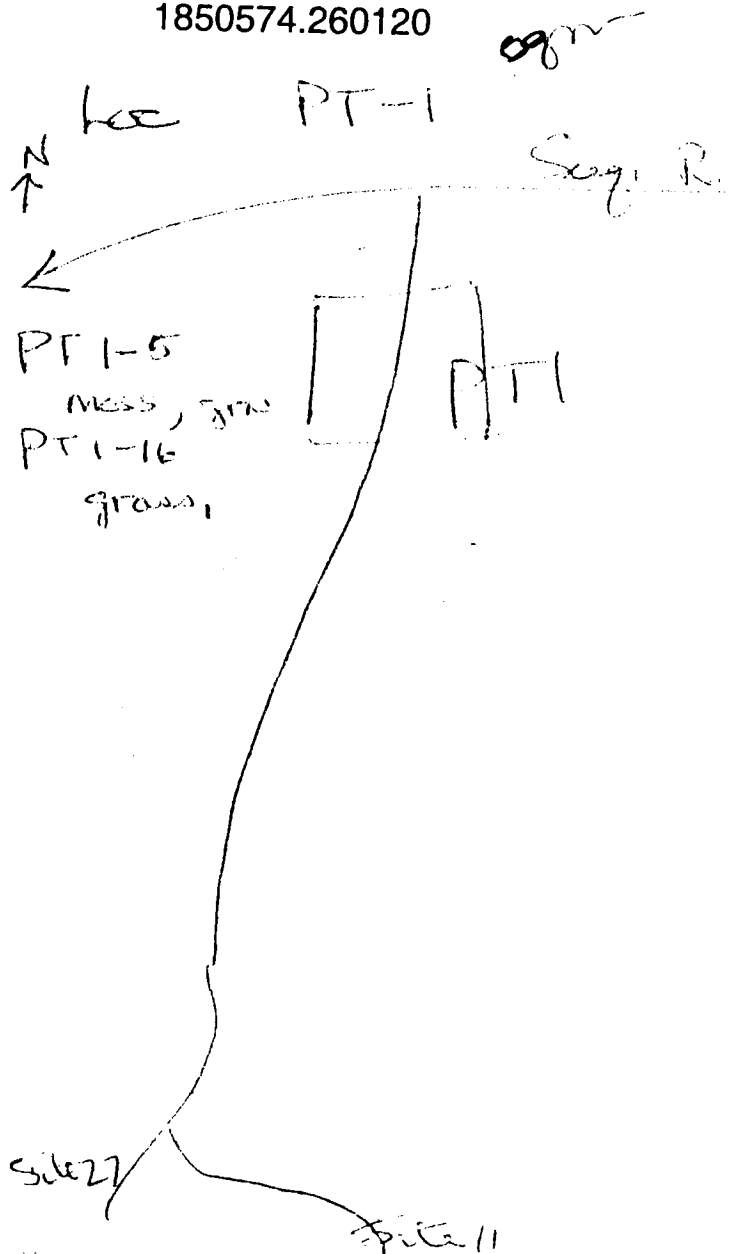
Sample loc (1-6)

Plum 1
Grt
4c

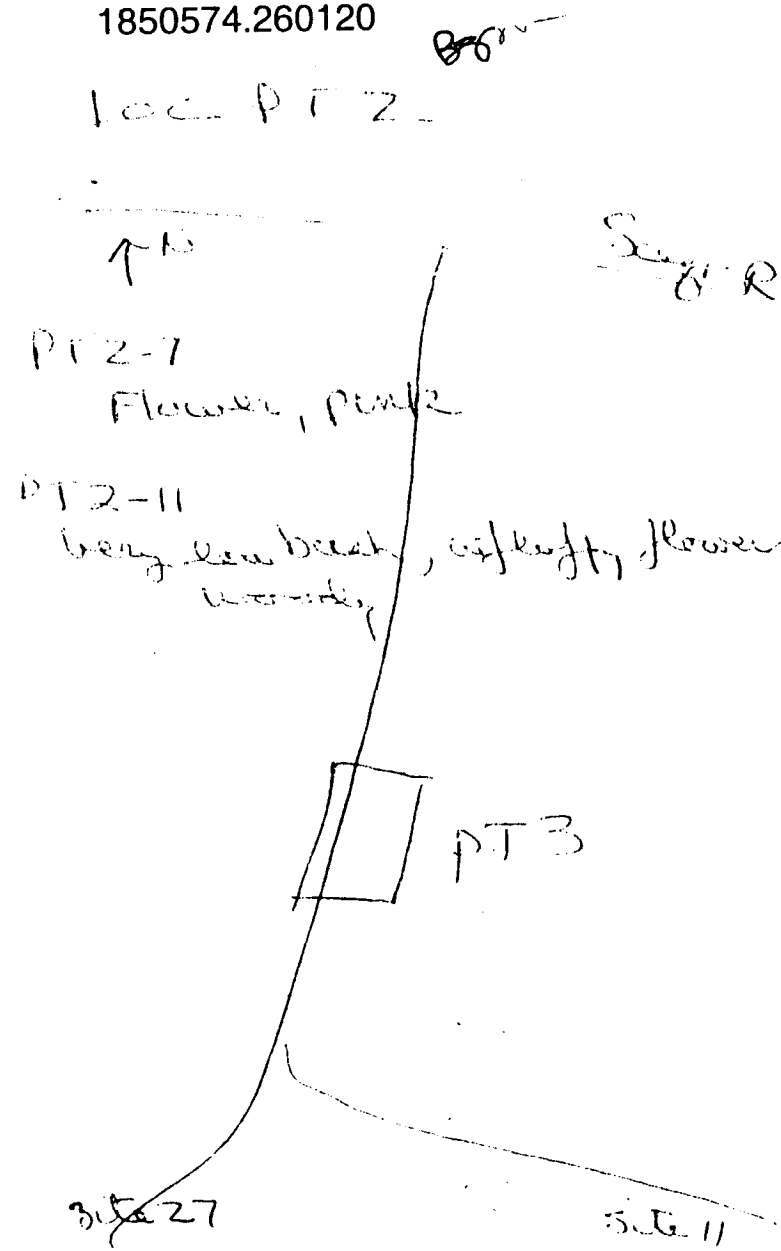
Sample log number
01 - 06

Reference number =
plant count assigned
number See Pg. 22 & 23

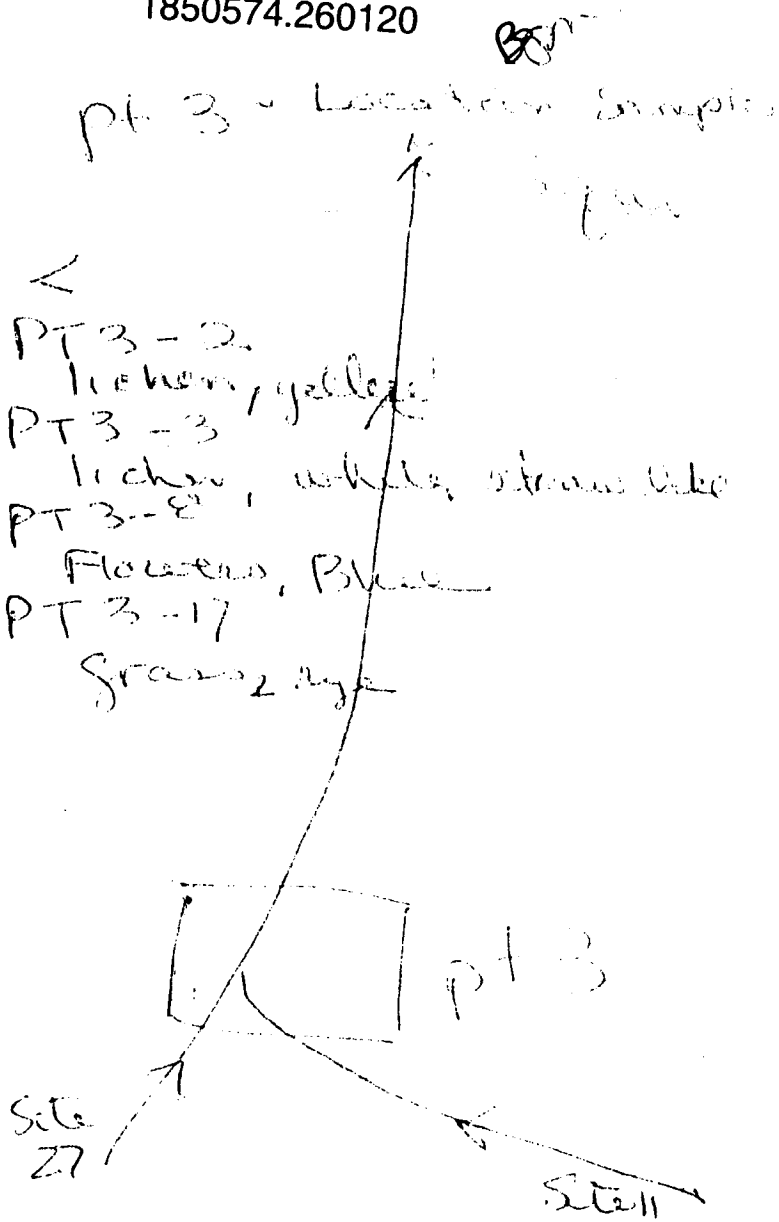
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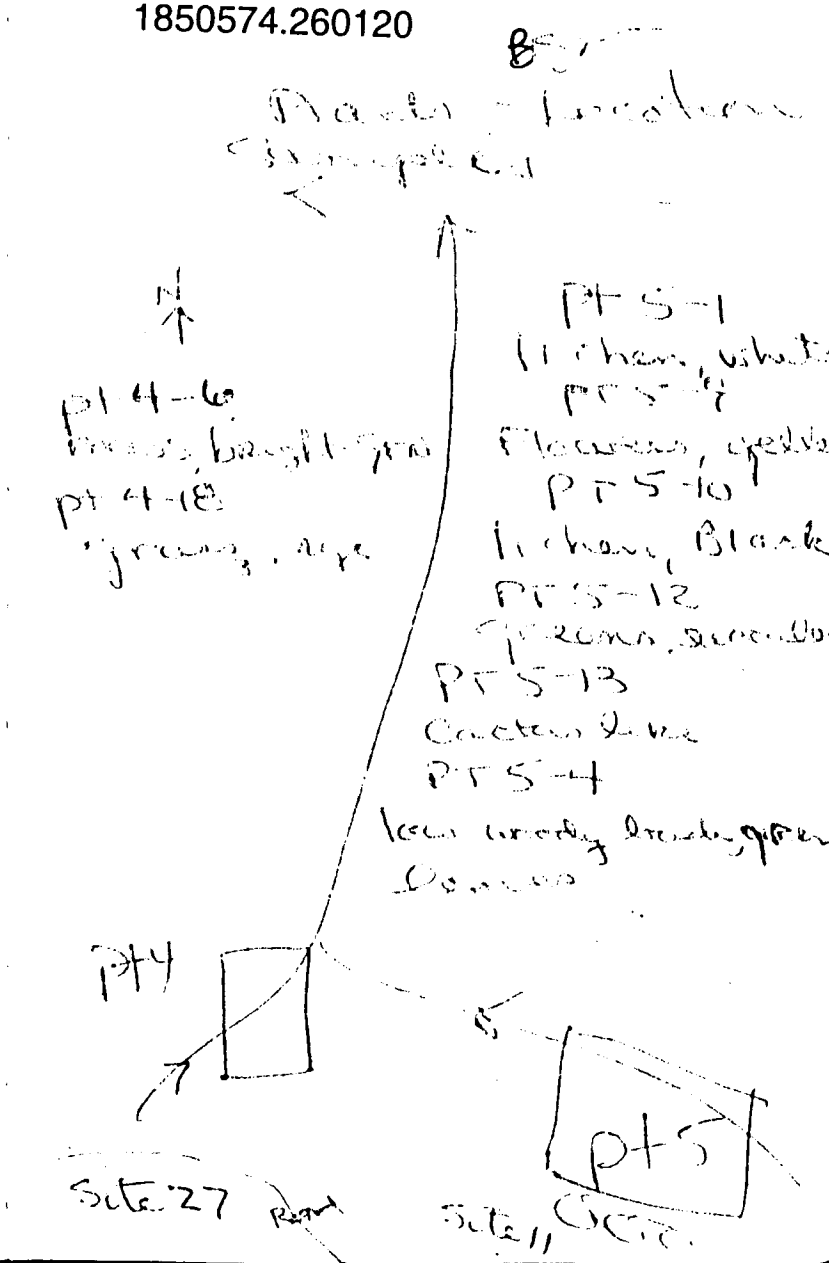
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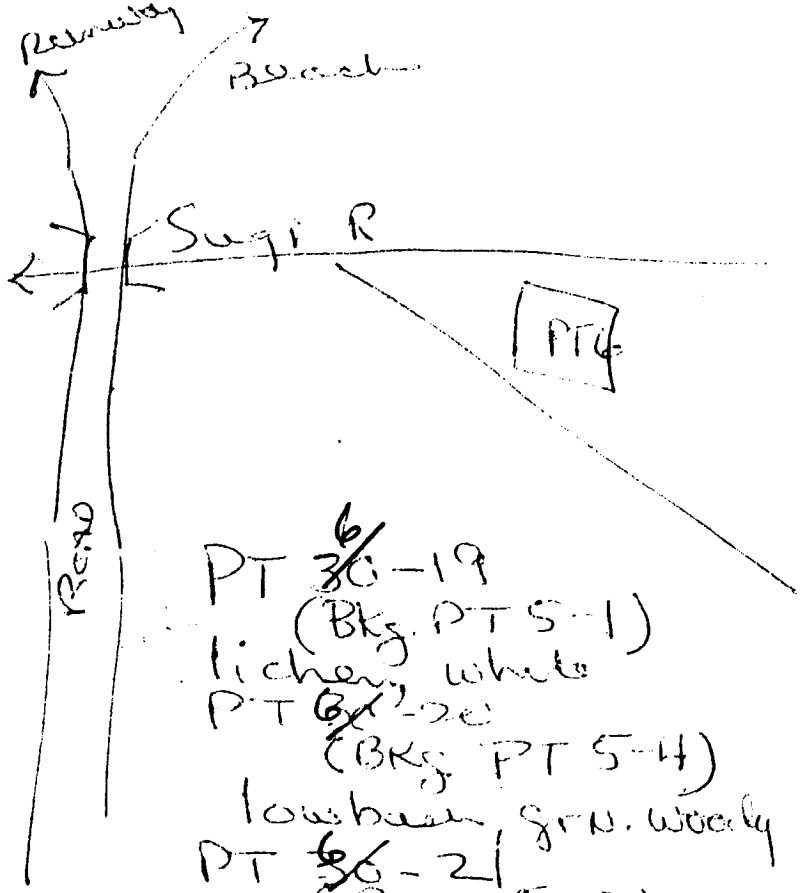
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BJM

PT 6 - Background BJM



PT 6/~~36~~-19
(Bkg. PT 5-1)
lichen, white
PT ~~6~~/-20
(Bkg. PT 5-4)
lowbush, grn. woody
PT ~~6~~/-21
(Bkg. 5-12)
greens, succulents
BJM

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BJM

~~BJ~~-01
Prepared C of C
for archive samples
for ENRI
Delivered to ENRI.
Field Report / notes
completed.

BJM

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2001
TRIP 2

BASE Sampling
Effort

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8-17-01
0800 left FOK, arrived AIA
0920 left AIA
1210 arrived NEC
1315 Left NOME with 4 PX MW
880 # cargo & 4 pax baggage
150# for Nugget
1410 arrived NEC

Completed Safety Briefing
Sorted & stored Equipment in Corner of Rm. 17 (Office / Boys Rm.)

Prepared bottles for CS 1 & 2
Reviewed ATV Safety with all; Johanna

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8-17-01 completed initial operator trng.

ONly ATV - NONE Rental.

Spoke with Floyd he will go with COE fishers starting 7AM 8-18-01
Spoke with Larry Barrett COE - he wants to use Floyd since he actual has fished there streams recently (last few days)

7030 End —

12.5 HRS

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8-18-01

0700 Safety meeting w/ NC Floyd Kingeekuk Jr. Carl Pelowook Jr. on site for bear watch Floyd will assist fishing part (NWA) and Carl will go with Gordy (COE). NWA Bicycle helmets & Vests for both NWA had 4-55 gal drums fuel. 2-55 gal. drums have been used by NC to this date.

ATV(3) & 1 trailer provided by Toolie family.

0730 Complete Safety & daily task meeting

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8-18-01

Prepared samples
sets @ 3-6 and PID
Calabrated @ 100 ppm.
Site 6 - TP 6-1
TP 6-2
SD 116
SD 117

1030 at site 6
Nugget SK60 - backhoe
Lesbian Ina operator

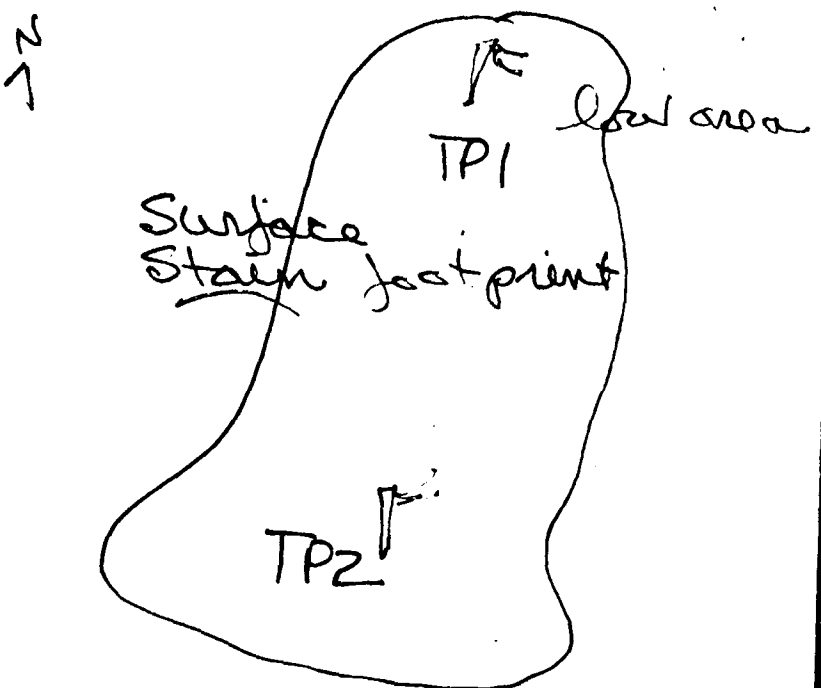
Collected 01NE06TP101
@ 4' Screen PID 107.
LAB → @ 5.3' Screen PID 37.0
▽ at 5.3.
Collected 5½ bgs for
LAB samples @ 1100
ARI DRO/RRO, TOC
MS/MSD
QA @ 1110 DRO/RRO
SAS 01NE06TP301

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8-18-01

ARI
@ 01NE06TP201
DRO/RRO @ 1105

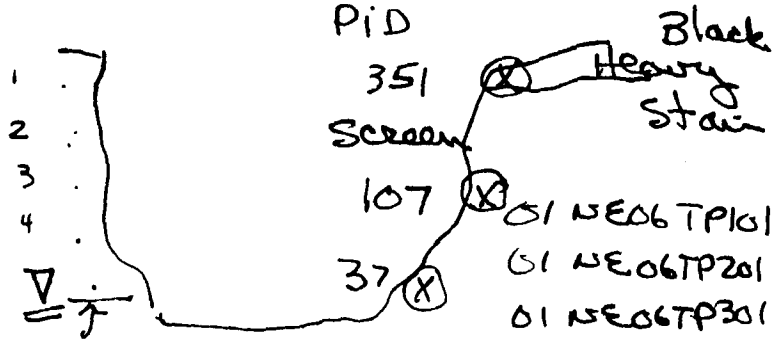
Site 6



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8-18-01

Site 6
TP1 - Test Pit 6-1

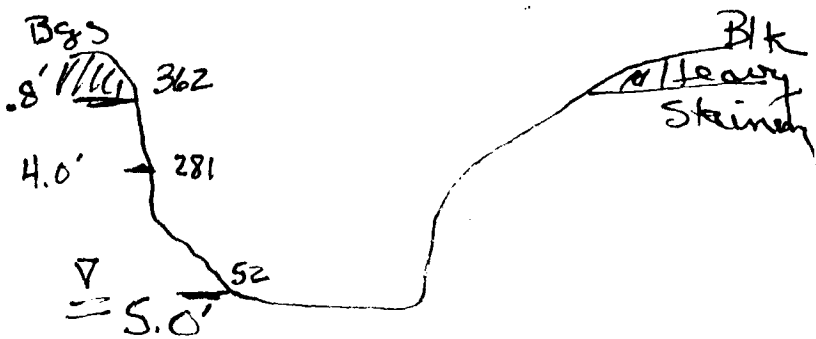


Fill
Large angular broken rock mixed with sandy yellow brown soil.
95/5%
moist to wet

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8-18-01

Site 6
TP2 - Test Pit 6-2



Lab samples @ 5.0'
01 NE06 TP 102 @ 1200
DRO/RRO, TOC

Fill
large angular, broken, rock 95%
sandy, yellow brown 5%
moist, to wet

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BGM

8-18-01 Site 6
Returned to camp, prepared COC and bottles for shipping and gathered bottles for SD/SS samples at Site 6.

Return to Site 6 - SD sampling
the Ephemeal pond on the north side has been reduced to 30' x 60', exposing broken rock, no sediment was found.
A small low area which was a surface water drainage from the drum area to the pond was sampled:
LAB ID. No odor, No sheen
01 NE 06 SD 116
@ 1600
little soil was found; it (99%) was peat. Grab Betx needed 20 ml. to cover 10 g. soil.
MeOH

BGM

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8-18-01 surface Drainage
Site 6
historical pond footprint
01 NE 06 SD 116
Drum Fields
Cargo beach Road
01 NE 06 SD 117 @ 1630
N
pond 2001
MW6-1
Distroyed (dry this date)

BGM

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8-18-01

Site 6 @ 1630 collected
01NE06SD117
DRO/RRO, GRO, Beta, PCB,
TAL metals

in drainage leading from E. end of fill, to sm. pond which drained to ocean, running along Cargo beach road.
5" of organic over rocky/silty sand (75%/10/15). Samples collect from silty sand zone 8" bgs.
No odor, no sheen
No sheen seen in pond when sediment broken.
Grab wt 10 mg. MEOH
Return to camp prepared samples for shipping.

Bgm

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8-18-01

1900 Todd Johanna & Eileen to main site for tour.
Completed reports.
End @
2030 = 13.5 hrs.

Bgm

ATV: Eileen
Marvin
Michael
Norne Rental
TRL: Eugene

Floyd	0700 – 2000	15 hrs
Carl	0700 – 1700	10 hrs
Backhoe Operator Julian Ian		1. hr

Bgm

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1850574.260120 BM 8-19-01

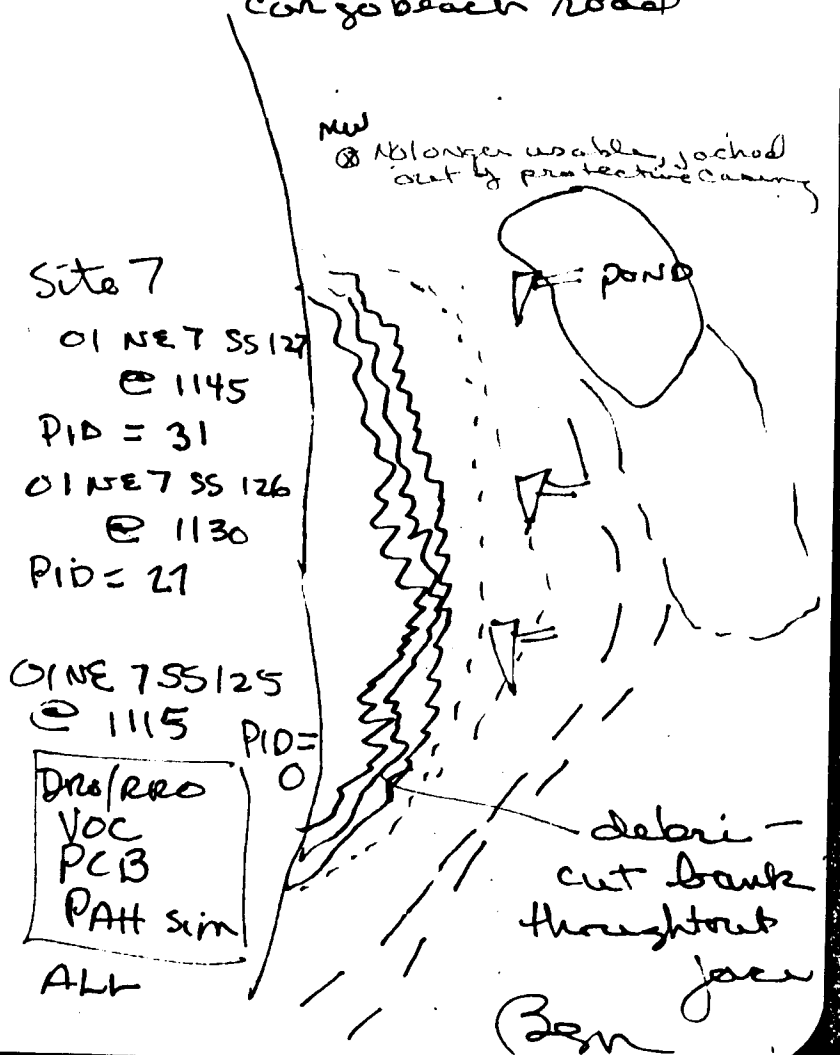
0730 Complete daily safety meeting & task planning
Nugget is not working today
0830 Floyd & Carl on-site
Very concerned with lack of large fish being caught- Dr not caught.
Per Bill 2 have been looked but lost.
Travel to burner.
930 Prepare for sampling SW/SD @ Site 7

Cal. Equitment	STD.	Read
Turb. 2100P	52	51.9
pH Beckman 11	4&7	4&7
C-S-T YSI 33	1413	1399
De 700 (DO)	Zero	0
	100 %	100%

Will use Nugget ATV
Eugene off today.

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1850574.260120 BM 8-19-01

1100 at Site 7 —



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1850574.260120 BgM See next pg 53
8-19-01

Surface Soil Sample @ 1130
01 NE 07 SS126
collect 0-.5' bgs
w/ S.S. spoon (disposable)
PID reading = 27 ppm
Dark red, moist
med. sand, rust particles
mix. Sampled for:
DRO/RRO, VOC, PAH, PCB
TAL metals; 10mg in 10 ml MeOH

Surface Soil Sample @ 1145
01 NE 07 SS 127 collected
0-.5' bgs w/ disp. SS. spoon
PID reading 31 ppm
moist red to fine dark brown
reddish, highly organic with
plant roots. DRO/RRO, VOC, PAH
PCB, Tal metals; 10 mg soil in 10 ml MeOH
1215 Return to camp; place
samples in cooler.
Prepare for SW/SD at Site 7

BgM

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1850574.260120 BgM
8-19-01

insert pg. 52

Surface Soil Sample collected at
1115; 01NE07 SS125 with
new disp. S.S. spoon; 0-0.5'
bgs. PID reading 0 ppm.
Dark red, moist gravel (rocks)
w/ sandy silt; rust particles
mixed in. Collected soil for
DRO/RRO, VOC (10 ml MeOH w/10g
soil) PAH, PCB, Tal metals.

BgM

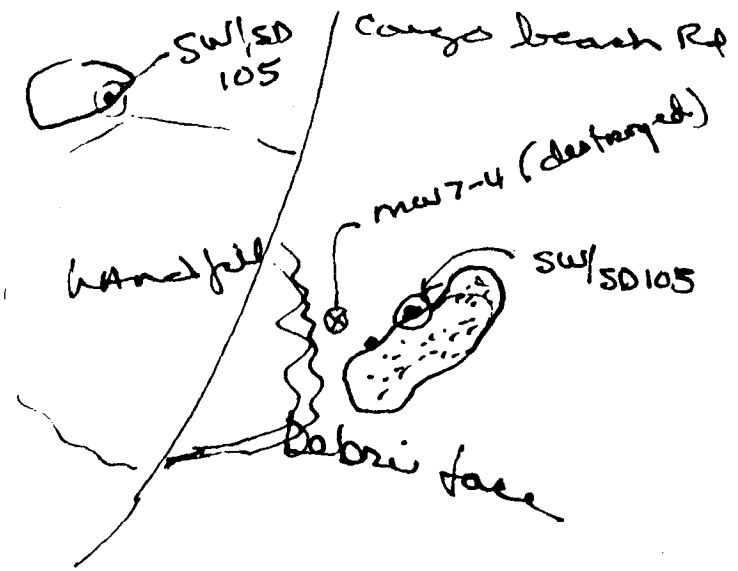
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1850574.260120 BJM 8-19-01

1300 arrived Site 7, N. side small pond intersecting with landfill debris; pond is 1/3 original surface area; rock bottom, very little sediment small patches of water grasses surrounded by thrombus
Collected SW w/ new disp Teflon dipper; water depth est. 1-1.5'
Sample collect off surface
Clear, No sheen, No odor;
1330 01 NE 07 SW 104
DRO/RRO/gro/BTEX, VOC, PAH, PCB metals tal; collected after. ISQ measurements completed.
DO 10.2 mg/L
Turb 22.1
Redox -6.8
pH 7.21
Temp. 8.°C
Cond.(Ec) 401 umhos/cm
1335 leave camp

BJM

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8-19-01
Site 7



Travel to S. side
MW 7-4 jacked out casing 2.5'
pond much smaller than former years.
Selected area where drainage from landfill enters pond.
Pond covered with grasses & plants.
Only 0.5' deep; bottom heavy organics & silts.

BJM

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Northeast Cape, St.. Lawrence Is. 8-19-01
1850574.260120 BSM Site 7 /105

Collected SW at surface w/ disp. teflon bailer; will de VOC, Beta, gro DRO/RRO, PAH, PCB, metals @1500. ONE OT SW 105

WQ Parameters

DO	~~10.2~~ BSM mg/l 12.6
Turb	149
Redox	4.5
pH	1.84
Temp	6.2
EC	505

SD collected @ 1530 w/ S.S. disp spoon
Brown silty sand, rocks throughout (4.5")
ONE ~~SD OTH~~ BSM OT SD 105 primary
DRO/RRO, gro/Beta, VOC, PAH, PCB.
Back to camp to pack for shipping @ 1730

BSM

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1850574.260120 BSM

1930 Fire alarm exercise
1945 Prepare 15 coolers for primary lab and 2 coolers for QA
Daily Report
End 2230 — 14 Hrs

ATV Minium, Michael, Nag.
Trl. Eugene

Beaver Water
Fuel 800 — 1800
Cook Jr 800 — 1800

BSM

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1850574.260120

8-20-01
BGM

0700 Safety mtg. Nugget
0715 Safety mtg. NWH,
Daily task mtg. —
Pack & ship 15 primary lab
+2 QA coolers
CofC's Signed

0800 Called Bering
will charter Kdy air
for diff. 2 ST & NM —
Nugget load coming
1000 moved coolers to
runway —
complete reports,
faxed CofC's to Anch
Becky to FAX to labs.
1115 FAX complete
Called Anch-1 confirm
all rec'd & will
Give to Jane W.
C-130 Bering air arrives
coolers loaded
1230 Called AKAK NONE

BGM

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8-20-01
BGM

to confirm PRI PIK(15) &
gold streaks (2) are on the
way.
Prepare bottle sets.
Cleaned up after Bulrice
Bill brings in 3-large 15-lb "
Dollys,
1430 At site 16 - to confirm
Existing new 16-1, 2, 3 have
GW before labeling bottles

bgs.	▽ PVC	D_T PVC	steel
16-1	13.6	16.7	17.02

steel stickup 3.25' abs
16-2 unable to access, will
need wrench

16-3	13.85	17.27	17.45

steel stickup 2.81
1600
Stop at Site 35 - PT 5
pick 9 oz Berries. & plant.
LAB ID. DINE 28 PT 5 107@1530
CROW, PUGUNG HAG

BGM

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1850574.260120

8-20-01

1700 Return to camp, make up sampler sets

Bill, H&S, says there should be an OSHA officer on site the end of week.

Call Jane need a few things —

4 Bx ZIP Locks, lg.	4-Bx. 4
6 Bx-Tape, 4 rl.	gloves, small
6 Bottles —	Eye wash
1 roll each	Stickers

↑↑ ; Jungle

Call Rich, leave message if we can send staff with his charter Wed. Ask him to leave message at mess.

Eileen &

Doug need Jeff copies of medical q, 40-hr., & 8 hr resp. fit test.

Bgm

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8-20-01

1830 Packing bottles, making ice

2100 Start daily report.

2200 End. Day 15 hrs

Bgm

Bear watch, Floyd
0700 – 2130 14.5 hr

1. ATV Eugene w/ Trailer
2. ATV Michael
3. ATV Miriam

King air — $ bout NAJ #King

- CROW ~~Berries~~
NATIVE name
"pughungnag"
TO CAS, PAH, PCB, metals

Bgm

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8-21-01

0700 Safety Mtg. nugget
0715 Safety mtg MUSH
Prepare Samples set

0800 Call Anch-1
Req ① Doc DQ & Eileen
to be FAX
② MSDS
Confirmed coolers arrived
Seattle - 2/15 (flight 10)

Prepare Samples; completed
Sample Counts, Sample
plan check list -
Set-up food delivery area
Trash to burners; ice
making
1200-1220 lunch
Prepared bottles; Fish Complete
Sta 29 completed
Packed Coolers
Set-up MSDS binder
2120 End Day.

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8-21-01

ATV
#2 Eugene
#3 Miriam
#4 Michael
Trailer

15.4

Ron Walsh
700 - 1430
7.5 Hr
Bill of Fish
700 - 1600
& prepare - Phe

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8-22-01

0700 Wind 48-50 mph
gusts 57 mph. Safety mtg.
Will not sample. Bell help
Fish. Nugget also down.
Prepared coolers for
sampling & shipping.
1530 Try to sample
9-10. Safety meeting (2nd)
RAIN w/ 40 mph. Call
back Melissa & Bell.
Unsafe conditions.
1900 Clear, no wind.
Call Bering they will here
@ 2100 to pick R coolers
pack: 15 primary
2 QA
2 CAS - Fish & plants.
Bering arrives
@ Bell DQ, & I load plane
Start Ice marking, clean
up bottles & coolers
which were unwind
storm.

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8-22-01

Equipment & coolers full
Water - start drying out
stuff - Throw away towels
gloves & baggies.

End. 2230. 15.5 hrs

ATV & Marium, Michael
rental
Tkle. Engeen, rental
Bear Watch 4 Hrs - Floyd
Field Notes

1 - NAJ. 1-P

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0700 Safety mtg w/ Nugget
0715 MWH - complete daily safety & planning mtg
Reviewed time sheets, field notes, and field forms.
~~Straighten up, pulling samples~~, and storage for COE visit
1015 Lisa, Rich, & Gerald arrive
Spoke with Lisa about fish samples. All collected & shipped to CAS (2 coolers). She was happy. She will take other fish & "special" water/sediment samples. COC completed & cooler packed for 1700 departure.

Doug, Bill, & Floyd went to Top Camp
Melissa & Johanna went to Sit 16
Eileen & Johanna prepare Ship bottles
I prepared sampling bottles

Bgm

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1850574.260120 8-23-01

Bgm

1115 Tracked
GoPRI to SEA
to ARI 2754 1135
P/u @ 825, 8-23

~~to CAS arrived PD~~
@ 958 pm on 8/22
17204600 & 17204596
to Sound
17204692
17204541
FAX info to Anch
1410 Bruce arrives
Completed Safety briefing
ATV driver training.
I went w/ him to old sites & kept 24 & 25
Floyd & DG went to 33 & 34 w/ Bruce.
He thinks he will be able to leave w/ Eileen 8-24-01 Friday.

Bgm

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1850574.260120 BJM
8-23-01

1700 at mob, Prepared all sample sites
1900 Bill w/ Bruce to site
Got grocery order for Maria to ship out
8-24-01
Prepared coolers for 8-24 - Shipping

7- GO PRI (ARI)
27541080

2- Second GS 17204342

FAXED NOTICE to Anchr1 for relax to 1 Abs.

Prepared ice coolers, and completed sample sets.

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1850574.260120 BJM

8-23-01
OSHA compliance officer on site.
COE on-site (Cd. P)
Review of training doc & MSDS completed. NO cites.
Viewed work areas, NO comment.

Friday 8-24-01

0700 Safety mtg Nugget

0715 Safety mtg - mtl

Prepare for WP. Bruce, Doug & Floyd to site 31, 24, 25

Shipped 9 coolers.

Eileen & Bruce will leave at 1600 with Boring.

[redacted] Bruce & Floyd to site

Visit Tap Eileen, Lagoon, & Sax river.

Review sample counts vs requirements w/ Eileen.

BKg (site 30) complete (except WP's), site 21.

1400 Doug starts screening (PCB)

1605 Berrigan - on site

1630 Berrigan off to NOM

1645 Confirm w Don Mulliken in Nome, will be out 8-26-01 1 pm. flight

Prepared field notes.

Floyd off 1600 - 1830.

Bgm

1830 Doug & Floyd to site 31/32 & 14. to collect lab samples from screen results.

Cont. the ice & bottle prep.

Daily Report completed

End day. 2230.

Doug not returned. Call on radio, OK still working @ site 32.

Bgm

NEC COE
8-25-01 Sat
0700 Safety mtg - Nugget
0715 Safety mtg.
plan for today
Doug & Bell will install
well pt Melissa will
Collect WQ parameter info
I will collect samples
Johanna will process
samples and prepare
coolers for shipping

load freezers with unfrozen
ice
prepare equipment
Cool, NO wind = Bugs
940 (See note pg 76)
Arrive at Site 3
Collect samples WP 2, 3, 4
(see pg 73)

Move to Site 4
1500 Melissa not feeling well
reaction on mosquito bite.

Sampling 8-25-01
WP Site 3, 4, 6 (part)
See Melissa notes for WQ info
8-25-01 — DRO/RRO only

Loc	WP	Sample ID	@ Time
3-2		OINE03WP102	1015
3-3		OINE03WP103	1045
3-4		OINE03WP104	

STICKUP 2.5' ▽ = 4.02' btc D_T 6.27'
All Site 3 = DRO/RRO
8-25-01

4-2	OINE04WP102		1200
	STICKUP 3.32'	▽ = 4.50' btc	D_T 6.25'
4-3	OINE04WP103		1345
		▽ = 3.45' btc	D_T 6.35'
4-4	OINE04WP104		1500
	STICKUP 3.26'	▽ = 3.49 btc	D_T 6.25'

ALL Site 4 = DRO/RRO

@ 30-1	OINE30WP101		1600
	STICKUP	▽ = btc	D_T

DRO/RRO, VOC, PCB, metals, natural attn.

WP 6-3	OINE06WP103		1700
	STICKUP 2.03'	▽ = btc	D_T

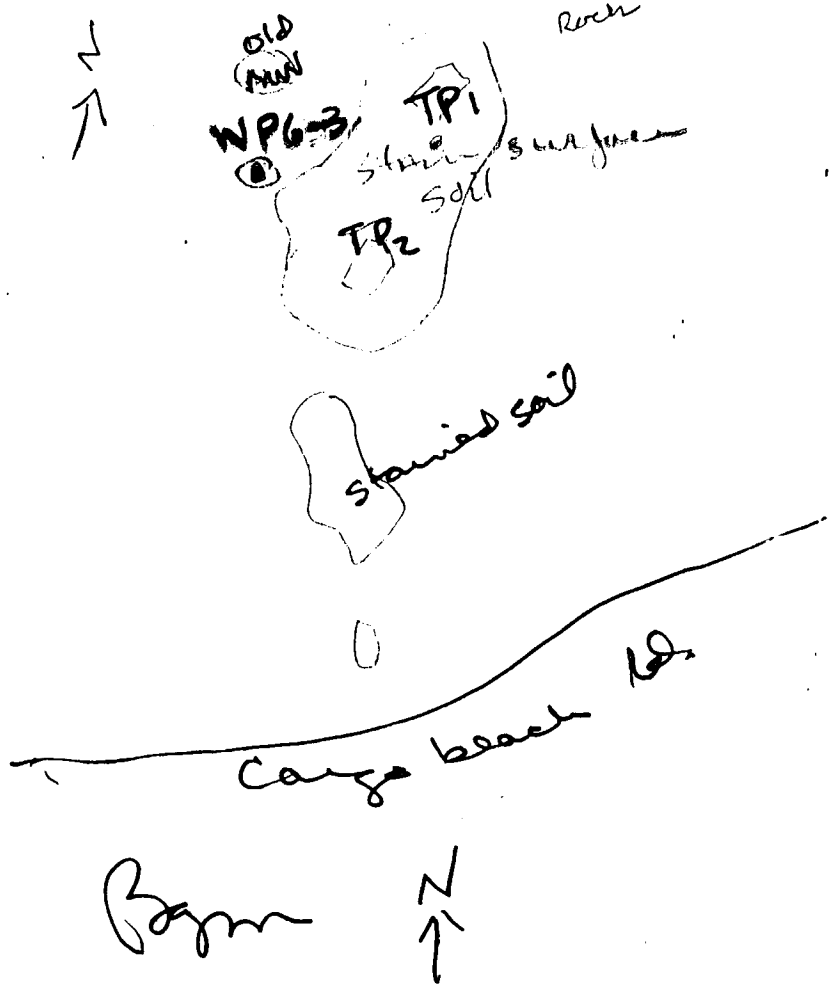
DRO/RRO, metals, gas/Beta, PCB

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8-25-01

Site 6

WP 6-1, 2, 3
Locations



8-25-01 measurements only

WP 6-1
stickup 2' ▽ 3.2' BTOC 3.2' BTOC

WP 6-2
2.31' ▽ 6.2' DT 6.01' BTOC
stickup 2.3' BTOC

WP 6-1 was attempted 3 times each day resulted in refusal & destroying well point materials using all extra screens.

1800 return to camp
1830 prepare samples for shipping
Clean equipment used today
Pack for 8-26 work.
Well point installation.
2200 End day.

15 Hr.
4 ATV 2 TRL
@ air

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N 8-26-01 C 2W

0700 Nugget safety
0715 mutt safety & daily planning.

Bob & Doug start sampling at Site 9.

Melissa to complete water levels & collect parameters. (Add note for 8/23)

New YSI-33 meter failed to work after visit to Site 3.

It was operational during calibration by Melissa.

Melissa back to Camp Collect doesn't know how to operate YSI 33 See directions on back. Turn on - wait 5 min for warm up read conductivity

8-26-01
0930 MW9-4 3-Constructek 1994
Seal tight, PVC jacked
▽ 5.71' b PVCC
═ 11.21' DT
Stick up 4.24' PVC
Water very salty, lt. brn.



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8-26-01
Site 6
WP 6-1 – dry
I collected a SW from pond N. of site
DRO/RRO collected @
1100 01NE06 SW 116

1200 WP 9-103; very tight silt ~~Weighted sed to 89~~ Only able to Collected 360 ml. then dry; NO recharge within 15 MIN.
1240 Collected 580 ml. – dry again
1300 Collected ~~of~~ Water from WP 9-103
1315 Collected Water from pond - 25' E. of WP9-3
NOW replace samples set as 01NE09 SW112
for DRO/RRO, PAH, PCB, grd, VOC.

Bgm

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8-26-01
Note from Bell
[illegible]

1445 Bering air on site (NAV) with Dirk Mulligan (St Lawrence Island Surveys staff)
Doug, Johanna, Melissa prepare to leave
14 coolers being shipped as personal baggage limited to 225# including body.
1530 Doug & Johanna ready. Relay roadsurf
1615 Melissa ready – fog lowering

Bgm

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8-26-01

1620 Boring leaves
Review safety & comp
Rules w/ Don
Review site location ptr
Provide copy of completed
maps of all sites
Carl (Beachbitch) ready
at 1602, cashed to Handby
Don ready at 1830 Bell
& Carl accomp to site
24/25, lower Wtc, 31.932.

2130 Team returns
Complete prep of 6 of 8
coolers for Mon Shipping
2230 End Day

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8-26-01

14 coolers out 8-26-01
11 PRWN
2 QA
1 COE

Bear water - Carl
1600 - 2130

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8-27-01
TD Nugget briefing
Tool Safety mtg
Don, Bill, Floyd to Top Camp
I started sorting equipment
ANC, [illegible]
Sept. work.
Shipped 8 coolers to PRIM.
FAXed to Arch Coyc

Continued to pack equipmt.
1300
Floyd & Don to do DB & Sugi P
to Lagoon
Bill continuing sampling
Site 9 & 7.
1900 Bill & Don to site 16 & 21
2140 Back
2200 Eval
Chg start time to 730
because of lighting

Bgm

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8-28-01
700 Fire drill
730 Nugget Safety mtg
800 Safety mtg
Don & Floyd continue
~~Survey~~ Site 3, 4, 7, & 9
Bill continue to sample
I continue to pack,
~~Prepare~~ 6 coolers for
Shipping at Nugget pm
Packed & inventoried all
equipmt to stay; Ice (2 bx)
in camp freezer, stuff in Rm
17, & coolers with ice outside

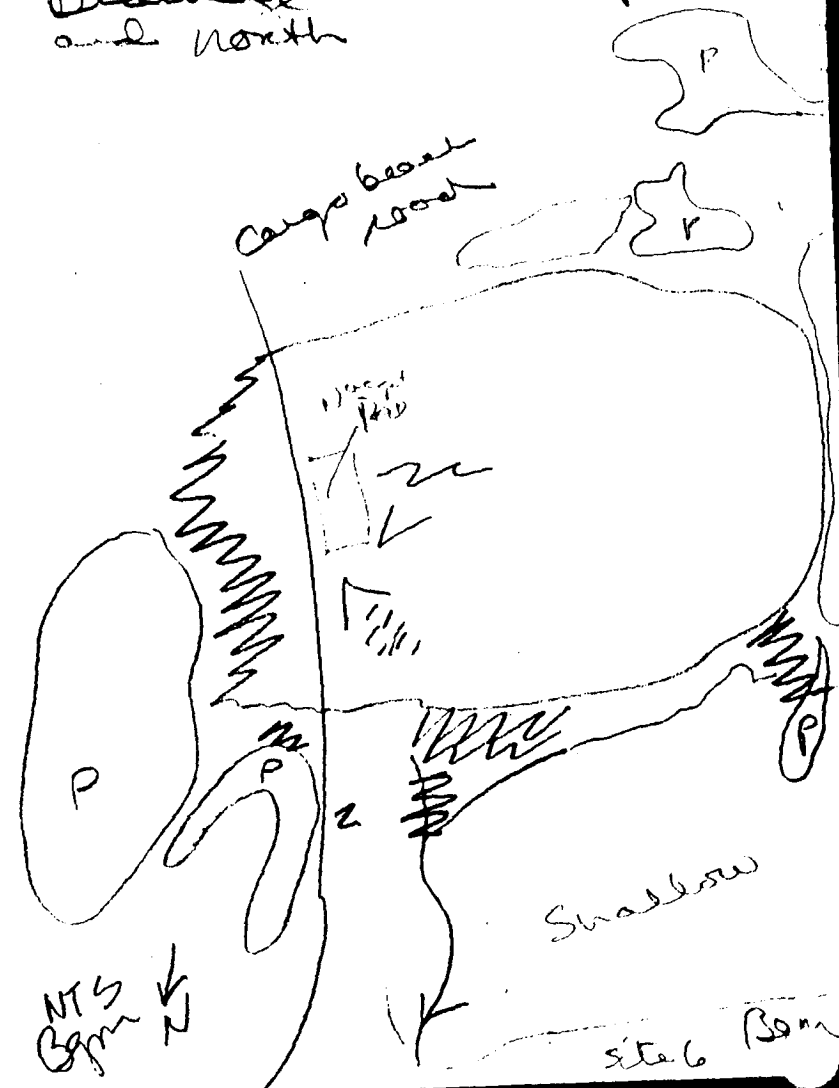
1430 Bill & I start vedio
& 2001 work & evaluate
Sandfill Site 7

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8-28-01
Site 7 -
little veg. cover on main
slide but debris sticking out
holes occurs.
The north toe exposed
of large metal debris;
airplane, vechicle body
East side, wall of debris
Nugget started removals
filled quota & stopped.
This area has most Exposed
debris and soil; erosional
capacity high
This directly linked to a
surface w

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8-28-01
Drainage to east pond
and north

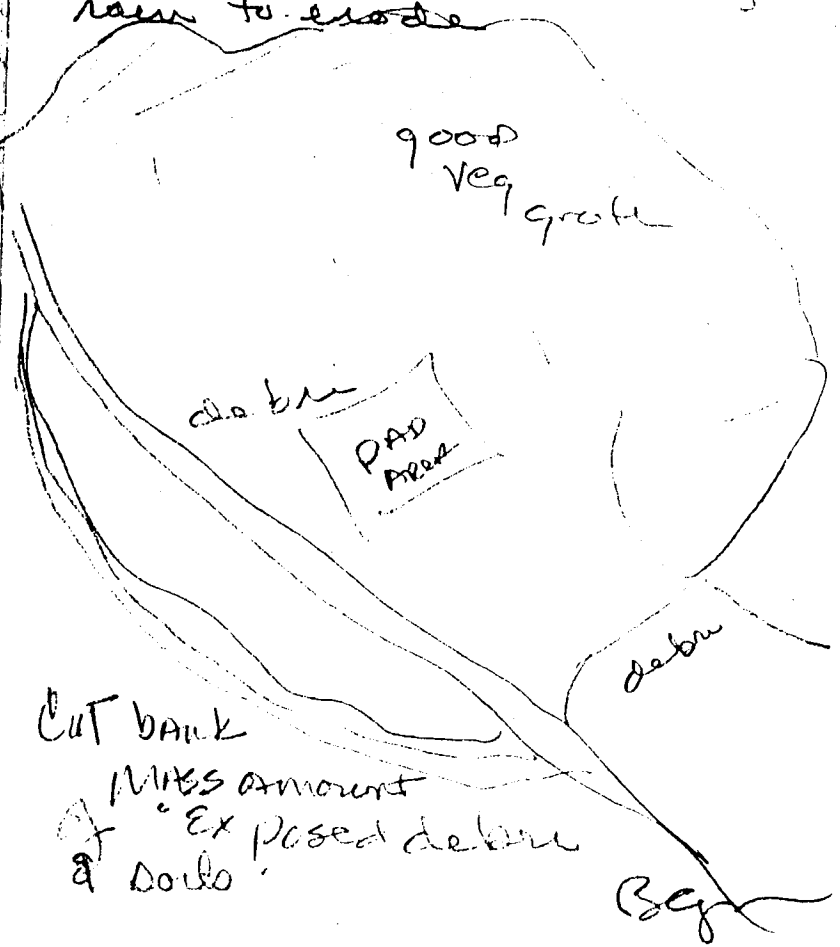


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8-28-01

Site 7

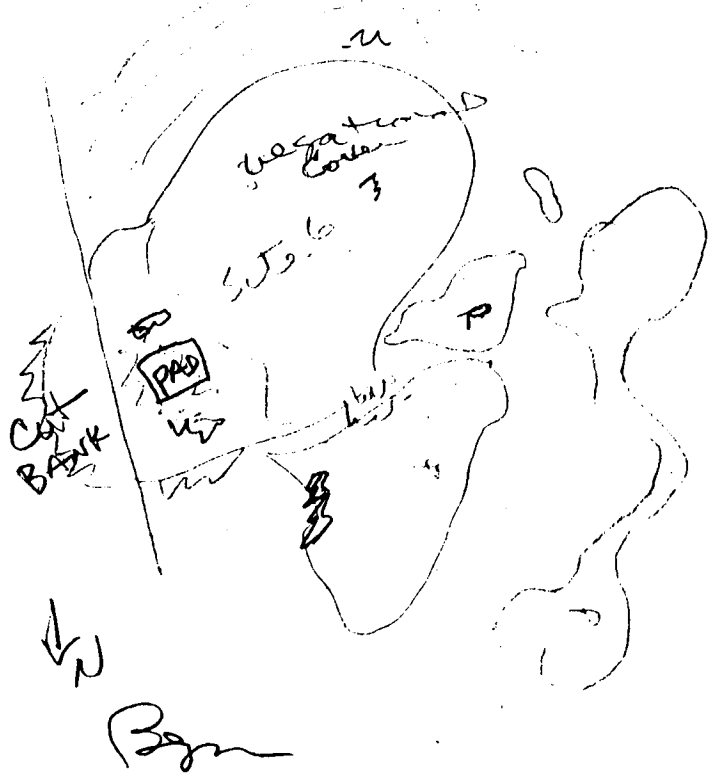
Nugget removed the exposed drums, leaving drum size holes, allowing rain to erode



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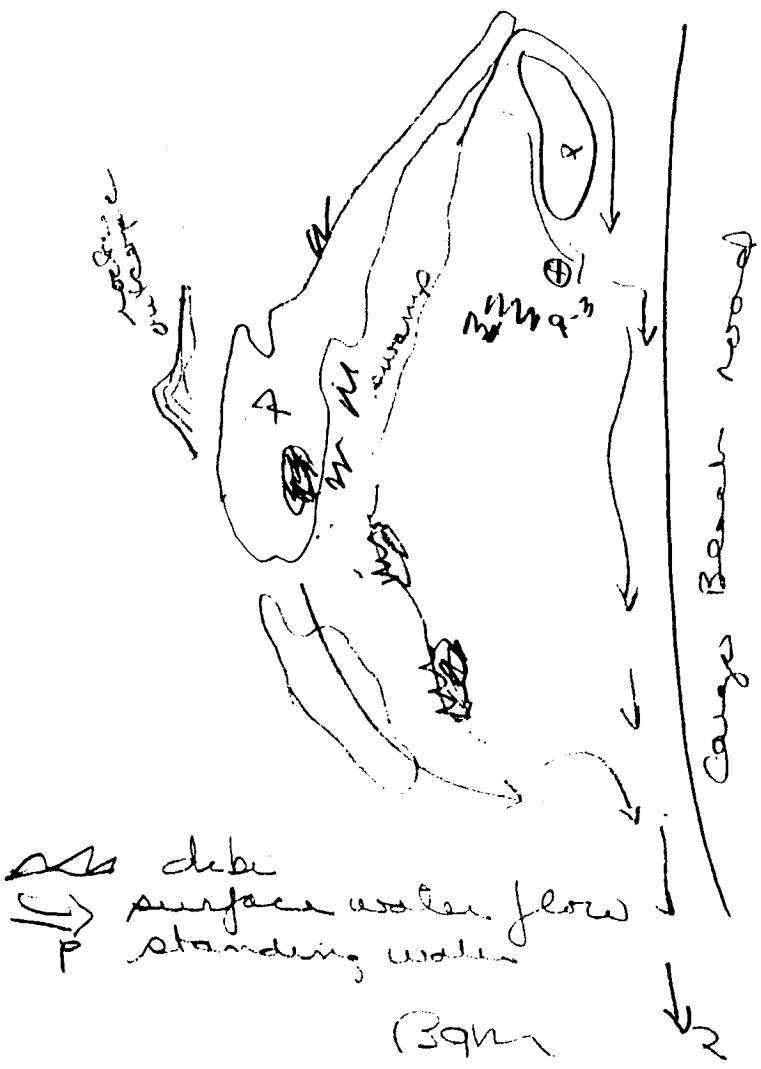
8-28-01 Site 7

Small wide well covered little debris showing; well veg; exposed barrels on east cut and on top (pad area). Nugget removing Exposed barrels.



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1620

Site 9



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Site 9

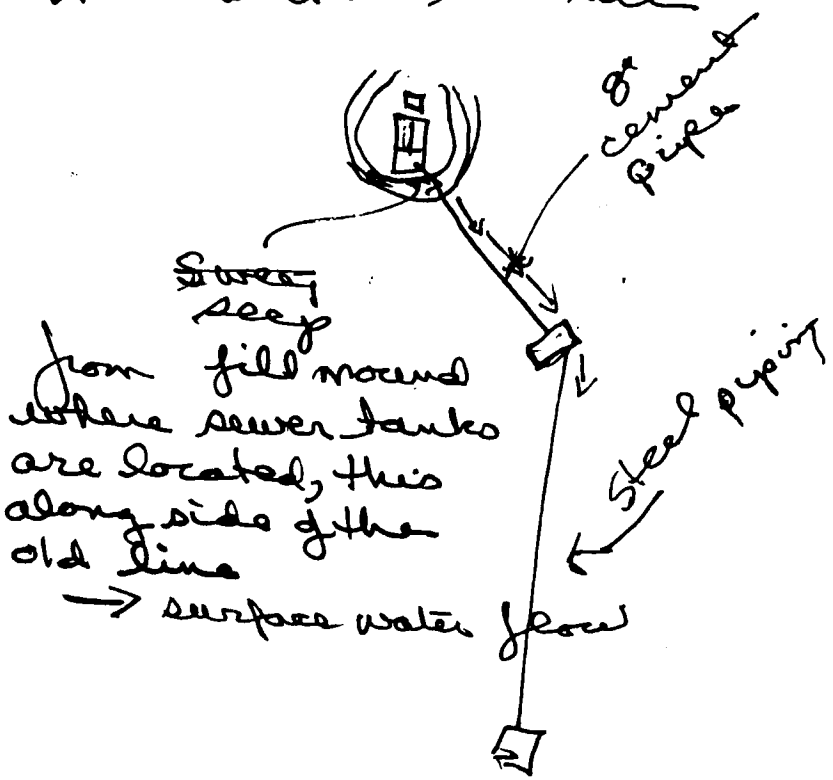
rocky, veg cover; swamp, most exposed debris near water bodies or on mixed rocky areas;
good veg growth... no exposed soils, stable topping.
Bill took videos & I took still photos
Don will complete site survey
We started videos of remaining sites were sampling occurred in 2001

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NEC
8-28-01

Site 2

The first run of outfall piping is cement (CSCM) 8" runs into 10' steel on last run



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NEC
8-28-01

Completed Bear Watch and ATV rental accounting for Eugene and Floyd. Sandi had NAJ today - Stephanos today $ MD.

End 2100

Bgm

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NEC
8 8-29-01 ... ... nuggar safety
0900 MWA Safety
Floyd arrives to estimate
Bill to site 24/25, 31 & 32
Dan to complete survey
for Sandi (pipe removal
sampling location &
site 36)

Complete packing drain
gas from rental ATV
Washed both trailers
Called Pat @ Morgan Sales
that ATV & trlr should be
in Nom Thurs.. 8:30 at
Berry Air. He will call Berry
for P/u.
Call about sealed bearings
for Eugene's 450 Honda.
Unable to locate in Nome
will get in Anch.

1020 Bill & Floyd back
Completed time accounting

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NEC 8-29-0
for Floyd ... will call ... ANC JR
to confirm if MWA sends Ck
directly to Floyd or to SNC.

Continued packing;
inventoried GAM's staff
all pkgs flagged w/ red
tape & labeled w/ pink add.
label.
NEC 9-01 staff staged in
Rm 17 & S-end of Camp Bldg.

Weather still down
Charter delayed
until 6 pm

until 7 pm

arrive 7:15 pm

in Nome 8:10 pm
All get held, leave
Nome 8:20 pm. Arrive
Anch. 9:55.

DURA Rite
WATERPROOF

HORIZONTAL LINE

Waterproof Notebook
No. 691

Aug. 17 – 24 2001

USACE
Northeast Cape St. Lawrence Is.
MWH 1850574.260120
Eileen Maus Chemist

4 5/8" x 7" - 48 Numbered Pages

USACOE
Northeast Cape, St.. Lawrence Is. Aug 17 2001
1850574.260120

8am Start of Day Mob to NEC
Leave Anch 9:20
Arrive Nome 12:30
Leave Nome ≈ 1:00
Arrive NEC ≈ 1:30

2:30 Health & Safety meeting
Camp Ops.

3:30 Unpack and Setup
Connex/~~for~~ office/rooms

5:45 Dinner

Labeled and packed
coolers for sampling at
Site 28 - surface water bottles

8:45 END of Day.

8/17/01

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Northeast Cape, St.. Lawrence Is. Aug 18 2001
1850574.260120

7am Start of Day - Health & Safety + Tail Gate Meeting
Site 28 prepared bottles
Cross section 1-4
Site 6 prepared bottles
TP 1, 2 & SD
Site 7 Surface soils prepared bottles
Packed coolers - ICE samples

7pm - 8pm Tour of sites
7

Started COC #@ 01NEC04

samples collected to ~~date~~ due to July sampling event

	DRO RRO	PAH SIM	PCBs	Pb EXT	TOC
Site 28					
SD samples					
primary	24	24	24	24	24
FD	2	2	2	2	0
MS/MSD	2	2	2	2	0
QA	2	2	2	2	0
QA MS/MSD	1	1	1	1	0
SW samples primary	2		2		
FD	1		1		
QA	1		1		
MS/MSD	1		1		
QA MS/MSD	1		1		

8-18-01

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Aug 18 2001

Samples collected @

Site 6	DRO/RRO	GRO	BTEX	PCBs	Total Metals
primary	4	2	2	2	2
FD	1	0	0	0	0
ms/msD	1	0	0	0	0
Q4	1	0	0	0	0
soil TB (01NE00TB101)		1	1		

PRIME LAB 8/18/01 @1600

Continued to prepare Bottles for sampling
Cross sections 5-8 ready for Sampling
Site 2 SS ready for Sampling.

9 pm am End of Day

9-18-01

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Aug 19 2001

7:30 Tail gate Safety meeting
8:00 Continued to pack coolers and make COCs TRIP BLANK Water PRIME LAB 01NE00TB102 @ 1900
12 Lunch
12:30 continued to pack coolers
5:45 Dinner
6:15 Continued to pack coolers
9:30 END of Day

8-19-01

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Em 8-20-01
EileenMaus

8-20-01
Eileen Maus

Sample counts not including Site 28. Site 28 completed 8/20/01.

	DRO	GRO	BTEX	VOC	PAH	PCB	TAL	Pb Cr Zn	TOC
Soil RRO									
Primary	9	2	2	5	5	7	7	0	2
FD	1	0	0	0	0	0	0	0	0
ms/msD	1	0	0	0	0	6	0	0	6
TB	0	1	1	1	0	0	0	0	0
QA	1	0	0	0	0	0	0	0	0
QAms/msD	0	0	0	0	0	0	0	0	0
QA TB	0	0	0	0	0	0	0	0	0

	DRO	GRO	GRO	VOC	PAH	TAL metals	PCB
Water	RRO		BTEX				
Primary	9	2	1	2	3	3	9
FD	1	0	1	0	1	1	1
ms/msD	1	0	1	0	1	1	1
TB	0	1	0	1	0	0	0
QA	1	0	1	0	1	1	1
QAms/msD	0	0	0	0	1	1	0
QA TB	0	0	0	0	0	0	0

Eileen

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Northeast Cape, St.. Lawrence Is.
1850574.260120

Em
8 2001

8

8-2001

Eileen Maus

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1850574.260120

7am Start of Day
Tramp Safety meeting
Tail Gate safety meeting

Continue to pack coolers for shipping.

15 coolers to ARI
GO-PRI
2 cooler to SAS
Goldstreak

12 Lunch
1230 Prepare bottles for Site 29

Water Temp Blank 01NEOCTB103 8/20/01
Se

545
~~530~~ Dinner
6:15 Pack coolers - clean up and make COC for todays sampling.

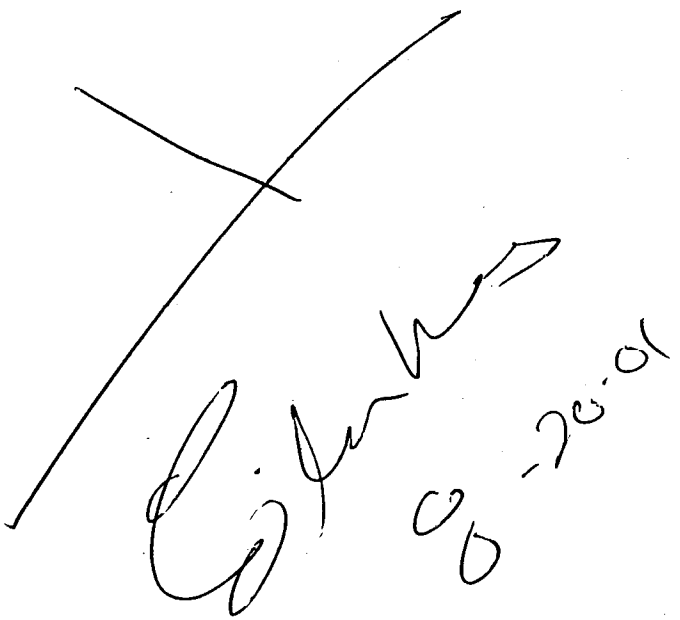
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8-20-01

Eileen Maus

The weather has changed for the better - here comes the bugs.

Site 28 sampling is completed.
See next two pages for Sample count summary.



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1850574.260120

Eileen Mans 8-20-01

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1850574.260120

Eileen Mans 8-20-01

~~Soils~~ Site 28 final sample counts

Soils	DRO RRO	PAH	PCB	Pb Zinc	TOC	water	DRO RRO	PCB
Primary	71	71	71	71	71		6	6
~~Field~~ FD	9	9	9	9	9		1	1
ms/msD	4	4	4	4	4		1	1
TB	0	0	0	0	0		0	0
QA	9	9	9	9	0		1	1
QAms/msD	1	1	1	1			1	1
QATB	0	0	0	0	0		0	0

Trip blanks:

GIWEOOTB107 @ 900 8/20/01 QALAB S45

8:30p.m END of Day

8-20-01

8-20-01

12

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8-21-01
Eileen Maus

7am start of Day
Camp Health & Safety meeting
7:30 Tailgate meeting
Drink more water
8:00 Continue to prepare sample labels - and sample counts

10:00 - Sample shipment made it to Seattle!
Yee haw
Trip blank primary LAB OINEOOTB104 @1900 Soil
12:00 Lunch
12:30 Continue packing coolers
Continue prepare Sample Bottles
5:45 Dinner
6:15 Clean up work area
Continue to pack coolers.
8:30 END of Day 8-21-01

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8-22-01

4:30 am high winds
Shaking Camp

7am Start of Day
High winds - possible weather Day. Field work on Hold.
Tailgate safety meeting - High winds warning.
8:00 continued Back checking Sample counts QA/QC/MS/MSD
Trip blanks site 9 if weather clears soil OINEOOTB 108 8/22 1100 OINEOOTB 109 8/22 2100
12:00 Lunch
12:30 Wind is causing Plane to go on and off Trying to return Lynn's phone call with questions for SAS. All OK - will Fax a revised COC when weather clears.
5:45 Dinner
6:15 Prepare paper work for Shipment ~~7:30 END of Day~~ Plane to night 8/22/01

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Northeast Cape, St.. Lawrence Is.
1850574.260120

8-22-01
Eileen Maus

DRO

7:30 continue → plane
will be here in an hour
Checking COC's for discrepancies and ~~errors~~ and samples.
Only minor discrepancies ~~errors~~. Made
Changes - All OK. Samples
Counts to date - not including 2B

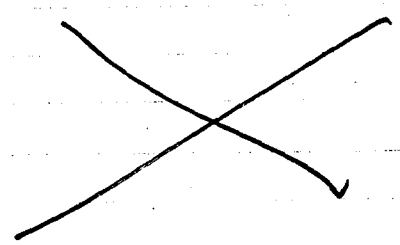
Soil	DRO RRO	GRO	BTEX	VOC	PAH	Pest.	PCB	TAL Metals	Pb	Pb, 2nCr TOC
Primary	25	6	6	5	18	0	20	11	0	9 10
FD	3	0	0	0	2	0	2	0	0	2 0
MS/MSD	3	0	0	0	2	0	2	0	0	2 0
TB	0	1	1	1	0	0	0	0	0	0 0
EB	0	0	0	0	0	0	0	0	0	0 0
QA	3	0	0	0	2	2	0	0	0	2 0
QA MS/MSD	0	0	0	0	0	0	0	0	0	0 0
QATB	0	0	0	0	0	0	0	0	0	0 0

8/21/01

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

8-22-01
Eileen Maus

Water	DRO	DRO RRO	GRO	GRO BTEX	VOC	SVOC	PAH	PCB	TAL Metals
Prim	0	10	2	4	2	0	6	12	6
FD		1	0	1	0	0	1	1	1
MS		1	0	1	0	0	1	1	1
TB		0	1	1	1	0	0	0	0
EB		0	0	0	0	0	0	0	0
QA	0	1	0	1	0	0	1	1	1
QA MS	0	0	0	0	0	0	1	0	1
QATB	0	0	0	0	0	0	0	0	0



DRO coolers to primary lab → GO Pkl shipped
2 Fish coolers cold shuttle
2 QA coolers cold shuttle

8:45 END of Day

8/22/01

USACCE
Northeast Cape, St.. Lawrence Is.
1850574.260120

8-23-01
Eileen Maus

7am Start of Day
Camp Safety Meeting
7:30 Tail gate safety meeting
8:00 Continue packing samples
10:00 Prepare bottles for sampling
* remember to cancel lcd
- ms/msD Pb Zn Cr
on Sample 01NE295D125

12:00 Lunch
12:30 Continue packing samples
& prepering sample
Bottles

9:30 END of Day

8-23-01

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

8-24-01
Eileen Maus

7am Start of Day
Camp Safety Meeting
7:15 Tail Gate safety meeting
7:30 Continue packing
Coolers

8:00 am authorized Johanna Doe
to Relinquish Coc

10:00 END of Day
Arrive in Anchorage

8-24-01

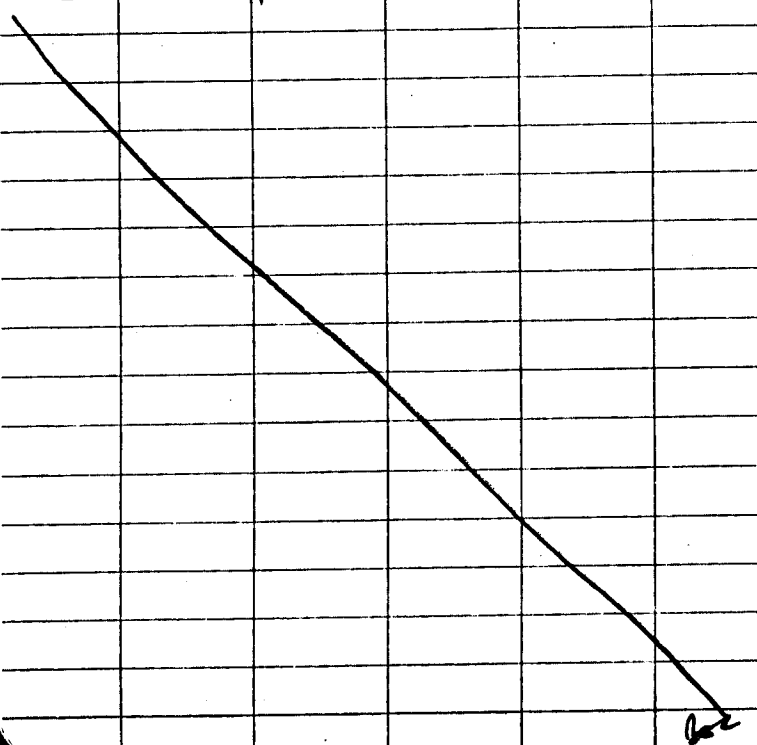
2

Location _____ Date _____

Project / Client _____

William A. O'Connell
Associate Geologist, MWH Americas

Northeast Cape, St. Lawrence Is, Ak.
USACE 1850574.260110
Aug. 27-29, 2001



3

Location USACOE

Project / Cl Northeast Cape, St.. Lawrence Is.
1850574.260120

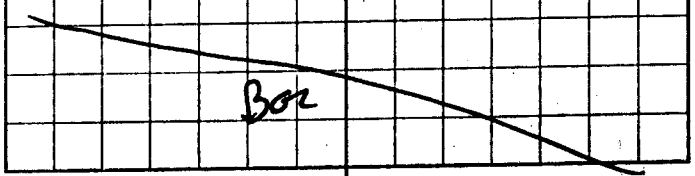
8-18-01 0745

Location #6, site 29
Suqi. R. Lagoon

photo #1, 2

Soak time ≈ 11 hrs
No applicable catch
Trap replaced w/ larger trap 1138

8-18 0815
Location #5, site 29
upper Suqi. R. lagoon
≈ 200 yds from Bridge
photo #3 (N. of Cargo Beach Rd.



Local
Proje

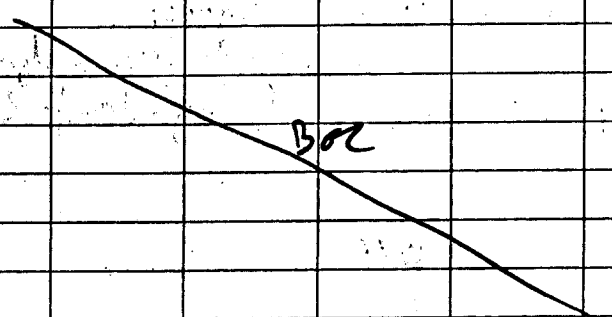
USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120 MK

8-18-01 0850 BOC
Location #1A site 29
≈ 100 yds from lake South
photo # 4, 5, 6

Largest fish of 23
D. Vavden 208 MM
≈ 12 hr. Soak

BOC
Location #1BA site 29
≈ 150 yds from lake South

Photo #7
set @ 0857 8-18-01



Location
Project / Clier

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120 MK

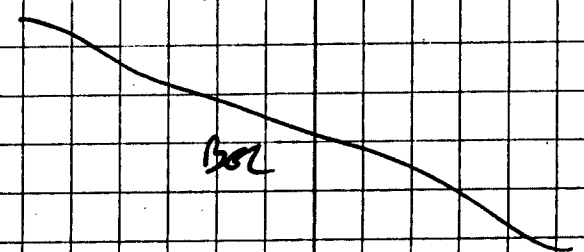
8-18-01 0913
Location #2

photo #8
≈ 12 hr. Soak

2 fish D. Vavden
largest 207 MM

Location #2A
set @ 0922

Photo #9



USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120 BCE

Location 3 8-18-01 0938
Sugi R. Site 29 ≈ 50 yds W. of Bridge
photo #10

1 male D. Varden ≈ 232 mm

Moved To
Location #3A 0945-Set
Sugi R. Site 29 ≈ 100 yds W. of Bridge

photo #11

BCE

USACOE
Location Northeast Cape, St.. Lawrence Is.
Project / C 1850574.260120 BCE

Blackfish - Site 28

photo #12

8-18-01 1007
Traps 1, 2, 3 empty

Re-Set 8-18-01
1020

Trap 4 1025 Blackfish
photo #13 3 fish ≈ 100g

Trap 5, 6 blackfish ≈ 332g
photo # 13, 14

Trap 6, 3 Blackfish
≈ 100g BCE

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

8-18-01 1123 Site 29

D. Vardeu trap # 4 - Ø fish

photo # 15

photo #16 Sugi. R. Berm

1138 Re-set trap, Location #6

1150 Set trap Location #7

photo #17

Bar

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

1300 Travel east to Taps R. Lagoon Ø Fish. Sportgear
Travel upstream 1.5 mi. Ø fish, sportgear

1630 Sugi. R. Lagoon Ø fish, Sportgear

1900 Travel West to unnamed river Ø frsh sportgear

2200 Return to Camp

Bar

Location
Project / C

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

8-19-01 0730
MWH Safety Meeting
=
0945 D.Vardon trap Sugi. R,
Location #1A Ø fish
Moved back to loc. #1 reset 0957
=
1012 Location #2A
1. Resident Male 285mm, 200g
Sexually Mature
photo #16 2. Female, Resident, Spawning
Colors 254 mm 170g
3. Resident Male 240mm, 125g
Sexually Mature
4, immature 218 mm 100g
5. Spawning Male, 215mm, 90g
6. Spawning Male 207mm, 90g
7. immature, 208mm, 80g
Smallest, 98 mm Total 28 fish

Locatio
Project

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

8-19-01
1047 Location #3A Ø fish
Reset
Location #3B, just W. of Cargo
Beach rd. Bridge over Sugi. R.
1056
photo #19
=
1119 Blackfish Location #4
Trap 4 Ø fish
Trap 4a 2 fish 125mm, 110mm
Total wt. 40g
Location #5
Trap 5 - 8 Fish
Trap 5a - 5 Fish, 4 Blackfish
#5, 138mm, 140mm, 223mm, 131mm, 125mm,
152mm, 110mm
#5a 125mm, 115mm, 107mm, 145mm
D.Vardon - released Total wt. 240g

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120 BE

8-19-01

Blackfish traps set Location #26 BE
traps 1-6 1146

1314 D.Varden trap
Location #5 upper Sneí.
Ø Fish

Trap pulled

50 ft gillnet set at Loc #5
photo #20

1405 D.Varden Loc #6
Ø Fish trap pulled

1409 D.Varden Loc #7
Ø Fish, trap pulled BE

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120 BE

8-19-01

1511 2 Traps Set @
Taps R. lagoon for Background
Sample

1533 1 trap set upstream
from lagoon in Taps R.

1640 - Bear guard kills reindeer
photo #21

1730 - Return to Camp.

BE

14

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

8-20-01 0803
D. Varden Location #1
51 fish 0 keepers
2 Arctic 218mm - 82 mm
Trap pulled

0827 D. Varden Location #2A
21 fish 0 keepers
222 mm - 87 mm
Trap pulled

0843 D. Varden Location #3B
4 Fish, 1 Keeper

1. 306 mm, 300g, Female
photo #22

190mm, 198mm, 204mm released

Trap re-set 0854

15

Location
Project / Cli

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1850574.260120

0905 8-20-01 Location #3C
Trap set Just East of Culvert
photo #23

0919 Blackfish trap Location
#6 Arctic

3 D. Varden, 137mm, 142mm, 155mm,
Released

Blackfish 128mm, 124mm, 132mm,
112mm, 119mm, 116mm, 124mm, 136mm,
128mm, 135mm, 110mm, 128mm, 117mm, 135mm,
133mm, 112mm, 129mm, 150mm, 102mm, 125mm,
142mm, 138mm, 118mm, 135mm, 140mm,
110mm, 128mm, 119mm, 122mm, 108mm,
120mm, 82mm

32 Fish Total wt 660g.

Locat
Proje

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

8-20-01 0932 Site 28

End of Blackfish Sampling

Location # 5

1047 - pull gillnet, 3 D.Vardeh
photo #24, 25

1. 455 mm Male, good condition
mid-eye to fork - 418 mm 800g

2. 470 mm, Male, good condition
mid-eye to fork - 430mm 1100 g

3. 480 mm, Male, good condition
mid-eye to fork - 434mm 1090g

Locatio
Project

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

8-20-01 1150
2 Traps pulled at Taps R. lagoon, Ø Fish.

1321 Taps. R. upstream Trap, Ø Fish

All Taps R. Traps removed.

1617 - Set Gillnet, Sevuk Lagoon

1630 - 1745
Fish Sevuk lagoon w/ sportgear
Ø Fish.

1915 - set gillnet - Taps. R. lagoon
2000 - 4 pink salmon Caught with gill net
(photo #26 photo #1 Cam. 2)

18

Loca
Proje

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

BOC

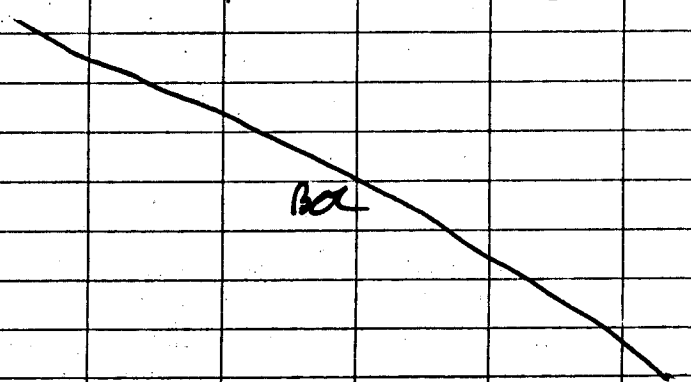
8-20-01 2015 Pink Salmon

1. Female 470mm, 988g
mid-eye to Fork 430

2. Male 445mm, 880g
mid-eye to fork 400mm

3. Female 463mm 1140g
mid-eye to fork 434

4. Male, lesion on belly, released



19

Locat
Proje

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Northeast Cape, St.. Lawrence Is.
1850574.260120

BOC

8-21-01 0753
D. Vardan Loc. #3B 0 Fish
Trap removed

Loc #3C 0757
4 Fish 0 keepers

0851 Sugi. Lagoon gillnet photo #2
8 Fish

	length mm	mid-eye to fork mm	wt grams
4. Female	455	430	980
5. Female	505	470	1220
6. Female	460	428	930
7. Male	415	377	648

4 D. Vardans Taken As USACE samples

BOC

20

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

8-21-01 1022 Taps. R. Lagoon
Background Samples
D. Vardeu
- Gillnet removed

Sex	length mm.	mideye-fork mm.	wt g
Male #1	465	420	980
Male #2	460	420	860
Female #3	490	464	1240

1140 Sevuk lagoon gillnet 0 Fish
gillnet removed.

BOC

21

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

sample #	species	Fieldbook #	Sex
01NE29FT101	D. Vardeu	#4	F
01NE29FT102	D. Vardeu	#5	F
01NE29FT103	D. Vardeu	#7	M
01NE29FT104	D. Vardeu	#6	F
01NE29FT105	D. Vardeu	#1	M
01NE29FT106	D. Vardeu	#2	M
01NE29FT107	D. Vardeu	#3 add. Sam.	M
01NE30FT101	D. Vardeu	#3	F
01NE30FT102	D. Vardeu	#2	M
01NE30FT103	D. Vardeu	#1	M
01NE30FT104	Pink	#2	M
01NE30FT105	Pink	#1	F
01NE30FT106	Pink	#3	F
01NE28FT101	Blackfish		
01NE28FT102	Blackfish		
01NE28FT103	Blackfish		

BOC

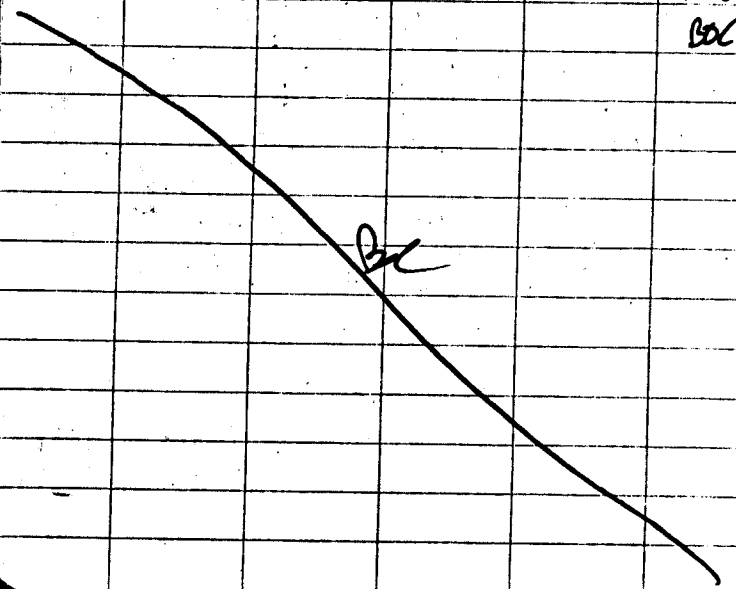
Location NEC/ St. Lawrence Island Date

Project / Client USACOE

1850874.260.120

8-22-01 0800 additional samples

	Sex	length mm.	mid-eye to Forkman	wt. g	@ WEIR
1	F	450	420	860 g.	108
2	F	440	415	900	109
3	F	420	395	780	110
4	F	480	455	1090	111
5	F	520	490	1320	112
6	F	445	420	830	113
7	M	430	394	680	114
8	F	480	450	1170	115
					BOC



Location NEC ST. Lawrence Date IS

Project / Client USACOE

1850574.260120

8-25-01

Site 9, WP1, Refusal 25x at gravel/rock surface. Surface water 110 taken in place of WP1 at site 9

	Temp °C	Cond.	NTU	DO mg/L	pH
BOC	11.0	3.0	0.9 BOC	11.0	6.8
	9.0		2.27		

Analytes DRO/RRO PCB PAH, GRO/BTEX + TAL Metals

WP 9-2 8-26-01 0903

	Temp °C	Cond	Turb NTU	DO mg/L	pH
BOC	11.0	70.0	9.28	11.0	6.4
	9.0				

Analytes DRO/RRO PCB PAH GRO/BTEX + TAL metals BOC

Location NEC ST. Lawrence Is. Date

Project / Client USACOE

1950574.26020

8-26-01 1103 Site 9 MW-3
Setting Sampler

1115 Site 9
MW102 jacked, Bentonite in
well WP104 dry at 3 ft, 6 ft,
Adjacent SW Sampled @1NE@9SW111
DRO/RRO, PAH, PCB, GRO/BTex + TAL metals

1150 Break for Lunch

1307 Continue Sampling Site 9 MW-3.

1315 Site 9 WP103 Dry after 24 hrs
adjacent SW sampled @1NE@9SW112
DRO/RRO, PAH, PCB, GRO/BTex, + TaL metals

Temp °C	Con. ms/cm	Turb. NTU	D.O. mg/L	pH
7.0	30.0	1.47	11.0	7.2

Location NEC ST. Lawrence Is. Date

Project / Client USACOE

1950574.26020

1351 Site 9 SW111

Temp °C	Con. ms/cm	Turb. NTU	DO mg/L	pH
10.0	31.0	3.72	11.0	7.0

1406 Site 9 MW-403

Temp °C	Con. ms/cm	Turb. NTU	DO mg/L	pH
5.5	148.0	Not readable	9.7 not Readable	7.1

1430 - 1600 Load plane, Doug
MELISSA + Johanna depard

1620 Site 7, WP 7-3

Sample for DRO/RRO PCB, PAH
GRO/BTex, TAL Metals

26

Location NEC ST. Lawrence Date

Project / Client USACOE

1850574. 260120

8-26-01 1845

initializing survey equipment

① South end of Runway

② North end of Runway

③ Lounsbury LS-8535 near former Tank pads, site 28

2027 Site 24

Ø1NE24SW/SD114

Ø1NE24SD115

Reference Taken MW 24-2 and SE Corner of Receiver Bldg.

2052

Ø1NE30SS103

S. of Road to Site 24

Done

27

Location NEC ST. Lawrence Date

Project / Client USACOE

1850574, 260120

8-27-01 0904

Ø1NE33SS101

Ø1NE33SS102

Ø1NE33SS103

Reference Taken At NW + NE Corners of Upper Tram Terminal

0920 Ø1NE34SS103

Ø1NE34SS102

Ø1NE34SS101

Reference taken at YRS GRID M5-M6 1990

Top camp / Drum Dump field

0950 Ø1NE34SS110

Ø1NE34SS109

Ø1NE34SS108

Ø1NE34SS107

Ø1NE34SS106

Ø1NE34SS105

Location NEC St. Lawrence Date

Project / Client USACOE

1850574. 260120

8-27-01

1005 01NE34SS104

Reference Talten at SW Corner of upper quarters bldg. and Re-bar Cap URS CP-7 1990 near top of road to upper camp.

Reference at URS CP-6 1990 Lower Tram terminal site 32

1100 01NE32SS101
01NE32SS102
01NE32SS103
01NE32SS104
01NE32SS105
01NE32SS122
01NE32SS121
01NE32SW101

Reference URS Grid A-4 1990 (cap) SW

Location NEC St. Lawrence Date

Project / Client USACOE

1850574. 260120

8-27-01 Site 32

Reference URS Grid A-1 1990

Re-Bar/Cap set 4469-S GPS-1 2001

≈100FT upgradient of Lower terminal Building

Reference at SE Corner of Lower tram Bldg

=

1300 Continue sampling WP7-101

1411 Sample WP 6-2 DRO/RRO

1430 Sample WP 7-3 DRO/RRO, PCB, PAH, GRO/BTEX TAL metals

30

Location NEC st. Laurence Date

Project / Client USACOE

1850574. 260120

8-27-01

1445 Wp-102 site 7 dry after 48 hrs. - pit dug 36 inches to water and allowed to fill

1520 Background Wp 30-2 East of Cargo Beach Road dry after 48 hrs pit dug 24 inches and allowed to fill

1600 Wp 7-103 1/2 litre after 48 hrs pit dug 40 inches and allowed to fill

1700 Sampling WP/Pit 7-102 DRO/RRO, PCB, PAH, GRO/BTEX ~~Field duplicate Location (PAH, GRO/BTEX~~ ~~QA Location (PAH) (PAH GRO/BTEX~~ ~~PAH, GRO/BTEX~~ BGL

31

Location NEC st. Laurence Date

Project / Client USACOE

1850574. 260120

8-27-01

Field Duplicate Location PAH, VOC

QA Location PAH, VOC.

1800 Complete Wp/pit 7-102 replace soil

1915 Survey Site 30 @ NE30CD101

1926 @ NE21SS173
@ NE21SS172
@ NE21SW/SD114
@ NE21SW/SD113
@ NE21SS/SB171
@ NE21SS/SB170
@ NE21SS/SB ~~172~~ 169

BGL

32

Location NEC St. Lawrence

Project / Client USACOE

1850574.260120

8-27-01 1952 Site 16

01NE16MW03

01NE16MW01

01NE16MW02

01NE16SS165

01NE16SS166

Site 14

2013 01NE14SS101

01NE14SS102

01NE14SS103

33

Location NEC St. Lawrence

Project / Client USACOE

1850574.260120

8-28-01 0840 Site 7

Finish sampling Wp 7-101

0915 Sample Wp/pit 103

DRO/RRO PCB, PAH, TAL metals

Gro/BTEX

Replace soil

0930 Background Wp 30-102

Sampled for DRO/RRO, PAH, Sulfate, Alkalinity, VOCs, Methane, Ethane, +Ethene, +GRO

End of Notes

William A. Scammell

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Project

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PAGE	REFERENCE	DATE
	Bill O'Connell	
	Don Maloney	
	Northeast Cape	
	St. Lawrence Is, Alt,	
	9-24-01 to 9-25-01	
	1850574.260120	
	Pesticide Sampling	
	Mod. #6	
	USACE	

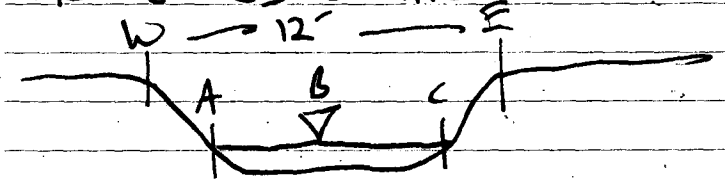
USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120 BOC

9-24-01 site 16 1100
Surface soil sampling
Same locations as 801

previous Sample #	Pesticide Sample #
ØINE16 SS 165	ØINE16 SS 167
ØINE16 SS 166	ØINE16 SS 168

Building removed, MW 16-3 damaged, unusable

Site 28 CS-8 1110



Point	Depth	previous suffix ØINE28....	Pesticide Sample #
A	6"	SD 153	ØINE28SD183
A	18"	SD 154	ØINE28SD184
B	6"	SD 155	ØINE28SD185
B	18"	SD 156	ØINE28SD186
C	18"	SD 158	ØINE28SD185 BC

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120 BOC

9-24-01
Duplicate taken of SD 185
Sample # ØINE28SD285

CS 7, 9 + 10 Sampled at center of cross section, 6" deep

CS	Previous Sample #	Pesticide Sample #
7		ØINE28SD190
9		ØINE28SD191
10		ØINE28SD192
10-Dup.		ØINE28SD292

CS-11 1300

Samples taken at either end of cross section, 6" deep

Previous Sample #	Pesticide Sample #
ØINE28SD171	ØINE28SD189
ØINE28SD176	ØINE28SD188

BC

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

9-24-01 1420 Site 6

⊕ Wp6-3
129.7 ft
⊕ Wp6-1 (Drg)
58.9 ft
⊕ Wp 6-2

1437 Site 7

⊕ MW7-4
164.10
× SS-127
102.20 ft
× SS126

Road

BOC

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

9-24-01 1513 Site 28

CS-8 West
× 42.50 ft × CS-7 West
111.90 ft
×
CS-8 East

BOC

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August 17 – 26
USACE
Northeast Cape, St. Lawrence Is.
MWH 1950574.260120
Johanna Dreher

4 5/8" x 7" - 48 Numbered Pages

USACOE 1850574.
Northeast Cape, St Lawrence Island 260120
August 17, 2001

~~Arr~~ JJD

8:00 Start of day
Travel to St. Lawrence Island
Anchorage - Kotzebue - Nome - St. Lawrence Island

Unload plan - Sort Supplies

2:30 Safety Meeting
3:00 UA pack - set up office
Organize supplies
5:15 - 5:45 ATV Training

5:45 - 6:45 Dinner

6:45 prepare Sample bottles for Drainage Basin

8:45 End of Day

Johanna Dicker

JJD

Northeast Cape USACOE 1850574.260120
August 18, 2001

7:00 - 7:15 Safety Meeting

7:15 - 7:30 tailgate Meeting

7:30 - 12:45 prepare sample bottles + Coolers for site 6, 7, & 28 x-sections 2, 3, & 4

12:45 - 1:15 Lunch

1:15 - 5:45 prepare sample bottles for Site 28 - Cross sections 5, 6 and began working on 7

5:45 - 6:15 Dinner

6:15 - 7:00 prepare Sample Jars for Cross section 7 and most of 8

7:00 - 8:00 Tour of sites @ NEC
Clean up jars + labels

8:20 End of work day

Johanna Dicker

JJD

1850574.260120 USACOE
Northeast Cape, St. Lawrence Island
August 19, 2001

7:30-8:10 Safety / Planning meeting
Bonnie, Doug, Melissa, Eileen,
Bill, & Johanna

Work on Sample bottles for x-section 8

8:30-9:00 Breakfast

9:00-12:15 prepare Sample bottles for
x-sections
finish 8, completed 9 & 10,
Start 11

12:15-12:45 Lunch

12:45-17:45 Prepare
Sample bottles for x Section
11 + 12

Sample w/ Bonnie at Site 7
Collect Samples:
01 NE 07 SW 104
01 NE 07 SD 104
01 NE 07 SW 105
01 NE 07 SD 105

1850574.260120 Northeast Cape USACOE
1745-1815 Dinner 8-19-01

1815-2130 work on preparing labels
pack Samples for Shipping

2130 End of Day

Johanna J. Dreher

Northeast Cape USACOE 1850574.260120

August 20, 2001

700 Nugget Safety Meeting
MWH Safety Meeting

Work on site 29 Sample labels

pack cooler for shipping

prepare Site 29 SW & SD labels

1200 lunch

1230 prepare site 29 labels
prepare sample bottles for Site 29

~~5~~ 1745 Dinner
~~1915~~ JD

~~1815~~ prepare to Sample w/ Doug @
JD 1815 → Site 29

1925 photograph Sample location

Clear H_2O, no sheen or odor JD

Northeast Cape USACE 1850574.260120

Turb	E.C.	Temp	pH
			8-20-01
1.73 NTU	233 µS	8.3°C	8.3

DO
11 mg/L (HACH)

1940 Collect SW 117 8-20-01

Type	ID	Time
primary:	01 NE 29 SW 117 & MS/MSD	1940
duplicate:	01 NE 29 SW 217	1945
triplicate:	01 NE 29 SW 317	~~1950~~ JD

Parameters -
- DRO/RRO
- GRO/BTEX
- PCB
- PAH SIM
- TAL Metals

2015 return to Camp
drop of samples @ Conex
put away equipment JD

8-20-01
8 PM
2030 Done

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USACOE
1850574. 260120
August 21, 2001

Northeast Cape

0700 Nugget Safety Meeting
0730 MWH Safety Meeting

0745 prepare for Sample Collection at Site 29

0815 arrive at Sample location Suqi River Cross Section (CS) 4 Measure CS-4

point	distance from S	118' H_2O depth	tape color
A	15'	0'	green
B	44'	2½'	Blue
C	102	0'	green

0835 photograph CS-4 location

C4 Sample Collection

parameters: DRO/RRO, PAH, PCB
Pb Zn Cr, TOC

USACOE
08-21-01 Northeast Cape, St.. Lawrence Is.
1850574.260120

0900 CS-4a
primary : 01 NE 29 SD 123

depth : 6 inches

parameters : DRO/RRO, PCB, PAH, PbZnCr, TOC

0910 Collect SD CS-4b
depth : 3ft
parameters : DRO/RRO, PCB, PAH, PbZnCr, TOC

primary : 01NE 29 SD 124

0940 Collect SD CS-4c
depth : 1.7 ft
parameters: DRO/RRO, PCB, PAH, PbZnCr, TOC

USACOE
Northeast Cape 1850574. 260120 08-21-01

Time	Type	ID	DATE
0950	primary :	01 NE 29 SD 125 & MS/MSD	08-21-01
(0955)	duplicate :	01 NE 29 SD 225	08-21-01
~~(1000)~~	triplicate :	01 NE 29 SD 325	08-21-01
~~(1005)~~	COE Split :	01 NE 29 SD 425	08-21-01

1025 Collect SD 128
depth : 1.7 ft
parameters: DRO/RRO, PAH, PCB, GRO, BTEX, TAL metals

Time	Type	ID	Date
1025	primary :	01NE29SD 128	08-21-01

1040
~~1035~~ photograph Sample location

1045 Collect SD 129
depth : 1.7 ft
parameters: DRO/RRO, PAH, PCB, GRO, BTEX, TAL Metals

Time	Type	ID	Date
1045	primary	01NE29SD129	08-21-01

USACOE

8-21-01 Northeast Cape 1850574.260120

1055 Photograph Sample location
SD 129

1100 Return to Camp
drop off samples from
CS-4 & SD 128, 129

1200 lunch

1230 Organize Sample notes

1300 prepare Samples for Shipping

1810 Dinner

1900 prepare Samples for Shipping

2000 End of Day

Johanna Dicken

JD

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

August 22, 2001

7:00 Safety Meeting : MWH
Nugget not working today
High Wind

720 work on Sample Counts
fill out field forms

1215 Lunch

1245 prepare to pack Coolers
for Shipping

1800 Dinner

1835 pack Cooler for Shipping

1930 prepare cooler for plane

2030 End of Day

Johanna Dicken

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

August 23, 2001

0700 Nugget Construction Safety meeting

MWH Safety Meeting

0745 work on CofC

prepare to sample w/ Melissa @ site 16

0830 load equipment + Sample bottles

0900 leave camp for site 16 with Melissa Markell

0915 Arrive at site locate wells
lots of connexes are staged at site

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1850574.260120

8-23-01

0920 set up at well 16-2 monitoring well; frost jacked above protective casing

take measurements

0935 purge MW 16-2

no sheen or odor; water silty

1005 Collect Samples using disposable bailer; parameters: SVOC
01NE16GW102

1015 photograph site

1020 Setup at MW 16-3
well condition is good
take measurements

1030 purge well

NO sheen or odor; Silty at first then clears

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1850574.260120

1045 Collect Sample 01NE16GW103 8-28-01
using disposable bailer; parameters: SVOC
1100 photograph site

1105 Set up at MW 16-1
take measurements
no sheen or odor

1115 purge MW 16-1

1135 Collect Sample 01NE16GW101 Primary: (1140) duplicate: 01NE16GW201, (1145) MS and triplicate 01NE16GW301
using disposable bailer; parameters: SVOC
Photograph site, return to camp give samples to Silum.
1200 Break for lunch

12:30 begin packing coolers
hoping for a plane

1800 Break for Dinner

1840 Back to packing coolers

2100 put cooler on the runway

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1850574.260120

8-28-01

2100 End of Day

Johnson Dicks

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

August 24, 2001

0700 Nugget Construction Safety meeting
MWH Safety Meeting

0725 pack coolers for plane this morning
CofC 37-46
did not Ship COC 44

1045 load plane w/ Coolers

1100 Back to preping Samples for Shipping
wipe of bottles, Clean + wipe out coolers

1215 Break for lunch

1245 pack coolers

JLP

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1850574.260120

8-24-01

1800 Break for Dinner

1840 pack coolers
w/ help from Bill & Melissa

2030 Stop - End of Day

Trip blanks used:

01NE00TB 110	Water	QA	1900
01NE00 TB 111	Soil	primary	1900
01NE00 TB 112	Water	QA	1900
01NE00 TB 113	Water	primary	1900
01NE00 TB 109	Soil	primary	1900

Johanna L. Dehn

↓

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

August 25, 2001

0700 Nugget Safety Meeting
MWH Safety Meeting

0745 go to Conney to pack Coolers

1215 Break for Lunch

1245 Pack Coolers

1800 Break for Dinner

1840 Pack Coolers
prepare for Shipping

2210 End of Day

Trip Blanks used
01NE00TB106 - QA Soil 1900
01NE00TB 114 Soil primary 1900
01NE00TB 115 Water Primary 1900
Johanna Dicks

USACOE
Northeast Cape, St.. Lawrence Is.
1850574.260120

August 26, 2001

0700 Nugget Safety Meeting
MWH Safety Meeting

0730 give Shipping papers to Bonnie (CoC's & Copies of airbills)

0815 begin icing coolers and preparing to seal coolers

1215 Lunch Break

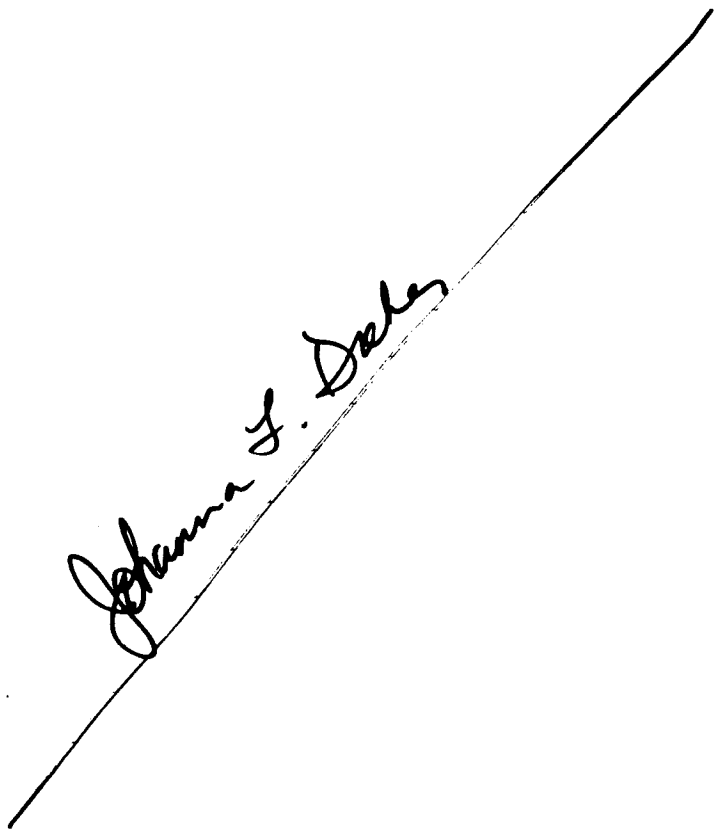
1245 prepare samples for Shipping
Seal Coolers

1545 Leave Northeast Cape

1645 arrive in Nome

1930 leave Nome

2330 Arrive in Anchorage

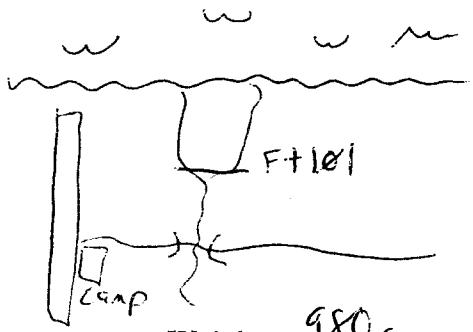


FIELD NOTE FORM
FISH TISSUE COLLECTION
NEC 2001 BSP

Location: Sagi. R. lagoon Sample ID: 01NE29Ft101

Species: D. Varden Sex: F

Location Map:



Length: 455mm Weight: 980g

Sampler: O'Connell Date: 8-21-01 Time: 0850

Remarks: 3 samples = eggs, head, fillet

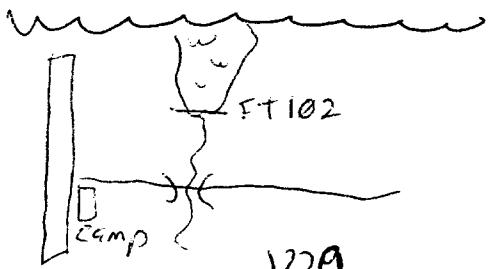
PAH, PCBs, Lipids, Metals

FIELD NOTE FORM
FISH TISSUE COLLECTION
NEC 2001 BSP

Location: Sagi. R. lagoon Sample ID: 01NE29Ft102

Species: D. Vardeni Sex: F

Location Map:



Length: 505mm Weight: 1220 g

Sampler: OConnell Date: 8-21-01 Time: 0850

Remarks: 3 samples = eggs, head, fillet

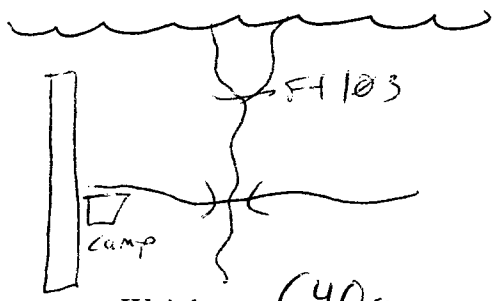
PAH, PCBs, Lipids, Metals

FIELD NOTE FORM
FISH TISSUE COLLECTION
NEC 2001 BSP

Location: Sagi. R. lagoon Sample ID: 01NE29 FT103

Species: D. Vardeh Sex: M

Location Map:



Length: 415mm Weight: 640g

Sampler: OConnell Date: 8-21-01 Time: 0850

Remarks: 2 samples = Fillet, Homogenized remains

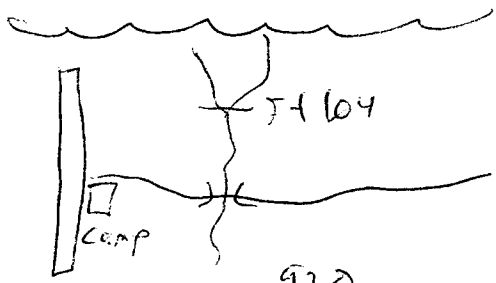
PAH, PCBs, Lipids, metals

FIELD NOTE FORM
FISH TISSUE COLLECTION
NEC 2001 BSP

Location: Sagi. R. lagoon Sample ID: 01NE29F+104

Species: D. Varden Sex: F

Location Map:



Length: 450mm Weight: 930g

Sampler: OConnell Date: 8-21-01 Time: 0850

Remarks: Sample = Fillet only

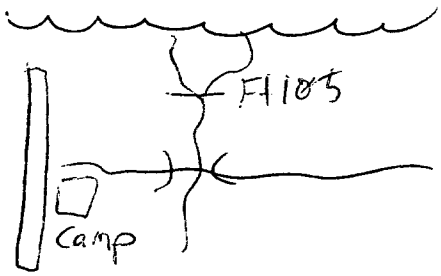
PAH, PCB, Lipids, metals

FIELD NOTE FORM
FISH TISSUE COLLECTION
NEC 2001 BSP

Location: Sugi, R. lagoon Sample ID: 01NE29FH105

Species: D. Vardeni Sex: M

Location Map:



Length: 418 mm Weight: 800 g

Sampler: OConnell Date: 8-20-01 Time: 1047

Remarks: Sample = Fillet only

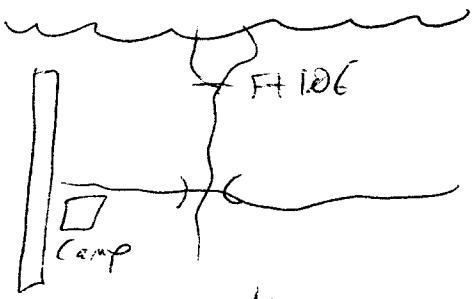
PAH, PCB, Lipids, Metals

FIELD NOTE FORM
FISH TISSUE COLLECTION
NEC 2001 BSP

Location: Sugi. R. lagoon Sample ID: 01NE29FT106

Species: D. Varden Sex: M

Location Map:



Length: 430mm Weight: 1100g

Sampler: OConnell Date: 8-20-01 Time: 1047

Remarks: Sample = Fillet only

PAH, PCBs, Lipids, Metals

FIELD NOTE FORM
FISH TISSUE COLLECTION
NEC 2001 BSP

Location: Sugi. R. lagoon Sample ID: 01NE29FH107

Species: D. Vardeni Sex: M

Location Map:



Length: 480mm Weight: 1090 g

Sampler: OConnell Date: 8-20-01 Time: 1047

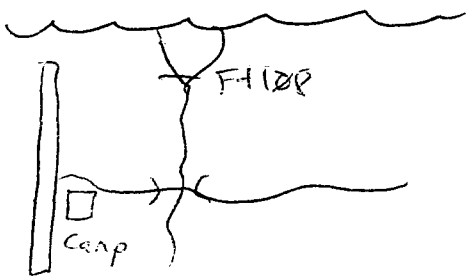
Remarks: Samples - Fillet, Homogenized Remains

FIELD NOTE FORM
FISH TISSUE COLLECTION
NEC 2001 BSP

Location: Sagi. R. Lagoon Sample ID: ØA/NE29FH108

Species: D. Varden Sex: F

Location Map:



Length: 450mm Weight: 860g

Sampler: OConnell Date: 8-20-01 Time: 1047

Remarks: 2 samples = eggs, Fillet

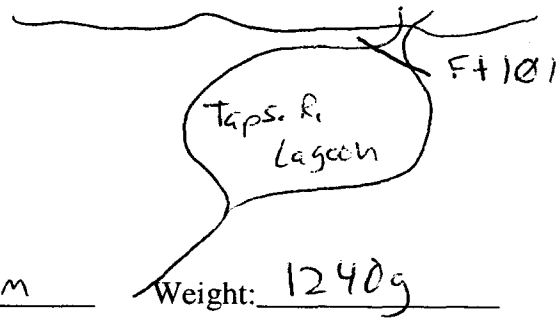
PAH, PCBs, Lipids, metals

FIELD NOTE FORM
FISH TISSUE COLLECTION
NEC 2001 BSP

Location: Taps. R. lagoon Sample ID: 01NE30Ft101

Species: D. Vardon Sex: F

Location Map:



Length: 490mm Weight: 1240g

Sampler: OConnell Date: 8-21-01 Time: 1022

Remarks: 3 samples = eggs, head, fillet

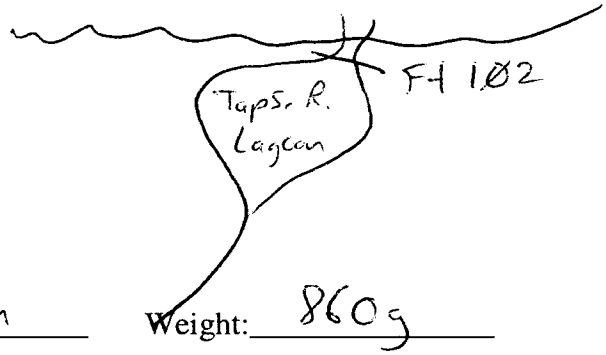
PAH, PCBs, Lipids, metals

FIELD NOTE FORM
FISH TISSUE COLLECTION
NEC 2001 BSP

Location: Taps. R. Lagoon Sample ID: 01NE3.0FH102

Species: D. Vardeni Sex: M

Location Map:



Length: 460mm Weight: 860g

Sampler: OConnell Date: 8-21-01 Time: 1022

Remarks: 2 samples = fillet, homogenized remains

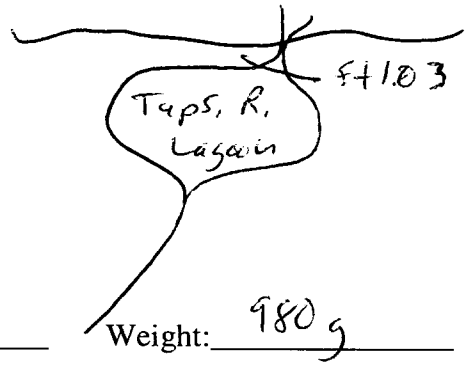
PAH, PCB, Lipids, metals

FIELD NOTE FORM
FISH TISSUE COLLECTION
NEC 2001 BSP

Location: Taps. River lagoon Sample ID: 01NE30Ft103

Species: D. Vardeni Sex: M

Location Map:



Length: 465mm Weight: 980g

Sampler: OConnell Date: 8-21-01 Time: 1022

Remarks: Fillet only

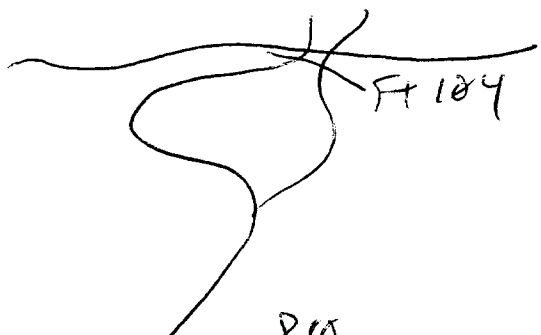
PAH, PCB, Lipids, metals

FIELD NOTE FORM
FISH TISSUE COLLECTION
NEC 2001 BSP

Location: Taps. R. Lagoon Sample ID: 01NE30F+104

Species: Pink Salmon Sex: M

Location Map:



Length: 445mm Weight: 880g

Sampler: OConnell Date: 8-20-01 Time: 2015

Remarks: 2 samples = head, homogenized remains

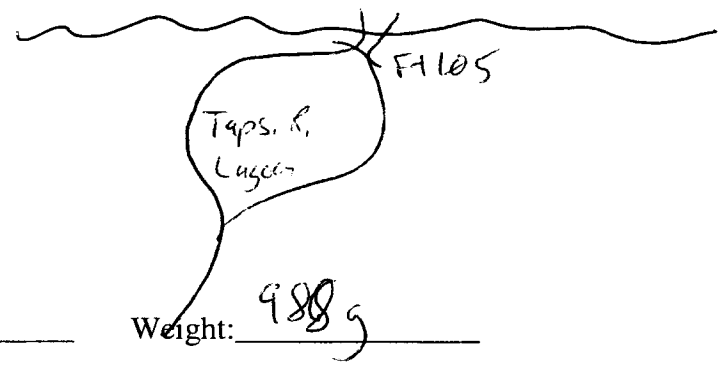
PAH, PCB, Lipids, Metals

FIELD NOTE FORM
FISH TISSUE COLLECTION
NEC 2001 BSP

Location: Taps. R. Lagoon Sample ID: 01NE30FT105

Species: Pink Salmon Sex: F

Location Map:



Length: 470mm Weight: 988g

Sampler: OConnell Date: 8-20-01 Time: 2015

Remarks: 3 Samples - eggs, fillet, remains

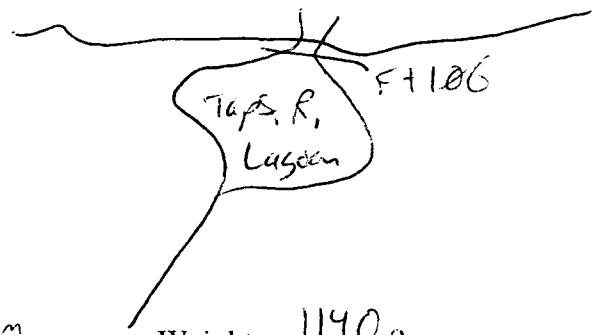
PAH, PCB, Lipids, metals

FIELD NOTE FORM
FISH TISSUE COLLECTION
NEC 2001 BSP

Location: Taps R. Lagoon Sample ID: ØINE30F+106

Species: Pink Salmon Sex: F

Location Map:



Length: 463mm Weight: 1140g

Sampler: OConnell Date: 8-20-01 Time: 2015

Remarks: Fillet only

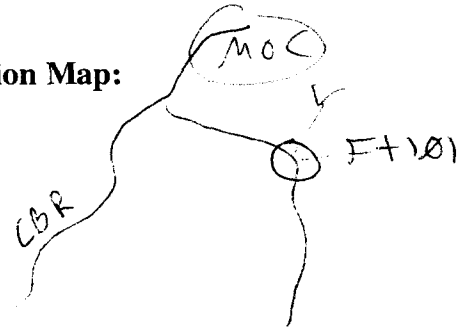
PAH, PCB, Lipids, metals

FIELD NOTE FORM
FISH TISSUE COLLECTION
NEC 2001 BSP

Location: Site 28 Sample ID: 01NE28FT101

Species: blackfish Sex: NA

Location Map:



Length: NA Weight: NA

Sampler: OConnell Date: 8-19-01 Time: 1119

Remarks: Homogenized Sample Containing 8-10 individual fish

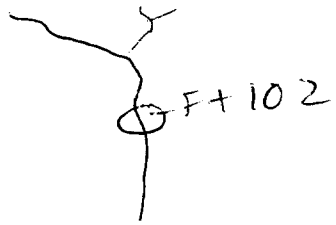
PAH, PCB, Lipids, metals

FIELD NOTE FORM
FISH TISSUE COLLECTION
NEC 2001 BSP

Location: Site 28 Sample ID: 01NE28FT102

Species: blackfish Sex: NA

Location Map: MOC



Length: NA Weight: NA

Sampler: O'Connell Date: 8-19-01 Time: 1119

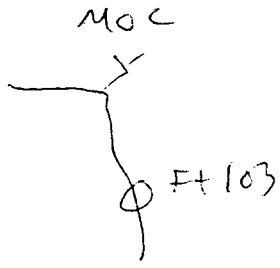
Remarks: Homogenized Sample Containing 8-10 individual fish
PAH, PCB, Lipids, metals

FIELD NOTE FORM
FISH TISSUE COLLECTION
NEC 2001 BSP

Location: Site 28 Sample ID: 01NE28Ft103

Species: blackfish Sex: NA

Location Map:



Length: NA Weight: NA

Sampler: OConnell Date: 8-19-01 Time: 0919

Remarks: Homogenized sample made of 8-10 individual fish.
PAH, PCB, Lipids, metals

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number:	Well ID:
1850574.260120	Wp 3-2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-25-01 | **Time:** 1015 | **Sampler(s):** Bonnie McLean, Melissa Martell

Well type: (Well Point) Other:

Well condition: (New)

Protective casing height (ft ags): None

Steel casing height (ft ags):

Well depth ~~below top of steel~~ (ft): Dt 2,93 bgs

Water level ~~below top of steel~~ (ft): 1,48 bgs

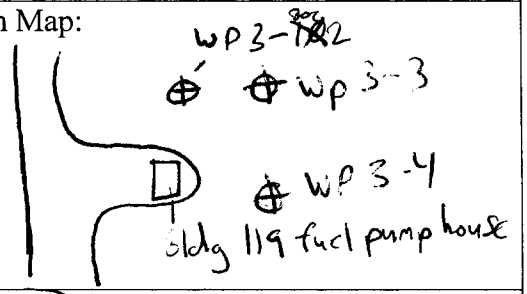
Water column height (ft): 1,45

Steel casing ID (in): 2"

Sampling Method/Equipment:
New disposible teflon ¾" bailer

~~**Minimum purge volume calculation:**~~
One well volume (gal) = ~~$0.163A(B/2)^2 = C$~~

Location Map:



Sheen: (none) slight moderate abundant

Odor: (none) slight moderate strong

Time		Temperature °C	pH pH units	Conductivity umhos/cm	Comments:
0950		7.1	6.15	212	Silty
~~1130~~ BC					

Time: 1015 **Sample ID:** Ø1NE Ø3 WP 1 Ø2 (primary) dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time:			N/A		
Time:					
Time:					

Laboratory Tests: (DRO RRO) GRO BTEX VOC PAH PCB
Alkalinity Sulfate Methane/Ethane/Ethene

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number: 1850574.260120

Well ID: Wp 3-3

Project: NEC 2001 Phase III RI

Client: USAED

Date: 8-25-01 **Time:** 1045 **Sampler(s):** Bonnie McLean/Melissa Markell

Well type: (Well Point) Other:

Well condition: (New)

Protective casing height (ft ags): None

Steel casing height (ft ags):

Well depth ~~below top of steel~~ (ft): Dt 2,84 bgs

Water level ~~below top of steel~~ (ft): 0,2 bgs

Water column height (ft): 2,52

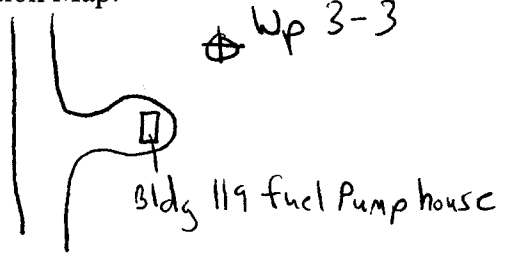
Steel casing ID (in): 2"

Sampling Method/Equipment:
New disposible teflon ¾" bailer

~~Minimum purge volume calculation:~~

One well volume (gal) = $0.163A(B/2)^2 = C$

Location Map:



Sheen: (none) slight moderate abundant

Odor: (none) slight moderate strong

Time		Temperature °C	pH pH units	Conductivity umhos/cm	Comments:
1130		6.15	6.15	145	Silty

Time: 8-25-01-1130 **Sample ID:** Ø1NE Ø3WP1Ø3 (primary) dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time:			N/A		
Time:					
Time:					

Laboratory Tests: (DRO) (RRO) GRO BTEX VOC PAH PCB
Alkalinity Sulfate Methane/Ethane/Ethene

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number:	Well ID:
1850574.260120	Wp 3-34

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-25-01 | **Time:** 1115 | **Sampler(s):** Bonnie McLean/Melissa Markell

Well type: (Well Point) Other:

Well condition: (New)

Protective casing height (ft ags): None

Steel casing height (ft ags):

Well depth ~~below top of steel~~ (ft): Dt 2,93 bgs

Water level ~~below top of steel~~ (ft): 1,67 bgs

Water column height (ft): 1,26

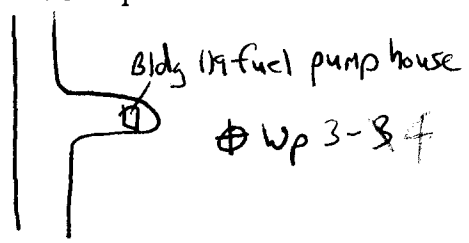
Steel casing ID (in): 2

Sampling Method/Equipment:
New disposible teflon ¾" bailer

~~**Minimum purge volume calculation:**~~

One well volume (gal) = $0.163A(\cancel{B/2})^2 = C$

Location Map:



Sheen: (none) slight moderate abundant

Odor: none slight moderate strong

Time		Temperature °C	pH pH units	Conductivity umhos/cm	Comments:
1145		5,2	6,4	150	Silty

Time: 1145 **Sample ID:** Ø1NE Ø3WP10~~4~~ (primary) dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time:			N/A		
Time:					
Time:					

Laboratory Tests: (DRO) (RRO) GRO BTEX VOC PAH PCB
Alkalinity Sulfate Methane/Ethane/Ethene

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number:	Well ID:
1850574.260120	Wp 4-2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-25-01 | **Time:** 1200 | **Sampler(s):** Bonnie Mckeen/Melissa Martell

Well type: (Well Point) Other:

Well condition: (New)

Protective casing height (ft ags): None

Steel casing height (ft ags): 3,32

Well depth below top of steel (ft): Dt 6,25

Water level below top of steel (ft): 4.5

Water column height (ft): 1,75

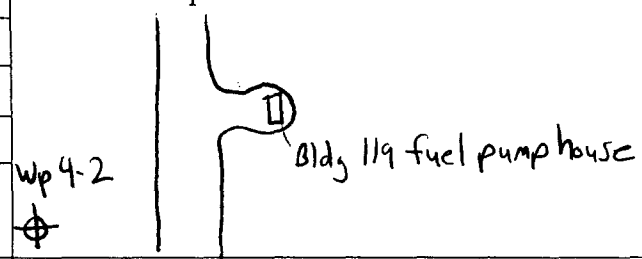
Steel casing ID (in): 2

Sampling Method/Equipment:
New disposible teflon ¾" bailer

~~Minimum~~ purge volume calculation:

One well volume (gal) = ~~0.163~~A$(B/2)^2$ = C

Location Map:



Sheen: (none) slight moderate abundant

Odor: none slight moderate strong

Time		Temperature °C	pH pH units	Conductivity umhos/cm	Comments:
1350		~~6.2~~ 2.0	6,2	165	Silty
	1350				

Time: ~~8~~ 1200 | **Sample ID:** Ø1NE Ø4WP1Ø2 (primary) dup triplicate ms/msd

Time: | **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Time: | **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time:			N/A		
Time:					
Time:					

Laboratory Tests: (DRO) (RRO) GRO BTEX VOC PAH PCB
Alkalinity Sulfate Methane/Ethane/Ethene

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number:	Well ID:
1850574.260120	Wp 4-3

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-26-01 | **Time:** 1345 | **Sampler(s):** Bonnie Mclean/Melissa Markell

Well type: (Well Point) Other:

Well condition: (New)

Protective casing height (ft ags): None

Steel casing height (ft ags):

Well depth below top of steel (ft): Dt 6,35

Water level below top of steel (ft): 3,45

Water column height (ft): 2,9

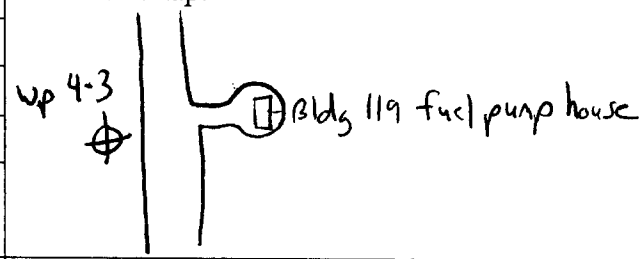
Steel casing ID (in): 2"

Sampling Method/Equipment:
New disposible teflon ¾" bailer

~~Minimum purge volume calculation:~~

One well volume (gal) ~~= 0.163A(B/2)²~~ = C

Location Map:



Sheen: (none) slight moderate abundant

Odor: none slight moderate strong

Time		Temperature °C	pH pH units	Conductivity umhos/cm	Comments:
1345		5,0	6,2	195	Very Silty

Time: 1345	**Sample ID:** Ø1NE Ø4WP1Ø3 (primary) dup triplicate ms/msd
Time:	**Sample ID:** Ø1NE _____ primary dup triplicate ms/msd
Time:	**Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time:			N/A		
Time:					
Time:					

Laboratory Tests: (DRO) (RRO) GRO BTEX VOC PAH PCB
Alkalinity Sulfate Methane/Ethane/Ethene

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number: 1850574.260120

Well ID: Wp 4-4

Project: NEC 2001 Phase III RI

Client: USAED

Date: 8-25-01

Time: 1500

Sampler(s): Bonnie Mclean/Melissa Markell

Well type: (Well Point) Other:

Well condition: (New)

Protective casing height (ft ags): None

Steel casing height (ft ags): 3,26

Well depth below top of steel (ft): Dt 6,25

Water level below top of steel (ft): 3,49

Water column height (ft): 2,76

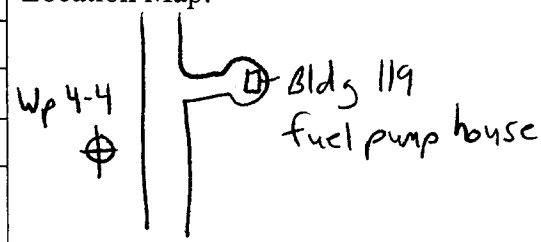
Steel casing ID (in): 2

Sampling Method/Equipment:
New disposible teflon ¾" bailer

Minimum purge volume calculation:

One well volume (gal) = $0.163A(B/2)^2 = C$

Location Map:



Sheen: none slight moderate abundant

Odor: none slight moderate strong

Time		Temperature °C	pH pH units	Conductivity umhos/cm	Comments:
1340		5.0	6.1	175	Very silty

Time: ~~1500~~ 1340 **Sample ID:** Ø1NE Ø4WP1Ø4 (primary) dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time:			N/A		
Time:					
Time:					

Laboratory Tests: (DRO) (RRO) GRO BTEX VOC PAH PCB
Alkalinity Sulfate Methane/Ethane/Ethene

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number: 1850574.260120

Well ID: Wp 6-2

Project: NEC 2001 Phase III RI

Client: USAED

Date: 8-27-01 **Time:** 1411 **Sampler(s):** William O'Connell

Well type: (Well Point) Other:

Well condition: (New)

Protective casing height (ft ags): None

Steel casing height (ft ags): 2,31

Well depth below top of steel (ft): Dt ~~6.10~~ NA

Water level below top of steel (ft): ~~6.12~~ NA

Water column height (ft):

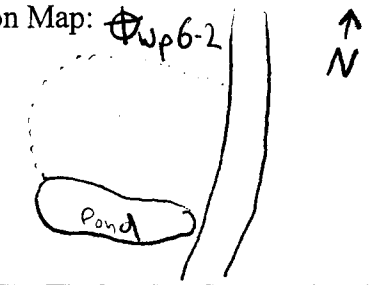
Steel casing ID (in): 2

Sampling Method/Equipment:
New disposible teflon ¾" bailer

Minimum purge volume calculation:

One well volume (gal) = $0.163A(B/2)^2 = C$

Location Map:



Sheen: (none) slight moderate abundant

Odor: (none) slight moderate strong

Time		Temperature °C	pH pH units	Conductivity umhos/cm	Comments:
1411		5.5	6.6	125	

Time: 1411 **Sample ID:** Ø1NE Ø6WP1Ø2 (primary) dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time: 1411	1000+		N/A		8.2
Time:					
Time:					

Laboratory Tests: (DRO) (RRO) GRO BTEX VOC ~~(PAH)~~ ~~(PCB)~~ Boc
Alkalinity Sulfate Methane/Ethane/Ethene

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number:	Well ID:
1850574.260120	Wp 6-3

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-25-01 | **Time:** 1700 | **Sampler(s):** Bonnie McLean/Melissa Markell

Well type: (Well Point) Other:

Well condition: (New)

Protective casing height (ft ags): None

Steel casing height (ft ags): 2.03

Well depth below top of steel (ft): Dt NA

Water level below top of steel (ft): NA

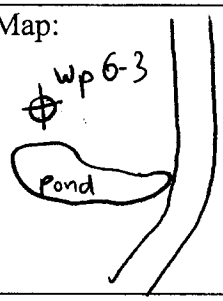
Water column height (ft): NA

Steel casing ID (in): 2

Sampling Method/Equipment:
New disposible teflon ¾" bailer

Minimum purge volume calculation:
One well volume (gal) = $0.163A(B/2)^2 = C$

Location Map:



Sheen: none slight moderate abundant

Odor: none slight moderate strong

Time		Temperature °C	pH pH units	Conductivity umhos/cm	Comments:
1050		5.9	6.2	131	

Time: 1700 **Sample ID:** Ø1NE Ø6WP103 (primary) dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time: 1050	190		N/A		10.2
Time:					
Time:					

Laboratory Tests: (DRO) (RRO) (GRO) (BTEX) VOC PAH (PCB) (Metals TAL)
Alkalinity Sulfate Methane/Ethane/Ethene

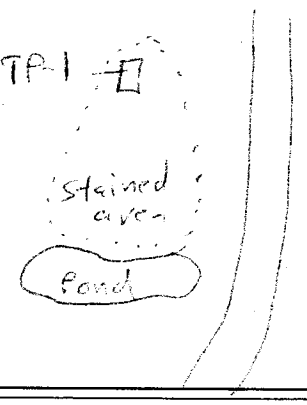
SOIL SAMPLING FIELD NOTE FORM	Project Number: 1850574.260120	Sample Location: TP 6-1

Project: Northeast Cape 2001 Phase III RI

Site: #6 Cargo Beach Rd, Drum field

Client: United States Army Engineer District – Alaska

MAP



FIELD INFORMATION

Date: 8-18-01 **Sampler(s):** Bonnie McLean

Sampling Equipment: Stainless Steel Spoon

SAMPLE INFORMATION

Time: 1106 **Depth Interval:** 5.5' bgs ft **PID:** 37.0 ppm
Sample ID: Ø1NE 06 TP 1 01 (primary) duplicate triplicate (ms/msd)

Time: 1105 **Depth Interval:** 5.5' bgs ft **PID:** 37.0 ppm
Sample ID: Ø1NE 06 TP 2 01 primary (duplicate) triplicate ms/msd

Time: 1110 **Depth Interval:** 5.5' bgs ft **PID:** 37.0 ppm
Sample ID: Ø1NE 06 NE 3 01 primary duplicate (triplicate) ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Analyses: (DRO) (RRO) GRO BTEX VOC PAH PCB Pest. TALmetal Pb Zn Cr (TOC) Geotech

SOIL SAMPLING FIELD NOTE FORM

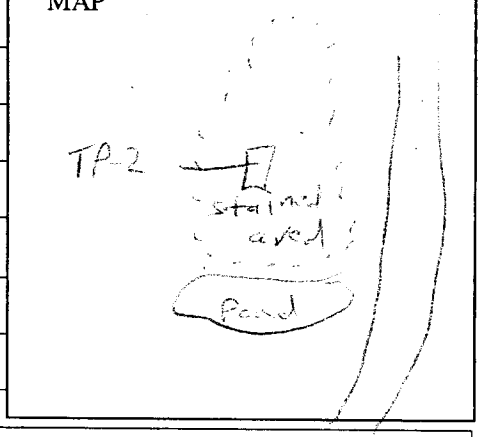
Project Number:	Sample Location:
1850574.260120	TP6-2

Project: Northeast Cape 2001 Phase III RI

Site: #6 Cargo Beach Rd, Drum Field

Client: United States Army Engineer District – Alaska

MAP



FIELD INFORMATION

Date: 8-18-01 **Sampler(s):** Bonnie McLean

Sampling Equipment: Stainless steel spoon

SAMPLE INFORMATION

Time: 1200 **Depth Interval:** 5,0 ft **PID:** 52 ppm

Sample ID: Ø1NE06TP102 (primary) duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Analyses: (DRO) (RRO) GRO BTEX VOC PAH PCB Pest. TALmetal Pb Zn Cr (TOC) Geotech

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: Site 6	Page 1 of
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-18-01	**Sampler(s):** Mclean		

SURFACE WATER SAMPLE INFORMATION				
Stream Name: NA		**Depth:** NA ft	**Width:** NA ft	
Appearance: NA				
Cross-Section Number/Location (if applicable):				
Collection method: Disposable Teflon dipper		**Temp. ° C:**	**Cond. (umhos/cm):**	
		pH:	**CS Collection Point:**	
Sheen: none slight moderate abundant		**Odor:** none slight moderate strong		
Time: 1600	**Depth:** 3"	**Sample ID:** Ø1NE 0 6 S W 1 1 6	prime dup trip split ms/msd	
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd	
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd	
Laboratory Tests: DRO RRO GRO BTEX VOC SVOC PAH PCB TAL metals				

SEDIMENT SAMPLE INFORMATION				
Collection method: SS Spoon				
Cross-Section Number/Location (if applicable):				
Time: 1600	**Depth:** 0-6"	**Point:**	**Sample ID:** Ø1NE 0 6 S D 1 1 6	prime dup trip split ms/msd
Time: 1630	**Depth:** 0-6"	**Point:**	**Sample ID:** Ø1NE 0 6 S D 1 1 7	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Laboratory Tests: DRO RRO GRO BTEX VOC PAH PCB Pesticides TAL metals Pb Zn Cr TOC Geotech				

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number: 1850574.260120 | Well ID: WP7-1

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-28-01 | **Time:** 1000 | **Sampler(s):** William O'Connell

Well type: Monitoring Well (Well Point) Other:

Well condition: Good

Protective casing height (ft ags): NA

PVC casing height (ft ags): NA

Well depth below top of PVC (ft): NA

Water level below top of PVC (ft): NA

Water column height (ft): = A

PVC casing ID (in): = B

Purging Method/Equipment:

Minimum purge volume calculation:

One well volume (gal) = $0.163A(B/2)^2 = C$

Minimum purge volume = C x 3

Calculation:

Sheen: (none) slight moderate abundant

Odor: (none) slight moderate strong

Gallons	Time	Temperature °C	pH pH units	Conductivity umhos/cm	Comments
	8-26 1445	6.0	6.7	71	Silty
					*Sampled over
					3 days due to
					low water

Time: 1000 **Sample ID:** Ø1NE 07WP101 (primary) dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time:					
Time:					
Time:					

Laboratory Tests: (DRO) (RRO) GRO BTEX Alkalinity Sulfate Methane/Ethane/Ethene

(PCB PAH Metals)

GROUNDWATER SAMPLING FIELD NOTE FORM	Project Number: 1850574.260120	Well ID: WP72

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 9-27-01 | **Time:** 1700 | **Sampler(s):** Bill OConnell

Well type: Monitoring Well Well Point (Other: PIT 36" BGS)

Well condition:

Protective casing height (ft ags): NA

PVC casing height (ft ags): NA

Well depth below top of PVC (ft): NA

Water level below top of PVC (ft): NA

Water column height (ft): = A

PVC casing ID (in): = B

Purging Method/Equipment: Direct Push Rig

Minimum purge volume calculation:

One well volume (gal) = $0.163A(B/2)^2 = C$

Minimum purge volume = C x 3

Calculation:

Sheen: none slight moderate abundant

Odor: (none) slight moderate strong

Gallons	Time	Temperature °C	pH pH units	Conductivity umhos/cm	Comments

Time: 1700 **Sample ID:** Ø1NE-07WP102 (primary) dup triplicate ms/msd

Time: 1705 **Sample ID:** Ø1NE-07WP202 primary (dup) triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time:					
Time:					
Time:					

Laboratory Tests: (DRO) (RRO) (GRO) (BTEX) Alkalinity Sulfate Methane/Ethane/Ethene (PCB, PAH)

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number:	Well ID:
1850574.260120	WP 7-3

Project: NEC 2001 Phase III RI **Client:** USAED

Date: 8-27-01 **Time:** 1430 **Sampler(s):** [illegible] O'Connell

Well type: Monitoring Well Well Point Other: Pit 40' BGS

Well condition:

Protective casing height (ft ags): NA

PVC casing height (ft ags): NA

Well depth below top of PVC (ft): NA

Water level below top of PVC (ft): NA

Water column height (ft): = A

PVC casing ID (in): = B

Purging Method/Equipment: Peristaltic Pump

Minimum purge volume calculation:

One well volume (gal) = $0.163A(B/2)^2 = C$

Minimum purge volume = C x 3

Calculation:

Sheen: none slight moderate abundant

Odor: none slight moderate strong

Gallons	Time	Temperature °C	pH pH units	Conductivity umhos/cm	Comments
No Parameters Taken					

Time: 1430 **Sample ID:** Ø1NE 27WP103 primary dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time:					
Time:					
Time:					

Laboratory Tests: DRO RRO GRO BTEX Alkalinity Sulfate Methane/Ethane/Ethene

(MNA Parameters)

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: 07SW/SD104	Page 1 of 1
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-19-01	**Sampler(s):** Bonnie McLean		

SURFACE WATER SAMPLE INFORMATION					
Stream Name: Pond W. of landfill		**Depth:** ~~NA~~ 1-1.5 ft		**Width:** NA ft	
Appearance: Debris filled, Rocky					
Cross-Section Number/Location (if applicable):					
Collection method: Disposable Teflon dipper		**Temp. ° C:** 9.0		**Cond. (umhos/cm):** 401	
		pH: 7.21		**CS Collection Point:**	
Sheen: (none) slight moderate abundant			**Odor:** (none) slight moderate strong		
Time: 1330	**Depth:** 1-1.5'	**Sample ID:** Ø1NE 07SW104		(prime) dup trip split ms/msd	
Time:	**Depth:**	**Sample ID:** Ø1NE _____		prime dup trip split ms/msd	
Time:	**Depth:**	**Sample ID:** Ø1NE _____		prime dup trip split ms/msd	
Laboratory Tests: DRO RRO GRO BTEX VOC SVOC PAH PCB TAL metals					

SEDIMENT SAMPLE INFORMATION				
Collection method: Stainless Steel Spoon				
Cross-Section Number/Location (if applicable):				
Time: 1330	**Depth:** 0-6"	**Point:**	**Sample ID:** Ø1NE 07SD104	(prime) dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Laboratory Tests: (DRO) (RRO) (GRO) (BTEX) (VOC) (PAH) (PCB) Pesticides (TAL metals) Pb Zn Cr TOC Geotech				

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: 07SW/SD105	Page 1 of 1
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-19-01	**Sampler(s):** Bonnie Mclean		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Pond E. of landfill	**Depth:** 0.5 ft	**Width:** NA ft
Appearance: Shallow, organic silty bottom		
Cross-Section Number/Location (if applicable):		
Collection method: Disposable Teflon dipper	**Temp. °C:** 6.2	**Cond. (umhos/cm):** 505
	pH: 7.84	**CS Collection Point:**
Sheen: none slight moderate abundant	**Odor:** none slight moderate strong	

Time: 1500	**Depth:** 0.5'	**Sample ID:** Ø1NE 0 7 S W 1 0 5	prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd

Laboratory Tests: (DRO) (RRO) GRO BTEX VOC SVOC (PAH) (PCB) (TAL metals)

SEDIMENT SAMPLE INFORMATION

Collection method:

Cross-Section Number/Location (if applicable):

Time: 1530	**Depth:** Surface	**Point:**	**Sample ID:** Ø1NE 0 7 S D 1 0 7	(prime) dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _	prime dup trip split ms/msd

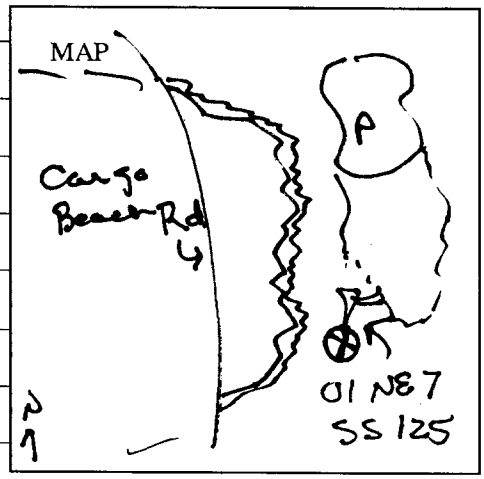
Laboratory Tests: (DRO) (RRO) (GRO) (BTEX) (VOC) (PAH) (PCB) Pesticides (TAL metals) Pb Zn Cr TOC Geotech

SOIL SAMPLING FIELD NOTE FORM	Project Number: 1850574.260120	Sample Location: Site 7 · SS 125

Project: Northeast Cape 2001 Phase III RI

Site: Site 7 – Cargo Beach Landfill

Client: United States Army Engineer District – Alaska



FIELD INFORMATION

Date: 8-19-01 **Sampler(s):** Bgm

Sampling Equipment: S.S. spoon

SAMPLE INFORMATION

Time: 1115 **Depth Interval:** 0-0.5' ft **PID:** 0 ppm

Sample ID: Ø1NE07SS125 primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Analyses: DRO RRO GRO BTEX VOC PAH PCB Pest. TALmetal Pb Zn Cr TOC Geotech

gravelly mix; dark red Clayey silt; rust particles mix; CofC # 01 NE 09

SOIL SAMPLING FIELD NOTE FORM

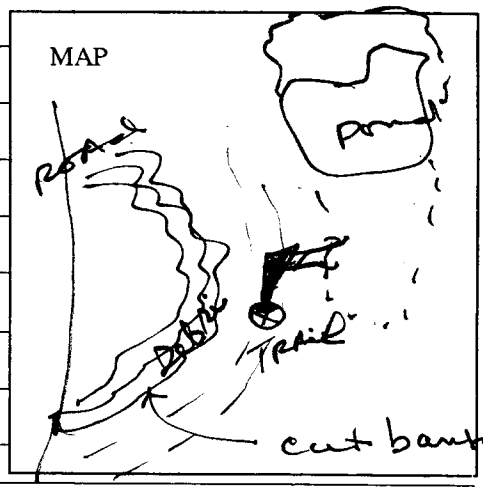
Project Number:	Sample Location:
1850574.260120	Site 7 – SS126

Project: Northeast Cape 2001 Phase III RI

Site: Site 7 - Cargo Reached Landfill

Client: United States Army Engineer District – Alaska

MAP



FIELD INFORMATION

Date: 8-19-01 **Sampler(s):** BMcLean

Sampling Equipment: S.S. spoon

SAMPLE INFORMATION

Time: 1130 **Depth Interval:** 0-.5' ft **PID:** 27 ppm

Sample ID: Ø1NE07SS126 primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Analyses: DRO RRO GRO BTEX VOC PAH PCB Pest. TALmetal Pb Zn Cr TOC Geotech

med. Sandy, rust particles mix ; (Copc # 01 SEC 09)

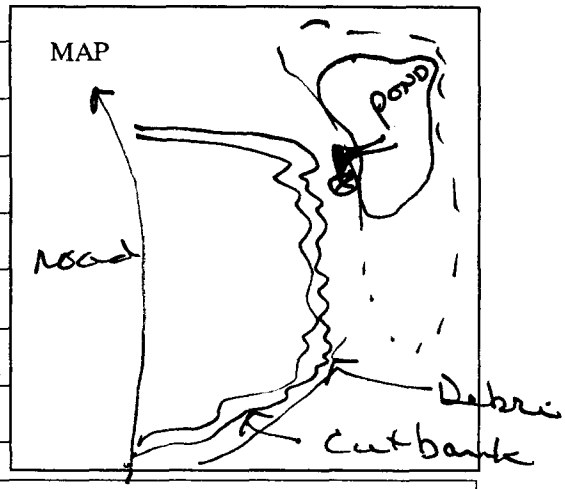
SOIL SAMPLING FIELD NOTE FORM

Project Number:	Sample Location:
1850574.260120	Site 7-SS127

Project: Northeast Cape 2001 Phase III RI

Site: Site 7-Cargo Beach Rd and fill

Client: United States Army Engineer District – Alaska



FIELD INFORMATION

Date: 8-19-01 **Sampler(s):** B McLean

Sampling Equipment: S.S. spoon.

SAMPLE INFORMATION

Time: 1145 **Depth Interval:** 0 – 0.5 ft **PID:** 31 ppm

Sample ID: Ø1NE07SS127 (primary) duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Analyses: DRO RRO GRO BTEX VOC PAH PCB Pest. TALmetal Pb Zn Cr TOC Geotech

Med. to fine sandy silt; dark brown (COJC # 01 NEC09)
reddish; high organic component with plant roots.

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number:	Well ID:
1850574.260120	MW-9-3

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-26-01 | **Time:** 1015 | **Sampler(s):** Bill O'Connell

Well type: (Monitoring Well) Well Point Other:

Well condition: Marginal

Protective casing height (ft ags): –	**Minimum purge volume calculation:**
PVC casing height (ft ags): –	One well volume (gal) = $0.163A(B/2)^2 = C$
Well depth below top of PVC (ft): 9.94	Minimum purge volume = C x 3
Water level below top of PVC (ft): 4.29	**Calculation:** = 2.76 gal
Water column height (ft): 5.65 = A	
PVC casing ID (in): 2 = B	
Purging Method/Equipment: Bailer	

Sheen: (none) slight moderate abundant

Odor: (none) slight moderate strong

Gallons	Time	Temperature °C	pH pH units	Conductivity umhos/cm	Comments
.5	1015	5.5	7.1	148.0	Very Silty
					* Bailed dry
					then Samples

Time: 1015 **Sample ID:** Ø1NE 09MW103 (primary) dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time:					
Time:					
Time:					

Laboratory Tests: DRO RRO (GRO) BTEX Alkalinity Sulfate Methane/Ethane/Ethene

(VOC)

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number:	Well ID:
1850574.260120	WP9-2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-26-01 | **Time:** 0900 | **Sampler(s):** Bill OConnell

Well type: Monitoring Well (Well Point) Other:

Well condition: good

Protective casing height (ft ags):	**Minimum purge volume calculation:**
PVC casing height (ft ags):	One well volume (gal) = $0.163A(B/2)^2 = C$
Well depth below top of PVC (ft): 6.37	Minimum purge volume = C x 3
Water level below top of PVC (ft): 3.34	**Calculation:**
Water column height (ft): 3.03 = A	
PVC casing ID (in): = B	
Purging Method/Equipment:	

Sheen: none slight moderate abundant

Odor: none slight moderate strong

Gallons	Time	Temperature °C	pH pH units	Conductivity umhos/cm	Comments
.5	0900	9.0	6.4	70.0	

Time: 0900	**Sample ID:** Ø1NE 09WP102 (primary) dup triplicate ms/msd
Time:	**Sample ID:** Ø1NE _____ primary dup triplicate ms/msd
Time:	**Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time:	9.28				11.0
Time:					
Time:					

Laboratory Tests: (DRO) (RRO) (GRO) (BTEX) Alkalinity Sulfate Methane/Ethane/Ethene

PCB, PAH, Metals

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: Site 9	Page 1 of
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-25-01	**Sampler(s):** B. Il OConnell		

SURFACE WATER SAMPLE INFORMATION			
Stream Name: none	**Depth:** 0.5 ft	**Width:** 6.0 ft	
Appearance: Marsh area near Cargo Beach Road Sub for WP 9-1			
Cross-Section Number/Location (if applicable): —			
Collection method: Disposable Teflon dipper	**Temp. ° C:** 9.0	**Cond. (umhos/cm):** 31.0	
	pH: 6.80	**CS Collection Point:**	
Sheen: (none) slight moderate abundant	**Odor:** (none) slight moderate strong		
Time: 1720	**Depth:** 4"	**Sample ID:** Ø1NE Ø 9 S W 1 1 Ø (prime) dup trip split ms/msd	
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd	
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd	
Laboratory Tests: (DRO) (RRO) (GRO) (BTEX) VOC SVOC (PAH) (PCB) (TAL metals)			

SEDIMENT SAMPLE INFORMATION			
Collection method:			
Cross-Section Number/Location (if applicable):			
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
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Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Laboratory Tests: DRO RRO GRO BTEX VOC PAH PCB Pesticides TAL metals Pb Zn Cr TOC Geotech			

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: Site 9	Page 1 of 1
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-26-01	**Sampler(s):** Bill OConnell		

SURFACE WATER SAMPLE INFORMATION

Stream Name: none	**Depth:** 1.5 ft	**Width:** 25 ft
Appearance: Small pond with Debris around edges, Sub for wplcu		
Cross-Section Number/Location (if applicable):		
Collection method: Disposable Teflon dipper	**Temp. ° C:** 10.0	**Cond. (umhos/cm):** 31.0
	pH: 7.0	**CS Collection Point:**
Sheen: none slight moderate abundant	**Odor:** none slight moderate strong	

Time: 1115	**Depth:** 1.0 ft	**Sample ID:** Ø1NE 0 9 S W 1 1 prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE __ __ __ __ __ __ __ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE __ __ __ __ __ __ __ prime dup trip split ms/msd

Laboratory Tests: DRO RRO GRO BTEX VOC SVOC PAH PCB TAL metals

SEDIMENT SAMPLE INFORMATION

Collection method:

Cross-Section Number/Location (if applicable):

Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE __ __ __ __ __ __ __ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE __ __ __ __ __ __ __ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE __ __ __ __ __ __ __ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE __ __ __ __ __ __ __ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE __ __ __ __ __ __ __ prime dup trip split ms/msd
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Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE __ __ __ __ __ __ __ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE __ __ __ __ __ __ __ prime dup trip split ms/msd

Laboratory Tests: DRO RRO GRO BTEX VOC PAH PCB Pesticides TAL metals Pb Zn Cr TOC Geotech

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: Site 9	Page 1 of 1
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-26-01	**Sampler(s):** Bill OConnell		

SURFACE WATER SAMPLE INFORMATION

Stream Name: -	**Depth:** 2.5 ft	**Width:** 6.0 ft
Appearance: Small pool in drainage, subtle flow up hill		
Cross-Section Number/Location (if applicable):		
Collection method: Disposable Teflon dipper	**Temp. ° C:** 7.0	**Cond. (umhos/cm):** 30.0
	pH: 7.2	**CS Collection Point:**
Sheen: none slight moderate abundant	**Odor:** none slight moderate strong	

Time: 1245	**Depth:** 2.5 ft	**Sample ID:** Ø1NE 2 5 W 1 3 prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd

Laboratory Tests: DRO RRO GRO BTEX VOC SVOC PAH PCB TAL metals

SEDIMENT SAMPLE INFORMATION

Collection method:

Cross-Section Number/Location (if applicable):

Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
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Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
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Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd

Laboratory Tests: DRO RRO GRO BTEX VOC PAH PCB Pesticides TAL metals Pb Zn Cr TOC Geotech

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: 09SW/SD107	Page 1 of
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-23-01	**Sampler(s):** OGowell / Martell		

SURFACE WATER SAMPLE INFORMATION				
Stream Name: NA		**Depth:** 3" ft	**Width:** NA ft	
Appearance: SE side of Pond				
Cross-Section Number/Location (if applicable):				
Collection method: Disposable Teflon dipper		**Temp. ° C:** 7.1	**Cond. (umhos/cm):** 46.4	
		pH: 7.62	**CS Collection Point:**	
Sheen: none slight moderate abundant		**Odor:** none slight moderate strong		
Time: 1450	**Depth:** 3"	**Sample ID:** Ø1NE 0 9 5 W 1 0 7	prime dup trip split (ms/msd)	
Time: 1455	**Depth:** 3"	**Sample ID:** Ø1NE 0 9 5 W 2 0 7	prime (dup) trip split ms/msd	
Time: 1450	**Depth:** 3"	**Sample ID:** Ø1NE 0 9 5 W 3 0 7	prime dup trip (split) ms/msd	
Laboratory Tests: (DRO) (RRO) (GRO) BTEX (VOC) SVOC (PAH) (PCB) (TAL metals)				

SEDIMENT SAMPLE INFORMATION			
Collection method: Stainless Steel Spoon			
Cross-Section Number/Location (if applicable):			
Time: 1540	**Depth:** 0-6"	**Point:**	**Sample ID:** Ø1NE 0 9 5 D 1 0 7 (prime) dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
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Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Laboratory Tests: (DRO) (RRO) GRO BTEX (VOC) (PAH) (PCB) Pesticides (TAL metals) Pb Zn Cr TOC Geotech			

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: 09SW/SD108	Page 1 of
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-23-01	**Sampler(s):** OConnell/Markell		

SURFACE WATER SAMPLE INFORMATION			
Stream Name: NA	**Depth:** 3" ft	**Width:** NA ft	
Appearance: South of Pond			
Cross-Section Number/Location (if applicable):			
Collection method: Disposable Teflon dipper	**Temp. ° C:** 6.6	**Cond. (umhos/cm):** 48.7	
	pH: 7.43	**CS Collection Point:**	
Sheen: (none) slight moderate abundant	**Odor:** (none) slight moderate strong		
Time: 1555 **Depth:** 3"	**Sample ID:** Ø1NE 09SW108 (prime) dup trip split ms/msd		
Time: **Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd		
Time: **Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd		
Laboratory Tests: (DRO) (RRO) (GRO) BTEX (VOC) SVOC (PAH) (PCB) (TAL metals)			

SEDIMENT SAMPLE INFORMATION			
Collection method: Stainless Steel Spoon			
Cross-Section Number/Location (if applicable):			
Time: 1610 **Depth:** 0-6"	**Point:**	**Sample ID:** Ø1NE 09SD108 (prime) dup trip split ms/msd	
Time: **Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd	
Time: **Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd	
Time: **Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd	
Time: **Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd	
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Time: **Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd	
Time: **Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd	
Time: **Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd	
Laboratory Tests: (DRO) (RRO) GRO BTEX (VOC) (PAH) (PCB) Pesticides (TAL metals) Pb Zn Cr TOC Geotech			

Box

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: 095W/SD 109	Page 1 of
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-23-01	**Sampler(s):** OConnell/Maultell		

SURFACE WATER SAMPLE INFORMATION				
Stream Name: NA		**Depth:** ft	**Width:** ft	
Appearance: North of Pond Iron Precip, Debris along Pond shore				
Cross-Section Number/Location (if applicable):				
Collection method: Disposable Teflon dipper		**Temp. ° C:** 8.3	**Cond. (umhos/cm):** 51.6	
		pH: 7.55	**CS Collection Point:**	
Sheen: none slight moderate abundant		**Odor:** none slight moderate strong		
Time: 1650	**Depth:** 3"	**Sample ID:** Ø1NE 095W109	prime dup trip split ms/msd	
Time:	**Depth:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd	
Time:	**Depth:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd	
Laboratory Tests: (DRO) (RRO) GRO BTEX (VOC) SVOC (PAH) (PCB) (TAL metals)				

SEDIMENT SAMPLE INFORMATION				
Collection method: SS Spoon				
Cross-Section Number/Location (if applicable):				
Time: 1705	**Depth:** 6"	**Point:**	**Sample ID:** Ø1NE 095D109	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Laboratory Tests: (DRO) (RRO) GRO BTEX (VOC) (PAH) (PCB) Pesticides (TAL metals) Pb Zn Cr TOC Geotech				

SOIL SAMPLING FIELD NOTE FORM

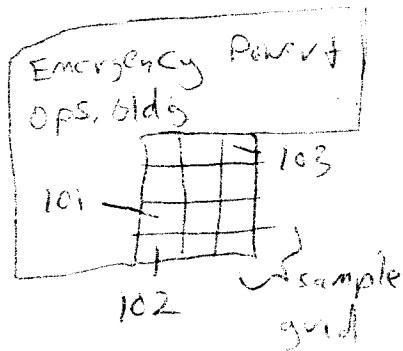
Project Number:	Sample Location:
1850574.260120	145510-103

Project: Northeast Cape 2001 Phase III RI

Site: #14 Emergency Power/operations

Client: United States Army Engineer District – Alaska

MAP



FIELD INFORMATION

Date: 8-29-01 **Sampler(s):** Doug Quist

Sampling Equipment: SS Spoon

SAMPLE INFORMATION

Time: 1130 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 145101 (primary) duplicate triplicate ms/msd

Time: 1135 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 145102 (primary) duplicate triplicate ms/msd

Time: 1140 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 145103 (primary) duplicate triplicate (ms/msd)

Time: 1145 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 145203 primary (duplicate) triplicate ms/msd

Time: 1150 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 145303 primary duplicate (triplicate) ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Analyses: DRO RRO GRO BTEX VOC PAH (PCB) Pest. TALmetal Pb Zn Cr TOC Geotech

SOIL SAMPLING FIELD NOTE FORM

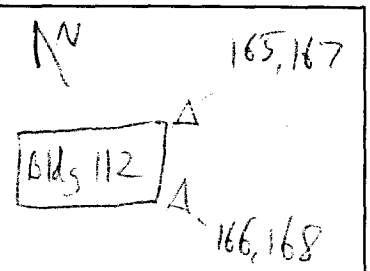
Project Number:	Sample Location:
1850574.260120	165 165-168

Project: Northeast Cape 2001 Phase III RI

Site: #16 Paint + Dope Storage Bldg

Client: United States Army Engineer District – Alaska

MAP N



FIELD INFORMATION

Date: 8-23-01 **Sampler(s):** O'Connell/Mantle

Sampling Equipment: SS Spoon

SAMPLE INFORMATION

Time: 1355 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 165 165 (primary) duplicate triplicate ms/msd

Time: 1415 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 165 166 (primary) duplicate triplicate ms/msd

Time: 1420 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 165 167 (primary) duplicate triplicate ms/msd

Time: 1425 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 165 168 (primary) duplicate triplicate ms/msd

Time: 1400 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 165 265 primary (duplicate) triplicate ms/msd

Time: 1400 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 165 365 primary duplicate (triplicate) (ms/msd)

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE _____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE _____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE _____ primary duplicate triplicate ms/msd

Analyses: DRO RRO GRO BTEX VOC PAH PCB Pest. TALmetal Pb Zn Cr TOC Geotech

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number:	Well ID:
1850574.260120	MW16-1

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-23-01 | **Time:** 1105 | **Sampler(s):** Mark Ell

Well type: (Monitoring Well) Well Point Other:

Well condition: Good

Protective casing height (ft ags): 3.25	**Minimum purge volume calculation:**
PVC casing height (ft ags): 2.93	One well volume (gal) = $0.163A(B/2)^2 = C$
Well depth below top of PVC (ft): 16.76	Minimum purge volume = C x 3
Water level below top of PVC (ft): 13.59	**Calculation:** 1.5 gal
Water column height (ft): 3.17 = A	
PVC casing ID (in): 2" = B	
Purging Method/Equipment:	

Sheen: (none) slight moderate abundant

Odor: (none) slight moderate strong

Gallons	Time	Temperature °C	pH pH units	Conductivity umhos/cm	Comments
0.5	1118	3.1	7.22	244.9	
1.0	1120	2.6	7.07	204.5	
1.5	1123	2.5	7.01	201.9	
2.0	1126	2.3	6.96	189.8	
2.5	1130	2.5	6.95	190.4	

Time: 1135 **Sample ID:** Ø1NE 16GW101 (primary) dup triplicate ms/msd

Time: 1140 **Sample ID:** Ø1NE 16GW201 primary (dup) triplicate ms/msd

Time: 1135 **Sample ID:** Ø1NE 16GW301 primary dup (triplicate) ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time:	49.2				
Time:					
Time:					

Laboratory Tests: DRO RRO (GRO) BTEX Alkalinity Sulfate Methane/Ethane/Ethene

BTEX

(SVOCS)

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number: 1850574.260120 | Well ID: MW16-2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-23-01 | **Time:** 0920 | **Sampler(s):** Markell

Well type: (Monitoring Well) Well Point Other:

Well condition: slightly jacked above protective casing

Protective casing height (ft ags): 3.32	**Minimum purge volume calculation:**
PVC casing height (ft ags): 3.36	One well volume (gal) = $0.163A(B/2)^2 = C$
Well depth below top of PVC (ft): 16.65	Minimum purge volume = C x 3
Water level below top of PVC (ft): 13.25	**Calculation:** = 1.75 gal.
Water column height (ft): 3.40 = A	
PVC casing ID (in): 2" = B	
Purging Method/Equipment:	

Sheen: (none) slight moderate abundant

Odor: (none) slight moderate strong

Gallons	Time	Temperature °C	pH pH units	Conductivity umhos/cm	Comments
0.55	0940	2.6	7.66	161.8	silty
1.20	0945	2.8	7.05	153.1	
2.0	0955	2.5	6.89	154.0	
2.5	0958	2.6	6.83	153.1	

Time: 1005	**Sample ID:** Ø1NE 16GW102 (primary) dup triplicate ms/msd
Time:	**Sample ID:** Ø1NE _____ primary dup triplicate ms/msd
Time:	**Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time:	1000+				
Time:					
Time:					

Laboratory Tests: DRO RRO GRO BTEX Alkalinity Sulfate Methane/Ethane/Ethene

(SVOC)

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number:	Well ID:
1850574.260120	MW16-3

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-23-01 | **Time:** 1020 | **Sampler(s):** Dreher

Well type: (Monitoring Well) Well Point Other:

Well condition: Good

Protective casing height (ft ags): 2.83	**Minimum purge volume calculation:**
PVC casing height (ft ags): 2.63	One well volume (gal) = $0.163A(B/2)^2 = C$
Well depth below top of PVC (ft): 17.28	Minimum purge volume = C x 3
Water level below top of PVC (ft): 13.81	**Calculation:** = 2 gal
Water column height (ft): 3.47 = A	
PVC casing ID (in): 2" = B	
Purging Method/Equipment:	

Sheen: (none) slight moderate abundant

Odor: (none) slight moderate strong

Gallons	Time	Temperature °C	pH pH units	Conductivity umhos/cm	Comments
.75	1035	3.3	7.45	155.5	
1.25	1037	2.2	7.22	148.0	
2.00	1040	2.2	7.14	145.5	
2.75	1043	2.4	7.10	141.7	
3.25	1045	2.1	7.06	142.5	

Time: 1045 **Sample ID:** Ø1NE 16GW103 (primary) dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time:	119				
Time:					
Time:					

Laboratory Tests: DRO RRO GRO BTEX Alkalinity Sulfate Methane/Ethane/Ethene SVOC

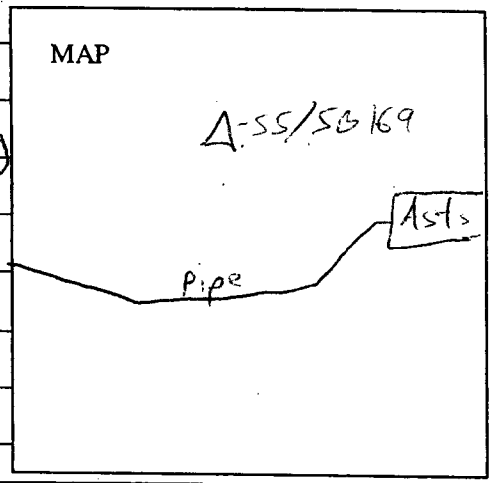
SOIL SAMPLING FIELD NOTE FORM	Project Number: 1850574.260120	Sample Location: 2155/SB169

Project: Northeast Cape 2001 Phase III RI

Site: 21 - Wastewater Treatment Facility

Client: United States Army Engineer District – Alaska

MAP



FIELD INFORMATION

Date: 8-24-01 **Sampler(s):** OConnell/Martell

Sampling Equipment: Hand Auger / SS Spoon

SAMPLE INFORMATION

Time: 1045	**Depth Interval:** 0-6"				ft **PID:**	ppm
Sample ID: Ø1NE 21552169	(primary)	duplicate	triplicate	(ms/msd)		
Time: 1100	**Depth Interval:** 18"-24"				ft **PID:**	ppm
Sample ID: Ø1NE 21562169	(primary)	duplicate	triplicate	ms/msd		
Time: 1050	**Depth Interval:** 0-6"				ft **PID:**	ppm
Sample ID: Ø1NE 21552269	primary	(duplicate)	triplicate	ms/msd		
Time: 1050	**Depth Interval:** 0-6"				ft **PID:**	ppm
Sample ID: Ø1NE 21553269	primary	duplicate	(triplicate)	ms/msd		
Time:	**Depth Interval:**				ft **PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd		
Time:	**Depth Interval:**				ft **PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd		
Time:	**Depth Interval:**				ft **PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd		
Time:	**Depth Interval:**				ft **PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd		
Time:	**Depth Interval:**				ft **PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd		

Analyses: (DRO) (RRO) (GRO) (BTEX) VOC PAH (PCB) Pest. (TALmetal) Pb Zn Cr TOC Geotech

SOIL SAMPLING FIELD NOTE FORM

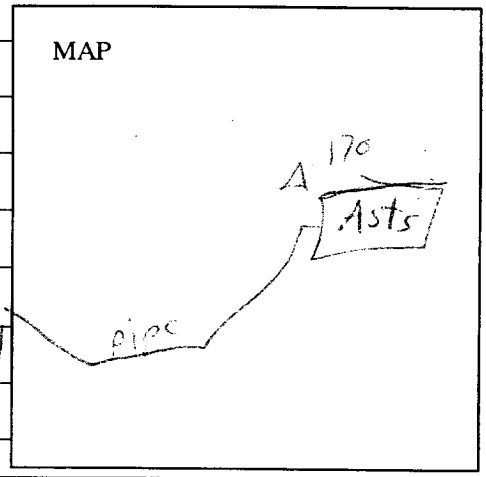
Project Number:	Sample Location:
1850574.260120	21SS170

Project: Northeast Cape 2001 Phase III RI

Site: 21-Wastewater Treatment plant

Client: United States Army Engineer District – Alaska

MAP



FIELD INFORMATION

Date: 9-24-01 **Sampler(s):** OConnell/Martell

Sampling Equipment: SS spoons, hand auger

SAMPLE INFORMATION

Time: 1125	**Depth Interval:** 0-6"				ft	**PID:**	ppm
Sample ID: Ø1NE 21SS170	primary	duplicate	triplicate	ms/msd			
Time: 1130	**Depth Interval:** 18-24"				ft	**PID:**	ppm
Sample ID: Ø1NE 21SB170	primary	duplicate	triplicate	ms/msd			
Time:	**Depth Interval:**				ft	**PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd			
Time:	**Depth Interval:**				ft	**PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd			
Time:	**Depth Interval:**				ft	**PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd			
Time:	**Depth Interval:**				ft	**PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd			
Time:	**Depth Interval:**				ft	**PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd			
Time:	**Depth Interval:**				ft	**PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd			
Time:	**Depth Interval:**				ft	**PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd			

Analyses: DRO RRO GRO BTEX VOC PAH PCB Pest. TALmetal Pb Zn Cr TOC Geotech

SOIL SAMPLING FIELD NOTE FORM

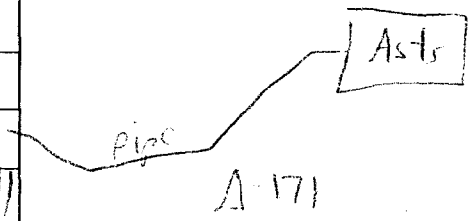
Project Number:	Sample Location:
1850574.260120	21SS/SB171

Project: Northeast Cape 2001 Phase III RI

Site: 21-Wastewater Treatment Facility

Client: United States Army Engineer District – Alaska

MAP



FIELD INFORMATION

Date: 8-24-01 **Sampler(s):** OConnell/Markell

Sampling Equipment: SS Spoon/Hand Auger

SAMPLE INFORMATION

Time: 0950 **Depth Interval:** 0-6" ft **PID:** ppm

Sample ID: Ø1NE 21SS171 primary duplicate triplicate ms/msd

Time: 1020 **Depth Interval:** 18-24" ft **PID:** ppm

Sample ID: Ø1NE 21SB171 primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Analyses: DRO RRO GRO BTEX VOC PAH PCB Pest. TALmetal Pb Zn Cr TOC Geotech

SOIL SAMPLING FIELD NOTE FORM

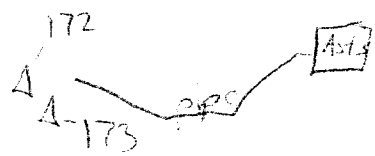
Project Number:	Sample Location:
1850574.260120	21SS172-173

Project: Northeast Cape 2001 Phase III RI

Site: 21-Wastewater Treatment Facility

Client: United States Army Engineer District – Alaska

MAP



FIELD INFORMATION

Date: 9-24-01 **Sampler(s):** O'Gunn/Martell

Sampling Equipment: SS spoon

SAMPLE INFORMATION

Time: 1345 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 21SS172 (primary) duplicate triplicate ms/msd

Time: 1340 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 21SS173 (primary) duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Analyses: (DRO) RRO (GRO) BTEX VOC PAH PCB Pest. (TALmetal) Pb Zn Cr TOC Geotech

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: 21SW/SD113	Page 1 of
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-24-01	**Sampler(s):** OGunell / Markell		

SURFACE WATER SAMPLE INFORMATION

Stream Name: -	**Depth:** - ft	**Width:** - ft
Appearance: Pool in Tributary to Sugar River		
Cross-Section Number/Location (if applicable):		
Collection method: Disposable Teflon dipper	**Temp. ° C:** 5.6	**Cond. (umhos/cm):** 260
	pH: 6.47	**CS Collection Point:**
Sheen: (none) slight moderate abundant	**Odor:** (none) slight moderate strong	

Time: 1440	**Depth:** 3"	**Sample ID:** Ø1NE 21SW113 (prime) dup trip split ms/msd
Time: 1445	**Depth:** 3"	**Sample ID:** Ø1NE 21SW213 prime (dup) trip split ms/msd
Time: 1445	**Depth:** 3"	**Sample ID:** Ø1NE 21SW313 prime dup (trip) split ms/msd

Laboratory Tests: (DRO) (RRO) (GRO) BTEX VOC SVOC PAH (PCB) (TAL metals)

SEDIMENT SAMPLE INFORMATION

Collection method: SS Spoon

Cross-Section Number/Location (if applicable):

Time: 1505	**Depth:** 6"	**Point:**	**Sample ID:** Ø1NE 21SD113 (prime) dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
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Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
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Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd

Laboratory Tests: (DRO) (RRO) (GRO) BTEX VOC PAH (PCB) Pesticides (TAL metals) Pb Zn Cr TOC Geotech

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: 21SW/SD114	Page 1 of
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 9-24-01	**Sampler(s):** OConnell/Markell		

SURFACE WATER SAMPLE INFORMATION

Stream Name: –	**Depth:** – ft	**Width:** – ft
Appearance: Pool in tributary to Sagi. River		
Cross-Section Number/Location (if applicable):		
Collection method: Disposable Teflon dipper	**Temp. ° C:** 5.2	**Cond. (umhos/cm):** 310.1
	pH: 6.57	**CS Collection Point:**
Sheen: (none) slight moderate abundant	**Odor:** (none) slight moderate strong	

Time: 1405	**Depth:** 3"	**Sample ID:** Ø1NE 21SW114 (prime) dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd

Laboratory Tests: (DRO) (RRO) (GRO) BTEX VOC SVOC PAH (PCB) (TAL metals)

SEDIMENT SAMPLE INFORMATION

Collection method: SS Spoon

Cross-Section Number/Location (if applicable):

Time: 1425	**Depth:** 6"	**Point:**	**Sample ID:** Ø1NE 21SD114 (prime) dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd

Laboratory Tests: (DRO) (RRO) (GRO) BTEX VOC PAH (PCB) Pesticides (TAL metals) Pb Zn Cr TOC Geotech

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number:	Well ID:
1850574.260120	356W101

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 7-24-01 | **Time:** 1700 | **Sampler(s):** O'Connell / McLean

Well type: Monitoring Well Well Point (Other: Potable Well)

Well condition: good

Protective casing height (ft ags):

PVC casing height (ft ags): 1.85

Well depth below top of PVC (ft): 60.05

Water level below top of PVC (ft): 30.1

Water column height (ft): 29.95 = A

PVC casing ID (in): 5" = B

Purging Method/Equipment: Submersible pump

Minimum purge volume calculation:

One well volume (gal) = $0.163A(B/2)^2 = C$

Minimum purge volume = C x 3

Calculation: ≈ 90 gal

Sheen: (none) slight moderate abundant

Odor: (none) slight moderate strong

Gallons	Time	Temperature °C	pH pH units	Conductivity umhos/cm	Comments
5	1700	4.2	5.51	148.1	
15	1855	4.3	5.42	157.0	
25	1905	3.4	5.54	160.6	
50	1920	3.5	5.82	190.8	
75	1940	3.2	5.95	217.4	
*	Pump Tailed				
7-25-01					
80	0920	2.8	5.8	132.5	
105+	1100	2.9	5.87	128.9	

Time: 1000 **Sample ID:** Ø1NE 356W101 (primary) dup triplicate ms/msd

Time: 1010 **Sample ID:** Ø1NE 356W201 primary (dup) triplicate ms/msd

Time: 1015 **Sample ID:** Ø1NE 356W301 primary dup (triplicate) ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time: 0920	920			-30.8	5.8
Time:					
Time:					

Laboratory Tests: (DRO) (RRO) (GRO) (BTEX) Alkalinity Sulfate Methane/Ethane/Ethene (Fe, Mn) (N, COD)

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number: 1850574.260120

Well ID: 35GW102

Project: NEC 2001 Phase III RI

Client: USAED

Date: 7-24-01 **Time:** 0945 **Sampler(s):** O'Connell / McLean

Well type: Monitoring Well Well Point (Other: Potable well)

Well condition: good

Protective casing height (ft ags):

PVC casing height (ft ags):

Well depth below top of PVC (ft): 44.2

Water level below top of PVC (ft): 22.45

Water column height (ft): 21.75 = A

PVC casing ID (in): 7" = B

Purging Method/Equipment: Submersible pump

Minimum purge volume calculation:

One well volume (gal) = $0.163A(B/2)^2 = C$

Minimum purge volume = C x 3

Calculation: ≈ 120 gals

Sheen: (none) slight moderate abundant

Odor: (none) slight moderate strong

Gallons	Time	Temperature °C	pH pH units	Conductivity umhos/cm	Comments
20	1030	3.2	6.45	142	
40	1040	2.9	6.74	110.6	
80	1055	2.9	6.80	109.1	
120	1110	3.0	6.79	106.3	

Time: 1100 **Sample ID:** Ø1NE 35GW102 (primary) dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time: 1030	167				
Time: 1040	166				
Time: 1055	108				

Laboratory Tests: (DRO) (RRO) (GRO) (BTEX) (Alkalinity) (Sulfate) Methane/Ethane/Ethene (FE, MN) (N, COD)

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number:	Well ID:
1850574.260120	356W103

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 7-24-01 | **Time:** | **Sampler(s):** O'Connell / McLeay

Well type: Monitoring Well Well Point (Other: Potable Well)

Well condition: Good

Protective casing height (ft ags):

PVC casing height (ft ags):

Well depth below top of PVC (ft): 43,22

Water level below top of PVC (ft): 28,25

Water column height (ft): 14,97 = A

PVC casing ID (in): 7" = B

Purging Method/Equipment: Submersible pump

Minimum purge volume calculation:

One well volume (gal) = $0.163A(B/2)^2 = C$

Minimum purge volume = C x 3

Calculation: ~ 60 gals

Sheen: none slight moderate abundant

Odor: none slight moderate strong

Gallons	Time	Temperature °C	pH pH units	Conductivity umhos/cm	Comments
5	1205	2,5	7,71	540	
60	1245	2,7	7,78	541	
120	1400	2,8	7,67	511	
130	1700	2,7	7,61	519	

Time: 1700 **Sample ID:** Ø1NE 356W103 (primary) dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time: 1400				48,3	9,7
Time:					
Time:					

Laboratory Tests: (DRO) (RRO) (GRO) (BTEX) (Alkalinity) (Sulfate) Methane/Ethane/Ethene

(Fe, Mn, N, COD)

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number:	Well ID:
1850574.260120	35GW104

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 7-26-01 | **Time:** 0745 | **Sampler(s):** OConnell/Mclean

Well type: Monitoring Well (Well Point) (Other:) Potable well

Well condition: good

Protective casing height (ft ags):	**Minimum purge volume calculation:**
PVC casing height (ft ags):	One well volume (gal) = $0.163A(B/2)^2 = C$
Well depth below top of PVC (ft): 57.85	Minimum purge volume = C x 3
Water level below top of PVC (ft): 25.65	**Calculation:** ≈240 gals
Water column height (ft): 32.20 = A	
PVC casing ID (in): 8" = B	
Purging Method/Equipment: Submersible pump	

Sheen: (none) slight moderate abundant

Odor: (none) slight moderate strong

Gallons	Time	Temperature °C	pH pH units	Conductivity umhos/cm	Comments
10	0800	3.4	7.56	474	
50	0820	2.2	7.51	462	
100	0840	2.6	8.07	473	
150 +	0900	2.7	7.85	432	

Time: 0900 **Sample ID:** Ø1NE 35GW104 primary dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time: 0840	56.2			-51.1	8.2
Time: 0900	56.1				
Time:					

Laboratory Tests: (DRO) (RRO) (GRO) (BTEX) Alkalinity Sulfate Methane/Ethane/Ethene

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: 24SW/SD114	Page 1 of
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-24-01	**Sampler(s):** Doug Quist		

SURFACE WATER SAMPLE INFORMATION

Stream Name: NA	**Depth:** NA ft	**Width:** NA ft
Appearance: Pond N. of Bldg		
Cross-Section Number/Location (if applicable):		
Collection method: Disposable Teflon dipper	**Temp. ° C:** 10.2	**Cond. (umhos/cm):** 124.2
	pH: 6.46	**CS Collection Point:**
Sheen: (none) slight moderate abundant	**Odor:** (none) slight moderate strong	
Time: 0830 **Depth:** 3"	**Sample ID:** Ø1NE 24SW114 (prime) dup trip split ms/msd	
Time: 0835 **Depth:** 3"	**Sample ID:** Ø1NE 24SW214 prime (dup) trip split ms/msd	
Time: 0840 **Depth:** 3"	**Sample ID:** Ø1NE 24SW314 prime dup (trip) split ms/msd	
Laboratory Tests: (DRO) (RRO) (GRO) (BTEX) VOC SVOC PAH PCB (TAL metals)		

SEDIMENT SAMPLE INFORMATION

Collection method: SS Spoon

Cross-Section Number/Location (if applicable):

Time: 0900	**Depth:** Surface	**Point:**	**Sample ID:** Ø1NE 24SD114 (prime) dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd

Laboratory Tests: (DRO) (RRO) (GRO) (BTEX) VOC PAH (PCB) Pesticides (TAL metals) Pb Zn Cr TOC Geotech

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: 24SD115	Page 1 of
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-24-01	**Sampler(s):** Doug Quist		

SURFACE WATER SAMPLE INFORMATION			
Stream Name:	**Depth:** ft	**Width:** ft	
Appearance:			
Cross-Section Number/Location (if applicable):			
Collection method: Disposable Teflon dipper	**Temp. °C:**	**Cond. (umhos/cm):**	
	pH:	**CS Collection Point:**	
Sheen: none slight moderate abundant	**Odor:** none slight moderate strong		
Time:	**Depth:**	**Sample ID:** ØINE _ _ _ _ _ _ _ _ prime dup trip split ms/msd	
Time:	**Depth:**	**Sample ID:** ØINE _ _ _ _ _ _ _ _ prime dup trip split ms/msd	
Time:	**Depth:**	**Sample ID:** ØINE _ _ _ _ _ _ _ _ prime dup trip split ms/msd	
Laboratory Tests: DRO RRO GRO BTEX VOC SVOC PAH PCB TAL metals			

SEDIMENT SAMPLE INFORMATION			
Collection method: SS Spoon			
Cross-Section Number/Location (if applicable):			
Time: 0930	**Depth:** Surface	**Point:**	**Sample ID:** ØINE 24SD115 (prime) dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** ØINE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** ØINE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** ØINE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** ØINE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** ØINE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** ØINE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** ØINE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
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Time:	**Depth:**	**Point:**	**Sample ID:** ØINE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** ØINE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** ØINE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Laboratory Tests: (DRO) (RRO) (GRO) (BTEX) VOC PAH (PCB) Pesticides (TAL metals) Pb Zn Cr TOC Geotech			

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: CS-1, Site 28	Page 1 of 2
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-18-01	**Sampler(s):** Melissa Markell, Doug Quist		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Site 28	**Depth:** up to 3.5 ft	**Width:** variable ft
Appearance: braided stream choked with vegetation		
Cross-Section Number/Location (if applicable): CS-1		
Collection method: Disposable Teflon dipper	**Temp. °C:** 4.1	**Cond. ~~(umhos/cm)~~:** 195.5 uS
	pH: 6.63	**CS Collection Point:** DO: HACH 9.6 mg/L YSI 8.3 mg/L
Sheen: none slight moderate (abundant) organic	**Odor:** (none) slight moderate strong	

Time: 1002	**Depth:** 0.5'	**Sample ID:** Ø1NE 2 8 S W 1 1 1 (prime) dup trip split (ms/msd)
Time:	**Depth:**	**Sample ID:** Ø1NE 2 8 S W 2 1 1 prime (dup) trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE 2 8 S W 3 1 1 prime dup (trip) split (ms/msd)

Laboratory Tests: (DRO) (RRO) ~~GRO BTEX VOC SVOC PAH~~ (PCB) ~~TAL metals~~ -411 split COE

SEDIMENT SAMPLE INFORMATION

Collection method: stainless steel spoons, hand auger cores

Cross-Section Number/Location (if applicable): CS-1, Site 28

Time:	Depth:	Point:	Sample ID: Ø1NE
1025	0-6"	A	2 8 S D 1 1 1 (prime) dup trip split (ms/msd)
	0-6"	A	2 8 S D 2 1 1 prime (dup) trip split ms/msd
	0-6"	A	2 8 S D 3 1 1 prime dup (trip) split (ms/msd)
	0-6"	A	2 8 S D 4 1 1 prime dup trip (split) ms/msd
1040	18"	A	2 8 S D 1 1 2 (prime) dup trip split ms/msd
1045	6"	B	2 8 S D 1 1 3 (prime) dup trip split ms/msd
1050		C	2 8 S D 1 1 4 (prime) dup trip split ms/msd
1055		D	2 8 S D 1 1 5 (prime) dup trip split ms/msd
1100		E	2 8 S D 1 1 6 (prime) dup trip split ms/msd
			prime dup trip split ms/msd
			prime dup trip split ms/msd
			prime dup trip split ms/msd
			prime dup trip split ms/msd
			prime dup trip split ms/msd
			prime dup trip split ms/msd

Laboratory Tests: (DRO) (RRO) ~~GRO BTEX VOC~~ (PAH) (PCB) ~~Pesticides TAL metals~~ (Pb) (Zn) (Cr) (TOC) ~~Geotech~~

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	**CS #:** 1	Page 2 of 2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-18-01 | **Sampler(s):** M. Markell, D. Quist

Stream Name: Site 28

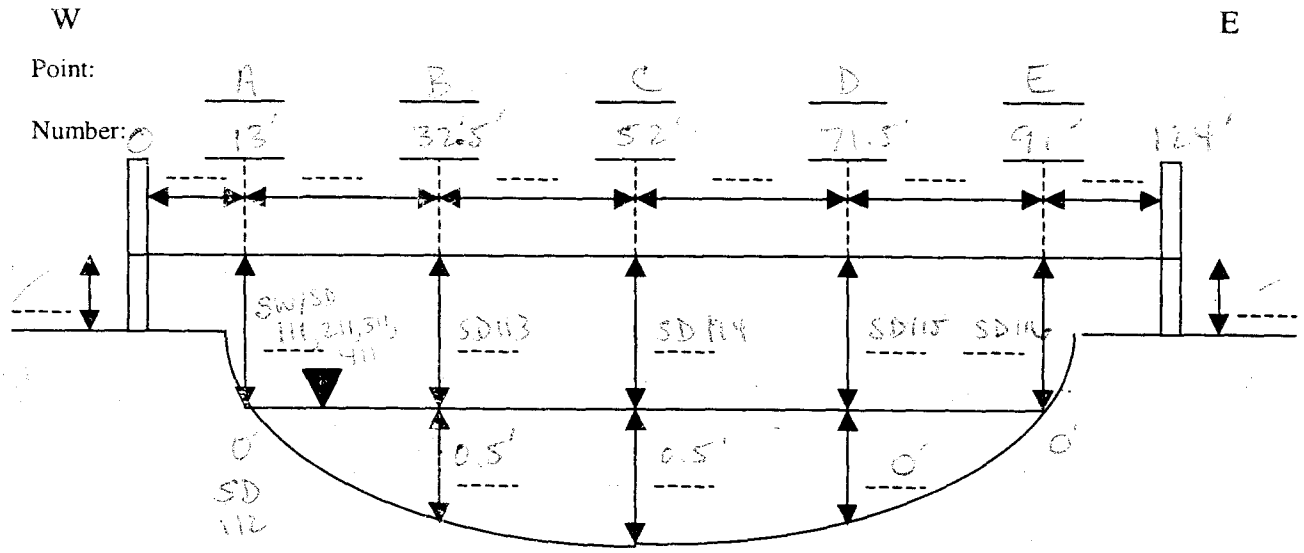
Appearance: see other side

Survey/Measurement Equipment: fiberglass tape, wooden lath

Site Sketch (Plan View):

N

Cross-Section Sketch:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: Site 28, CS-2	Page 1 of 2
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-18-01	**Sampler(s):** Melissa Markell, Doug Quist		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Site 28	**Depth:** up to 3.5 ft	**Width:** variable ft
Appearance: braided stream, choked w/ vegetation, organic/iron precip		
Cross-Section Number/Location (if applicable): CS-2		
Collection method: Disposable Teflon dipper	**Temp. ° C:** —	**Cond. (umhos/cm):** —
	pH: —	**CS Collection Point:** —
Sheen: none slight moderate (abundant) organic	**Odor:** none (slight) moderate strong	

Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:** n/a	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd

Laboratory Tests: DRO RRO GRO BTEX VOC SVOC PAH PCB TAL metals

SEDIMENT SAMPLE INFORMATION

Collection method: stainless steel spoon, hand auger core

Cross-Section Number/Location (if applicable): CS-2

Time: 1325	**Depth:** 6"	**Point:** A	**Sample ID:** Ø1NE 28SD117 prime dup trip split ms/msd
Time: 1335	**Depth:** 1.5'	**Point:** A	**Sample ID:** Ø1NE 28SD118 prime dup trip split ms/msd
Time: 1340	**Depth:** 0.5'	**Point:** B	**Sample ID:** Ø1NE 28SD119 prime dup trip split ms/msd
Time: 1345	**Depth:** 0.5'	**Point:** C	**Sample ID:** Ø1NE 28SD120 prime dup trip split ms/msd
Time: 1350	**Depth:** 0.5'	**Point:** D	**Sample ID:** Ø1NE 28SD121 prime dup trip split ms/msd
Time: 1355	**Depth:** 0.5'	**Point:** E	**Sample ID:** Ø1NE 28SD122 prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd

Laboratory Tests: (DRO) (RRO) ~~GRO~~ ~~BTEX~~ ~~VOC~~ (PAH) (PCB) ~~Pesticides~~ ~~TAL metals~~ (Pb) (Zn) (Cr) (TOC) ~~Geotech~~

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	**CS #:** 2	Page 2 of 2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-18-01 | **Sampler(s):** M. Markell, D. Quist

Stream Name: Site 28

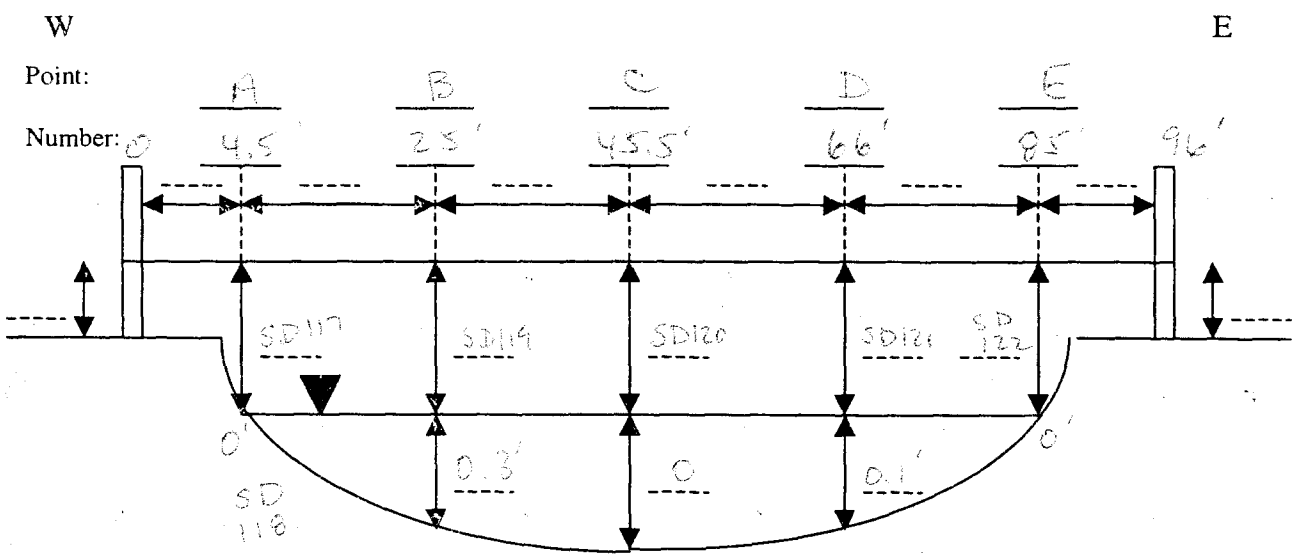
Appearance: see other side

Survey/Measurement Equipment: fiberglass tape, wooden lath

Site Sketch (Plan View):

N

Cross-Section Sketch:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: Site 28 CS-3	Page 1 of 2
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-18-01	**Sampler(s):** Melissa Markell, Doug Quist		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Site 28 **Depth:** up to 3.0 ft **Width:** variable ft

Appearance: braided stream choked with vegetation

Cross-Section Number/Location (if applicable): CS-3

Collection method: Disposable Teflon dipper

Temp. ° C: 3.9 **Cond. ~~(umhos/cm)~~:** 201.9 uS

pH: 6.52 **CS ~~Collection~~ Point:** DO HACH YSI mg/L

Sheen: none slight moderate (abundant) organic **Odor:** none (slight) moderate strong

Time: 1455	**Depth:** 4"	**Sample ID:** Ø1NE 28SW112 (prime) dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd

Laboratory Tests: (DRO) (RRO) ~~GRO BTEX VOC SVOC PAH~~ (PCB) TAL metals

SEDIMENT SAMPLE INFORMATION

Collection method: stainless steel spoons, hand auger core

Cross-Section Number/Location (if applicable): CS-3

Time: 1510	**Depth:** 0.5'	**Point:** A	**Sample ID:** Ø1NE 28SD123 (prime) dup trip split ms/msd
Time: 1520	**Depth:** 0.5'	**Point:** B	**Sample ID:** Ø1NE 28SD124 (prime) dup trip split ms/msd
Time: 1525	**Depth:** 1.5'	**Point:** B	**Sample ID:** Ø1NE 28SD125 prime dup trip split (ms/msd)
Time: ~~154~~	**Depth:** 1.5'	**Point:** (original) ØB	**Sample ID:** Ø1NE 28SD225 prime (dup) trip split ms/msd
Time:	**Depth:** 1.5'	**Point:** (original) ØB	**Sample ID:** Ø1NE 28SD325 prime dup (trip) split ms/msd
Time: 1540	**Depth:** 0.5'	**Point:** (original) ØC	**Sample ID:** Ø1NE 28SD126 (prime) dup trip split ms/msd
Time: 1545	**Depth:** 0.5'	**Point:** D	**Sample ID:** Ø1NE 28SD127 (prime) dup trip split ms/msd
Time: 1550	**Depth:** 0.5'	**Point:** E	**Sample ID:** Ø1NE 28SD128 (prime) dup trip split ms/msd
Time: 1540	**Depth:** 0.5'	**Point:** C	**Sample ID:** Ø1NE ~~28SD~~ SD4 126 prime dup trip (split) ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd

Laboratory Tests: (DRO) ~~RRO GRO BTEX VOC~~ (PAH) (PCB) Pesticides ~~TAL metals~~ (Pb) (Zn) (Cr) (TOC) ~~Geotech~~

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	**CS #:** 3	Page 2 of 2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-18-01 | **Sampler(s):** M. Markell, D. Quist

Stream Name: Site 28

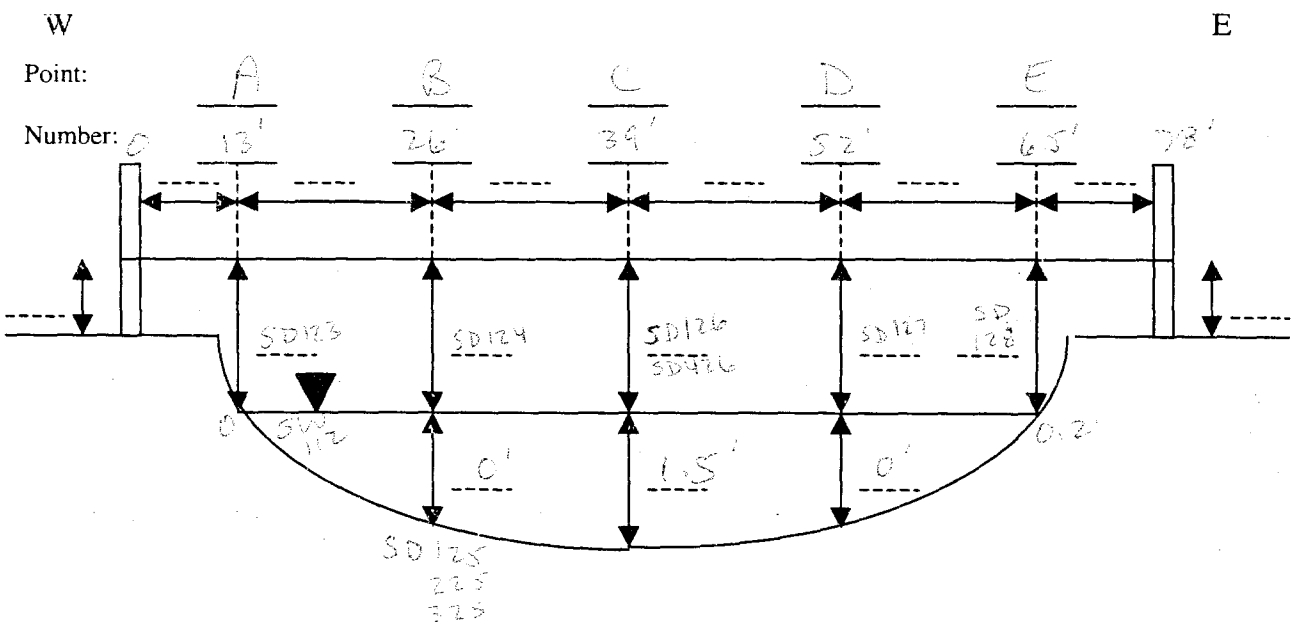
Appearance: See other side

Survey/Measurement Equipment: Fiberglass tape, wooden lath

Site Sketch (Plan View):

N

Cross-Section Sketch:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: site 28, CS-4	Page 1 of 2
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-18-01	**Sampler(s):** Melissa Markell, Doug Quist		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Site 28	**Depth:** up to 3 ft	**Width:** variable ft
Appearance: braided stream choked w/ vegetation		
Cross-Section Number/Location (if applicable): CS-4		
Collection method: Disposable Teflon dipper	**Temp. ° C:**	**Cond. (umhos/cm):**
	pH:	**CS Collection Point:**
Sheen: none slight moderate abundant	**Odor:** none slight moderate strong	

Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd

Laboratory Tests: DRO RRO GRO BTEX VOC SVOC PAH PCB TAL metals

SEDIMENT SAMPLE INFORMATION

Collection method: stainless steel spoon, hand auger core

Cross-Section Number/Location (if applicable):

Time:	Depth:	Point:	Sample ID: Ø1NE
1610	0.5'	A	2 8 S D 1 2 9 prime dup trip split ms/msd
1615	0.5'	B	2 8 S D 1 3 0 prime dup trip split ms/msd
1620	0.5'	C	2 8 S D 1 3 1 prime dup trip split ms/msd
1625	1.5'	C	2 8 S D 1 3 2 prime dup trip split ms/msd
1630	0.5'	D	2 8 S D 1 3 3 prime dup trip split ms/msd
1635	0.5'	E	2 8 S D 1 3 4 prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _____ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _____ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _____ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _____ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _____ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _____ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _____ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _____ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _____ prime dup trip split ms/msd

Laboratory Tests: ~~DRO~~ ~~RRO~~ ~~GRO~~ ~~BTEX~~ VOC ~~PAH~~ ~~PCB~~ ~~Pesticides~~ ~~TAL metals~~ ~~Pb~~ ~~Zn~~ ~~Cr~~ ~~TOC~~ ~~Geotech~~

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	**CS #:** 4	Page 2 of 2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-18-01 | **Sampler(s):** M Markell, D. Quist

Stream Name: Site 28

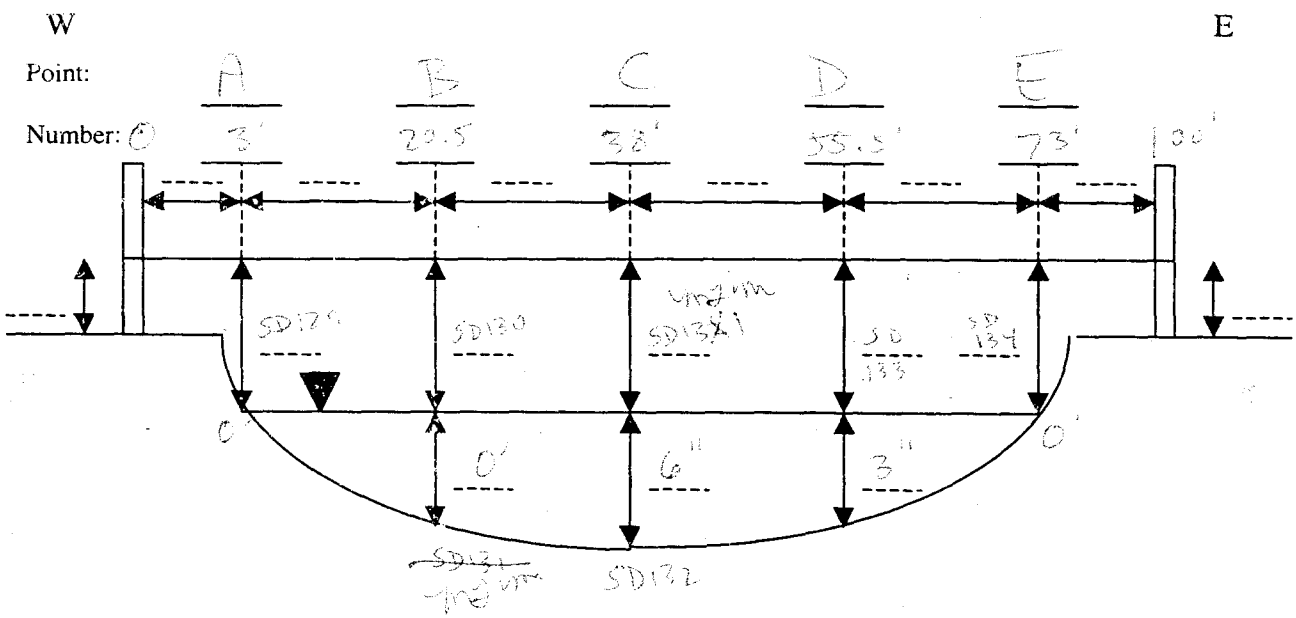
Appearance: See other side

Survey/Measurement Equipment: fiberglass tape, wooden lath

Site Sketch (Plan View):

N

Cross-Section Sketch:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: CS-5	Page 1 of 2
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-19-01	**Sampler(s):** Melissa Markell, Doug Arndt		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Site 28	**Depth:** > 3.5 ft	**Width:** variable ft
Appearance: braided channel exiting from pond, abundant vegetation		
Cross-Section Number/Location (if applicable): CS-5		
Collection method: 8/18/01 Disposable Teflon dipper	**Temp. ° C:** 10.2	**Cond. ~~(umhos/cm)~~:** 113.9 uS
	pH: 7.36	**~~CS Collection Point:~~** DO: 9.08 mg/L 93%
Sheen: none (slight) moderate abundant	**Odor:** none (slight) moderate strong	

Time: 1710	**Depth:** 3'	**Sample ID:** Ø1NE 2 8 S W 1 1 3 (prime) dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd

Laboratory Tests: (DRO) (RRO) GRO BTEX VOC SVOC PAH (PCB) ~~TAL metals~~

SEDIMENT SAMPLE INFORMATION

Collection method: stainless steel spoon, hand auger core

Cross-Section Number/Location (if applicable): CS-5 8/19/01

Time: 1000	**Depth:** 0.5'	**Point:** A	**Sample ID:** Ø1NE 2 8 S D 1 3 5 (prime) dup trip split ms/msd
Time: 1010	**Depth:** 0.5'	**Point:** B	**Sample ID:** Ø1NE 2 8 S D 1 3 6 (prime) dup trip split ms/msd
Time: 1015	**Depth:** 0.5'	**Point:** C	**Sample ID:** Ø1NE 2 8 S D 1 3 7 (prime) dup trip split ms/msd
Time: 1025	**Depth:** 1.5'	**Point:** C	**Sample ID:** Ø1NE 2 8 S D 1 3 8 (prime) dup trip split ms/msd
Time: 1035	**Depth:** 0.5'	**Point:** D	**Sample ID:** Ø1NE 2 8 S D MS/X 1 3 9 (prime) dup trip split ms/msd
Time: 1040	**Depth:** 0.5'	**Point:** D	**Sample ID:** Ø1NE 2 8 S D 2 3 9 prime (dup) trip split ms/msd
Time: 1035	**Depth:** 0.5'	**Point:** D	**Sample ID:** Ø1NE 2 8 S D 3 3 9 prime dup (trip) split ms/msd
Time: 1055	**Depth:** 0.5'	**Point:** E	**Sample ID:** Ø1NE 2 8 S D 1 4 0 (prime) dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd

Laboratory Tests: (DRO) (RRO) ~~GRO~~ ~~BTEX~~ ~~VOC~~ (PAH) (PCB) ~~Pesticides~~ ~~TAL metals~~ Pb Zn Cr (TOC) Geotech

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	**CS #:** 5	Page 2 of 2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-19-01 | **Sampler(s):** M Markell, D Quist

Stream Name: Site 28

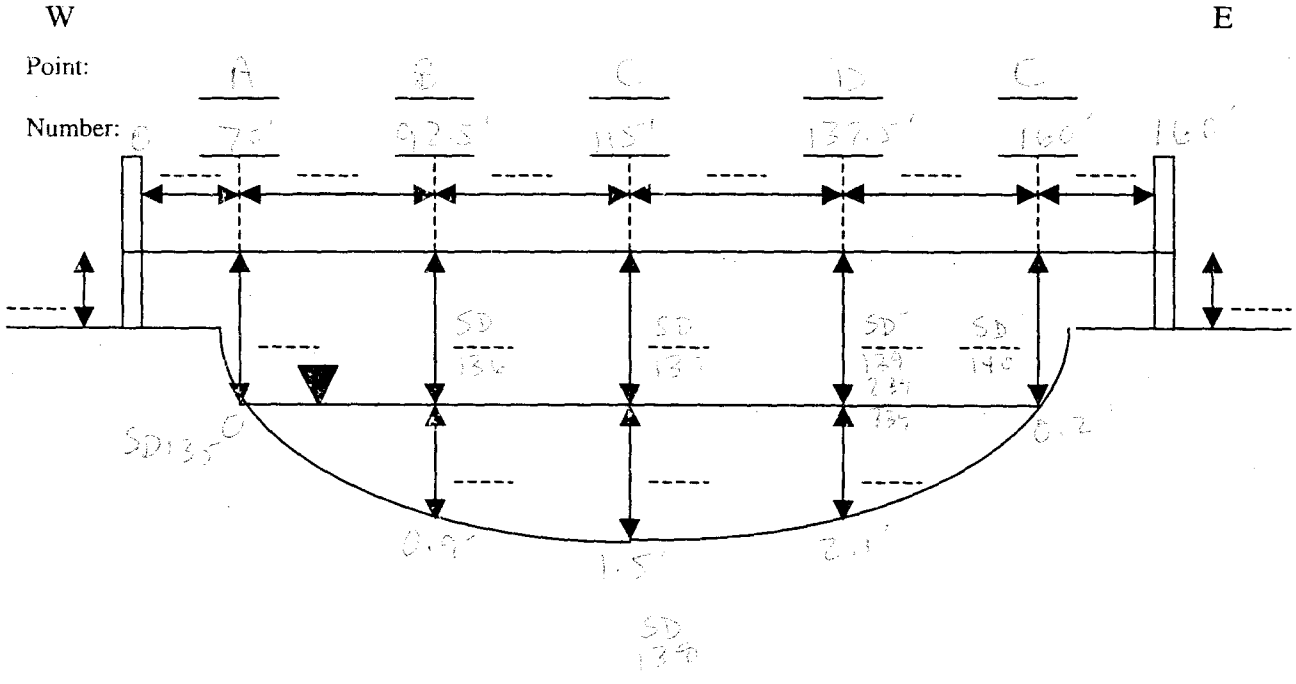
Appearance: See other side

Survey/Measurement Equipment: fiberglass tape, wood lath

Site Sketch (Plan View):

N

Cross-Section Sketch:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: Site 28, CS-6	Page 1 of 2
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-19-01	**Sampler(s):** Melissa Markell, Doug Quist		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Site 28 **Depth:** up to 1 ft **Width:** approx. 90 ft

Appearance: pond, abundant vegetation & wind-blown bldg debris

Cross-Section Number/Location (if applicable): CS-6

Collection method: Disposable Teflon dipper

Temp. ° C:

pH:

Cond. (umhos/cm):

CS Collection Point:

Sheen: none slight moderate abundant **Odor:** none slight moderate strong

Time:	Depth:	Sample ID: Ø1NE	
Time:	Depth: n/a	Sample ID: Ø1NE	prime dup trip split ms/msd
Time:	Depth:	Sample ID: Ø1NE	prime dup trip split ms/msd
			prime dup trip split ms/msd

Laboratory Tests: DRO RRO GRO BTEX VOC SVOC PAH PCB TAL metals

SEDIMENT SAMPLE INFORMATION

Collection method: Stainless steel spoon, hand auger core

Cross-Section Number/Location (if applicable): CS-6

Time:	Depth:	Point:	Sample ID: Ø1NE	
1310	0.5'	A	28SD141	prime dup trip split ms/msd
1315	0.5'	B	28SD142	prime dup trip split ms/msd
1325	0.5'	C	28SD143	prime dup trip split ms/msd
1335	1.5'	C	28SD144	prime dup trip split ms/msd
1345	0.5'	D	28SD145	prime dup trip split ms/msd
1355	0.5'	E	28SD146	prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE	prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE	prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE	prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE	prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE	prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE	prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE	prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE	prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE	prime dup trip split ms/msd

Laboratory Tests: (DRO) ~~RRO~~ ~~GRO~~ ~~BTEX~~ ~~VOC~~ (PAH) (PCB) ~~Pesticides~~ ~~TAL metals~~ (Pb Zn Cr) (TOC) ~~Geotech~~

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	**CS #:** 6	Page 2 of 2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-19-01 | **Sampler(s):** MMarkell, D Quist

Stream Name: Site 26

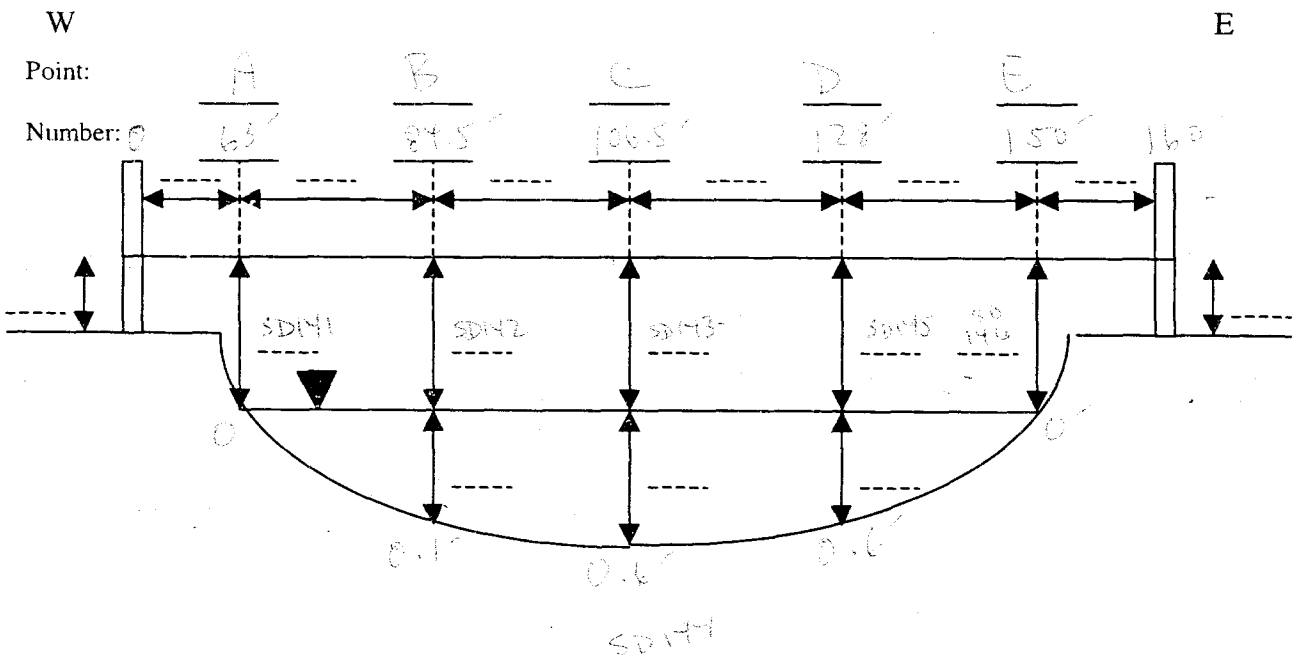
Appearance: See other side

Survey/Measurement Equipment: fiberglass tape, wood lath

Site Sketch (Plan View):

N

Cross-Section Sketch:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: Site 28, CS-7	Page 1 of 2
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-19-01	**Sampler(s):** Melissa Martell, Doug Quist		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Site 28	**Depth:** < 0.5 ft	**Width:** 7.3 ft
Appearance: brown & green scum on surface, abundant fuel sheen		
Cross-Section Number/Location (if applicable): CS-7B		
Collection method: Disposable Teflon dipper	**Temp. ° C:** 5.2	**Cond. ~~(umhos/cm)~~:** 138.6 uS
	pH: 7.4	**CS ~~Collection Point~~:** DO: HACH 8.2 mg/L YSI 7.9 mg/L

Sheen: none slight moderate (abundant) **Odor:** none slight (moderate) strong

Time: 1415	**Depth:** 2"	**Sample ID:** Ø1NE 2 8 S W 1 1 4 (prime) dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd

Laboratory Tests: (DRO) ~~RRO~~ ~~GRO~~ ~~BTEX~~ ~~VOC~~ ~~SVOC~~ ~~PAH~~ (PCB) ~~TAL metals~~

SEDIMENT SAMPLE INFORMATION

Collection method: stainless steel spoon, hand auger core

Cross-Section Number/Location (if applicable): CS-7

Time: 1455	**Depth:** 0.5'	**Point:** A	**Sample ID:** Ø1NE 2 8 S D 1 4 7 (prime) dup trip split ms/msd
Time: 1505	**Depth:** 1.5'	**Point:** A	**Sample ID:** Ø1NE 2 8 S D 1 4 8 (prime) dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ 2 4 8 prime (dup) trip split ms/msd 1/8 cm
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ 3 4 8 prime dup (trip) split ms/msd 1/8 cm
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ 4 4 8 prime dup trip (split) ms/msd 1/4 2 cm
Time: 1510	**Depth:** 0.5'	**Point:** B	**Sample ID:** Ø1NE 2 8 S D 1 4 9 (prime) dup trip split ms/msd
Time: 1520	**Depth:** 1.5'	**Point:** B	**Sample ID:** Ø1NE 2 8 S D 1 5 0 (prime) dup trip split ms/msd
Time: 1530	**Depth:** 0.5'	**Point:** C	**Sample ID:** Ø1NE 2 8 S D 1 5 1 (prime) dup trip split ms/msd
Time: 1535	**Depth:** 0.5'	**Point:** C	**Sample ID:** Ø1NE 2 8 S D 2 5 1 prime (dup) trip split ms/msd
Time: 1530	**Depth:** 0.5'	**Point:** C	**Sample ID:** Ø1NE 2 8 S D 3 5 1 prime dup (trip) split ms/msd
Time: 1530	**Depth:** 0.5'	**Point:** C	**Sample ID:** Ø1NE 2 8 S D 4 5 1 prime dup trip (split) ms/msd
Time: 1545	**Depth:** 1.5'	**Point:** C	**Sample ID:** Ø1NE 2 8 S D 1 5 2 (prime) dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd

Laboratory Tests: (DRO) RRO ~~GRO~~ ~~BTEX~~ ~~VOC~~ (PAH) (PCB) ~~Pesticides~~ ~~TAL metals~~ Pb Zn Cr (TOC) Geotech

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	**CS #:** 7	Page 2 of 2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8/19-01 | **Sampler(s):** M Markell, D Quist

Stream Name: Site 28

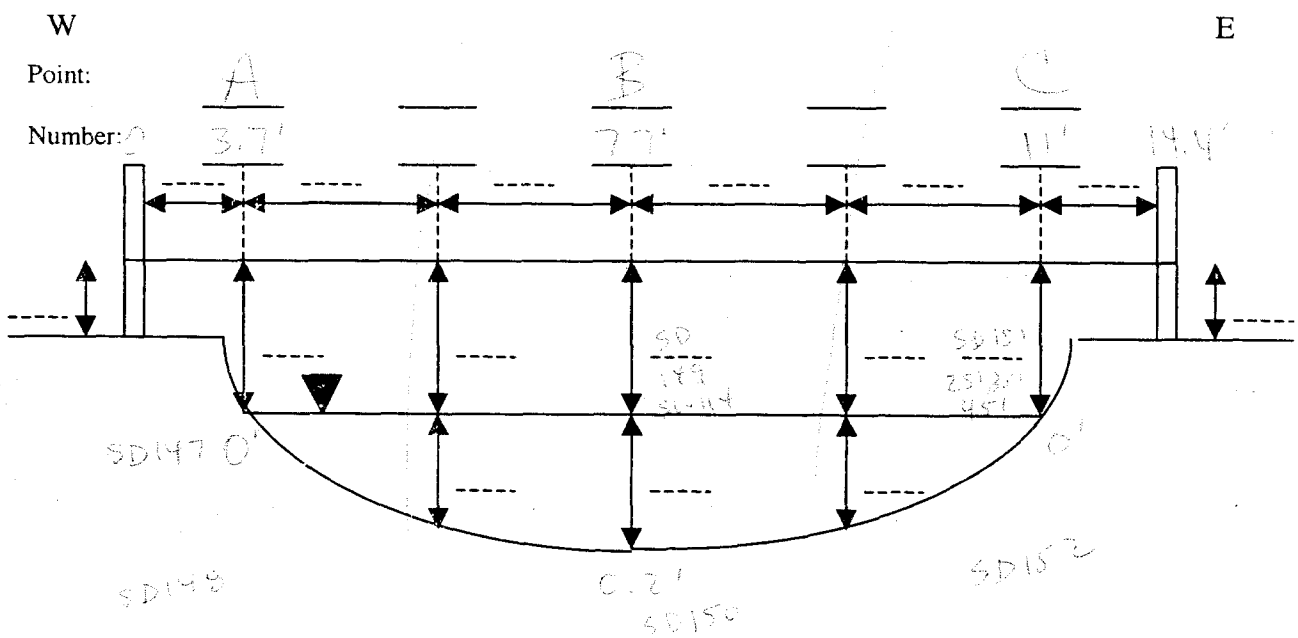
Appearance: See other side

Survey/Measurement Equipment: fiberglass tape, wood lath

Site Sketch (Plan View):

N

Cross-Section Sketch:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: Site 28 CS-8	Page 1 of 2
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-19-01	**Sampler(s):** Melissa Markell, Doug Quist		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Site 28	**Depth:** < 1 ft	**Width:** 8 ft
Appearance: channel full of debris (mainly sheet metal), fuel sheen		
Cross-Section Number/Location (if applicable):		
Collection method: Disposable Teflon dipper	**Temp. ° C:**	**Cond. (umhos/cm):**
	pH:	**CS Collection Point:**
Sheen: none slight moderate abundant	**Odor:** none slight moderate strong	

Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd

Laboratory Tests: DRO RRO GRO BTEX VOC SVOC PAH PCB TAL metals

SEDIMENT SAMPLE INFORMATION

Collection method: Stainless steel spoon, hand auger core

Cross-Section Number/Location (if applicable): CS-8

Time:	Depth:	Point:	Sample ID: Ø1NE
1610	0.5'	A	28SD153 prime dup trip split ms/msd
(1615)	0.5'	A	28SD253 prime (dup) trip split ms/msd
1620	0.5'	A	28SD353 prime dup (trip) split ms/msd
1620	1.5'	A	28SD154 (prime) dup trip split ms/msd
1625	0.5'	B	28SD155 (prime) dup trip split ms/msd
1630	1.5'	B	28SD156 (prime) dup trip split ms/msd
1635	0.5'	C	28SD157 (prime) dup trip split ms/msd
(1640)	0.5'	C	28SD257 prime (dup) trip split ms/msd
1635	0.5'	C	28SD357 prime dup (trip) split ms/msd
1645	1.5'	C	28SD158 (prime) dup trip split ms/msd
			Sample ID: Ø1NE _____ prime dup trip split ms/msd
			Sample ID: Ø1NE _____ prime dup trip split ms/msd
			Sample ID: Ø1NE _____ prime dup trip split ms/msd
			Sample ID: Ø1NE _____ prime dup trip split ms/msd
			Sample ID: Ø1NE _____ prime dup trip split ms/msd

Laboratory Tests: (DRO) (RRO) ~~GRO~~ BTEX VOC (PAH) (PCB) ~~Pesticides~~ ~~TAL metals~~ (Pb Zn Cr TOC) ~~Geotech~~

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	**CS #:** 8	Page 2 of 2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-19-01 | **Sampler(s):** M. Markell, D. Quist

Stream Name: Site 28

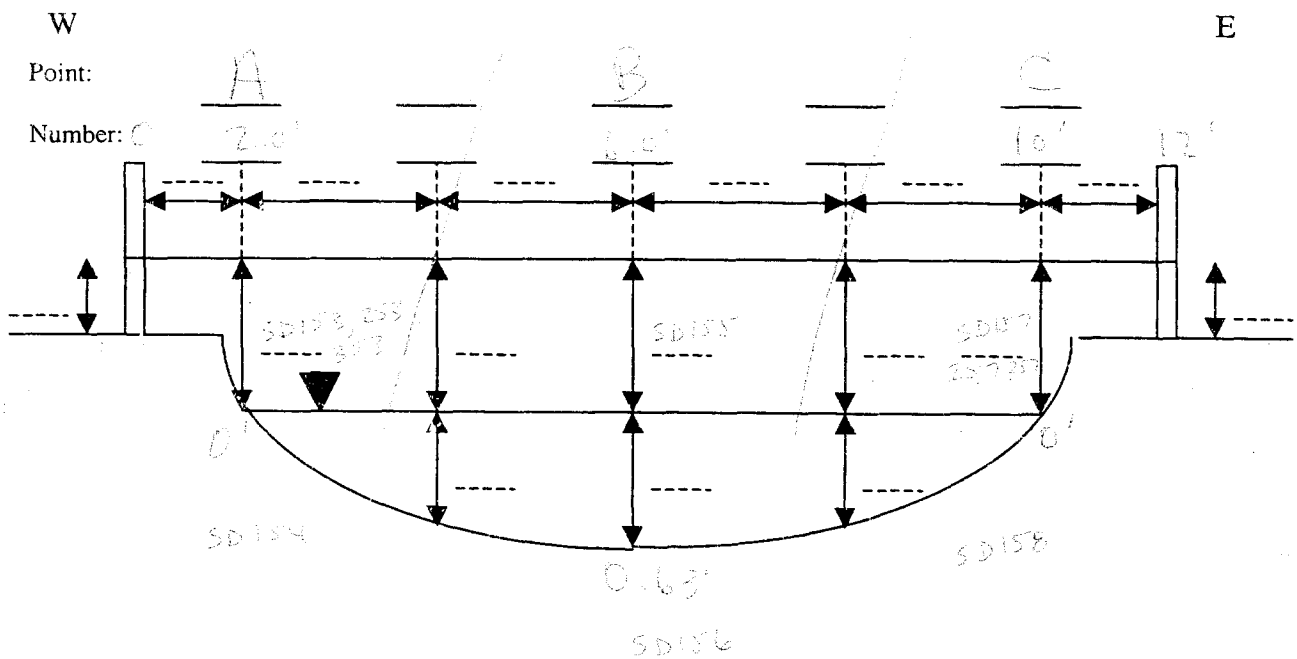
Appearance: See other side

Survey/Measurement Equipment: 4 tape gloss tape, wooden lath

Site Sketch (Plan View):

N

Cross-Section Sketch:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: Site 28, CS-9	Page 1 of 2
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8/20/01	**Sampler(s):** Melissa Markell, Doug Quist		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Site 28	**Depth:** 0.5 ft	**Width:** 8.0 ft
Appearance: abundant debris, scum		
Cross-Section Number/Location (if applicable): CS-9		
Collection method: 8/19/01 Disposable Teflon dipper	**Temp. ° C:** 5.3	**Cond. (~~umhos/cm~~):** 81.7 uS
	pH: 6.96	**CS Collection Point:** DO: HACH 9.2 mg/L YSI 9.6 mg/L
Sheen: none slight moderate abundant		**Odor:** none slight moderate strong

Time: 1430	**Depth:** 2"	**Sample ID:** Ø1NE 2 8 S W 1 1 5 prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd

Laboratory Tests: DRO RRO GRO ~~BTEX VOC SVOC~~ PAH PCB ~~TAL metals~~

SEDIMENT SAMPLE INFORMATION

Collection method: Stainless steel spoon, hand auger core

Cross-Section Number/Location (if applicable): CS-9

Time: 1355	**Depth:** 6"	**Point:** A	**Sample ID:** Ø1NE 2 8 S D 1 5 9 prime dup trip split ms/msd
Time: 1405	**Depth:** 12"	**Point:** A	**Sample ID:** Ø1NE 2 8 S D 1 6 0 prime dup trip split ms/msd
Time: 1410	**Depth:** 6"	**Point:** B	**Sample ID:** Ø1NE 2 8 S D 1 6 1 prime dup trip split ms/msd
Time: NC	**Depth:** NC	**Point:** B	**Sample ID:** Ø1NE _ _ _ _ 1 6 2 not collected ~~prime dup trip split ms/msd~~
Time: 1430	**Depth:** 6"	**Point:** C	**Sample ID:** Ø1NE 2 8 S D 1 6 3 prime dup trip split ms/msd
Time: 1440	**Depth:** 1.5'	**Point:** C	**Sample ID:** Ø1NE 2 8 S D 1 6 4 prime dup trip split ms/msd
Time: 1435	**Depth:** 6"	**Point:** C	**Sample ID:** Ø1NE 2 8 S D 2 6 3 prime dup trip split ms/msd
Time: 1430	**Depth:** 6"	**Point:** C	**Sample ID:** Ø1NE 2 8 S D 3 6 3 prime dup trip split ms/msd
Time: 1430	**Depth:** 6"	**Point:** C	**Sample ID:** Ø1NE 2 8 S D 4 6 3 prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd

Laboratory Tests: DRO RRO ~~GRO BTEX VOC~~ PAH PCB ~~Pesticides TAL metals~~ Pb Zn Cr TOC ~~Geotech~~

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	**CS #:** 9	Page 2 of 2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-20-01 | **Sampler(s):** M. Markell, D. Quist

Stream Name: Site 29

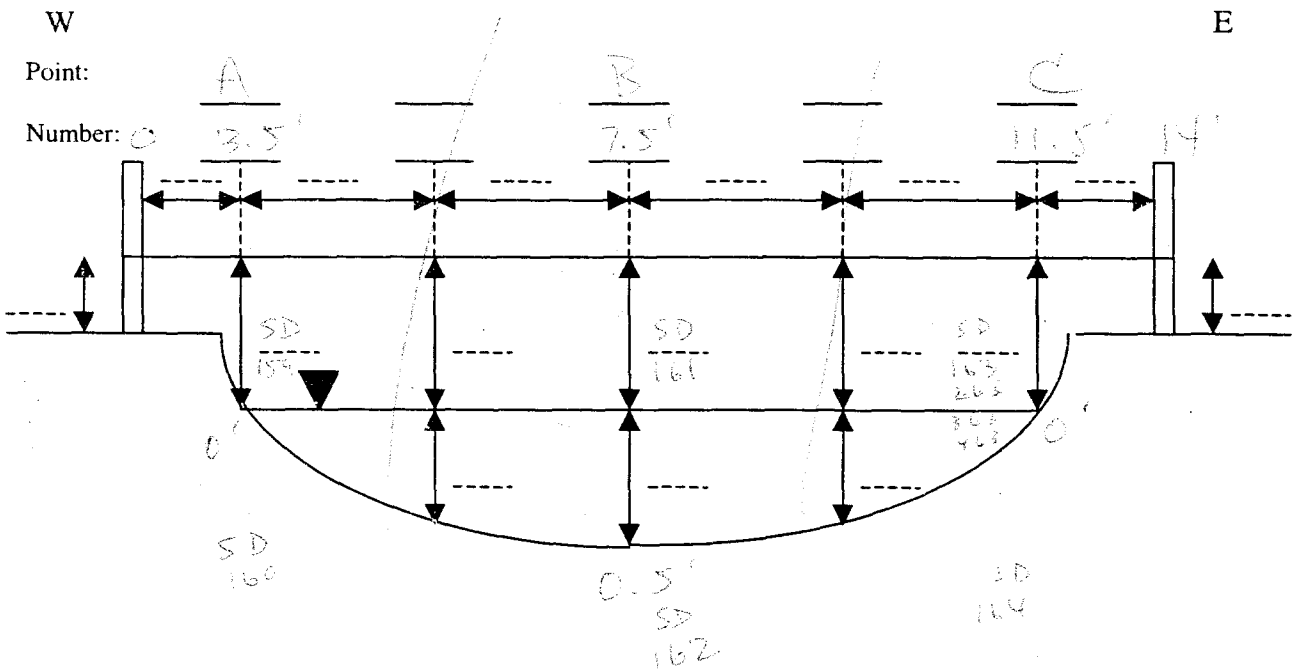
Appearance: See other side

Survey/Measurement Equipment: fiberglass Tape, wood lath

Site Sketch (Plan View):

N

Cross-Section Sketch:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: CS-10	Page 1 of 2
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-20-01	**Sampler(s):** Melissa Markell, Doug Quist		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Site 28	**Depth:** 0.6' ft	**Width:** 22 ft
Appearance: abundant debris, scum, fuel sheen		
Cross-Section Number/Location (if applicable): CS-10		
Collection method: Disposable Teflon dipper	**Temp. ° C:**	**Cond. (umhos/cm):**
	pH:	**CS Collection Point:**
Sheen: none slight moderate abundant	**Odor:** none slight moderate strong	

Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:** n/a	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd

Laboratory Tests: DRO RRO GRO BTEX VOC SVOC PAH PCB TAL metals

SEDIMENT SAMPLE INFORMATION

Collection method: stainless steel spoon, hand auger core

Cross-Section Number/Location (if applicable):

Time: 1450	**Depth:** 6"	**Point:** A	**Sample ID:** Ø1NE 28SD165 prime dup trip split ms/msd
Time: 1455	**Depth:** 1.5'	**Point:** A	**Sample ID:** Ø1NE 28SD166 prime dup trip split ms/msd
Time: 1505	**Depth:** 6"	**Point:** B	**Sample ID:** Ø1NE 28SD167 prime dup trip split ms/msd
Time: 1510	**Depth:** 1.5'	**Point:** B	**Sample ID:** Ø1NE 28SD168 prime dup trip split ms/msd
Time: 1515	**Depth:** 6"	**Point:** C	**Sample ID:** Ø1NE 28SD169 prime dup trip split ms/msd
Time: 1530	**Depth:** 8"	**Point:** C	**Sample ID:** Ø1NE 28SD170 prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd

Laboratory Tests: ~~DRO~~ ~~RRO~~ ~~GRO~~ ~~BTEX~~ ~~VOC~~ PAH PCB ~~Pesticides~~ ~~TAL metals~~ Pb Zn Cr TOC ~~Geotech~~

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	**CS #:** 10	Page 2 of 2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-20-01 | **Sampler(s):** M. Marked, D. Quist

Stream Name: Site 28

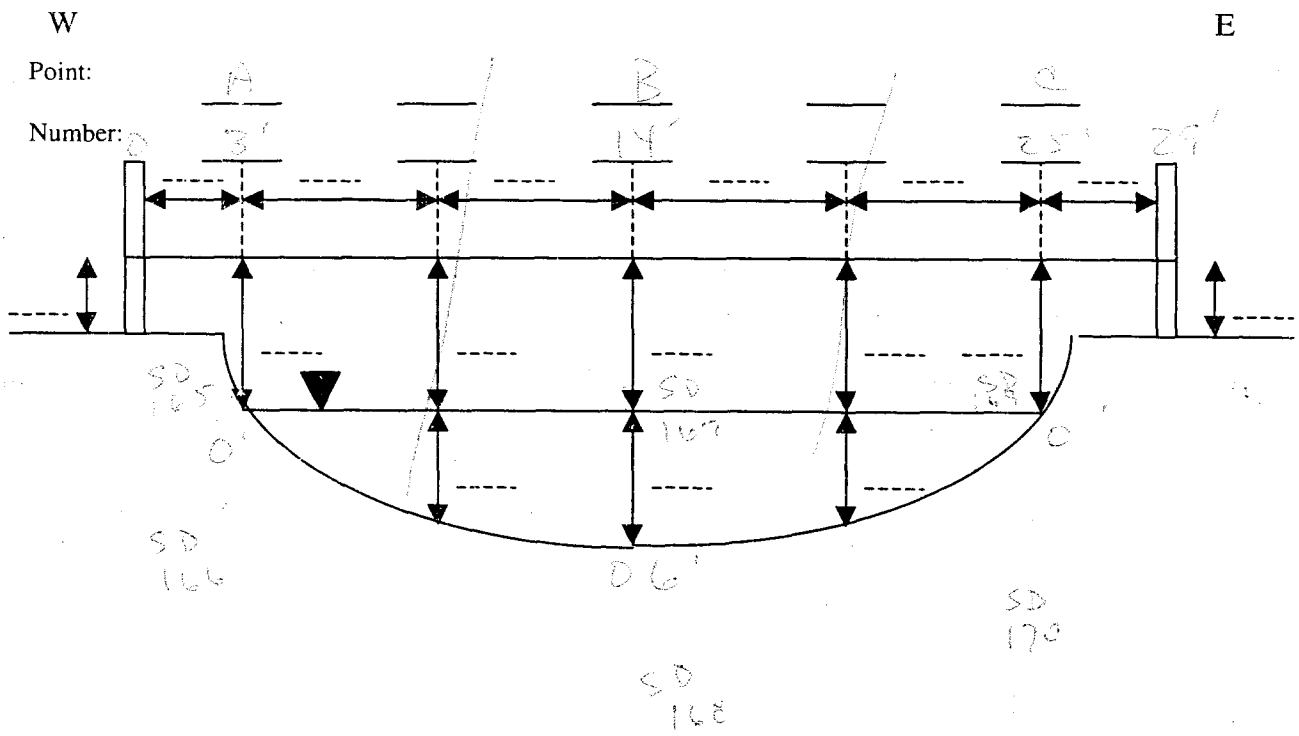
Appearance: see other side

Survey/Measurement Equipment: Fiberglass tape, wood lath

Site Sketch (Plan View):

N

Cross-Section Sketch:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: CS-11	Page 1 of 2
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-20-01	**Sampler(s):** Melissa Markell, Doug Quist		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Site 28	**Depth:** < 3 inches ~~ft~~	**Width:** variable ft
Appearance: saturated soil with puddles, abundant vegetation		
Cross-Section Number/Location (if applicable): CS-11		
Collection method: Disposable Teflon dipper	**Temp. ° C:** 4.8	**Cond. (~~umhos/cm~~):** 66.6 uS
	pH: 8.61	**~~CS Collection Point~~:** DO:
Sheen: none slight moderate abundant	**Odor:** none slight moderate strong	

Time: 1010	**Depth:** 2"	**Sample ID:** Ø1NE 2 8 S W 1 1 6 prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd

Laboratory Tests: DRO RRO ~~GRO BTEX VOC SVOC~~ PAH PCB ~~TAL metals~~

SEDIMENT SAMPLE INFORMATION

Collection method: stainless steel spoon, hand auger core

Cross-Section Number/Location (if applicable): CS-11

Time: 1020	**Depth:** 6"	**Point:** A	**Sample ID:** Ø1NE 2 8 S D 1 7 1 prime dup trip split ms/msd
Time: (1025)	**Depth:** 6"	**Point:** A	**Sample ID:** Ø1NE 2 8 S D 2 7 1 prime dup trip split ms/msd
Time: 1020	**Depth:** 6"	**Point:** A	**Sample ID:** Ø1NE 2 8 S D 3 7 1 prime dup trip split ms/msd
Time: 1020	**Depth:** 6"	**Point:** A	**Sample ID:** Ø1NE 2 8 S D 4 7 1 prime dup trip split ms/msd
Time: 1030	**Depth:** 6"	**Point:** B	**Sample ID:** Ø1NE 2 8 S D 1 7 2 prime dup trip split ms/msd
Time: 1035	**Depth:** 6"	**Point:** C	**Sample ID:** Ø1NE 2 8 S D 1 7 3 prime dup trip split ms/msd
Time: 1040	**Depth:** 12"	**Point:** C	**Sample ID:** Ø1NE 2 8 S D 1 7 4 prime dup trip split ms/msd
Time: 1045	**Depth:** 6"	**Point:** D	**Sample ID:** Ø1NE 2 8 S D 2 7 4 prime dup trip split ms/msd
Time: 1050	**Depth:** 6"	**Point:** D	**Sample ID:** Ø1NE 2 8 S D X 2 7 4 prime dup trip split ms/msd
Time: 1045	**Depth:** 6"	**Point:** D	**Sample ID:** Ø1NE 2 8 S D 3 7 5 prime dup trip split ms/msd
Time: 1055	**Depth:** 6"	**Point:** E	**Sample ID:** Ø1NE 2 8 S D 1 7 6 prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd

Laboratory Tests: DRO RRO ~~GRO BTEX VOC~~ PAH PCB ~~Pesticides TAL metals~~ Pb Zn Cr TOC ~~Geotech~~

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	**CS #:** 11	Page 2 of 2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-20-01 | **Sampler(s):** Melissa Markuk, Doug Gunst

Stream Name: Site 29

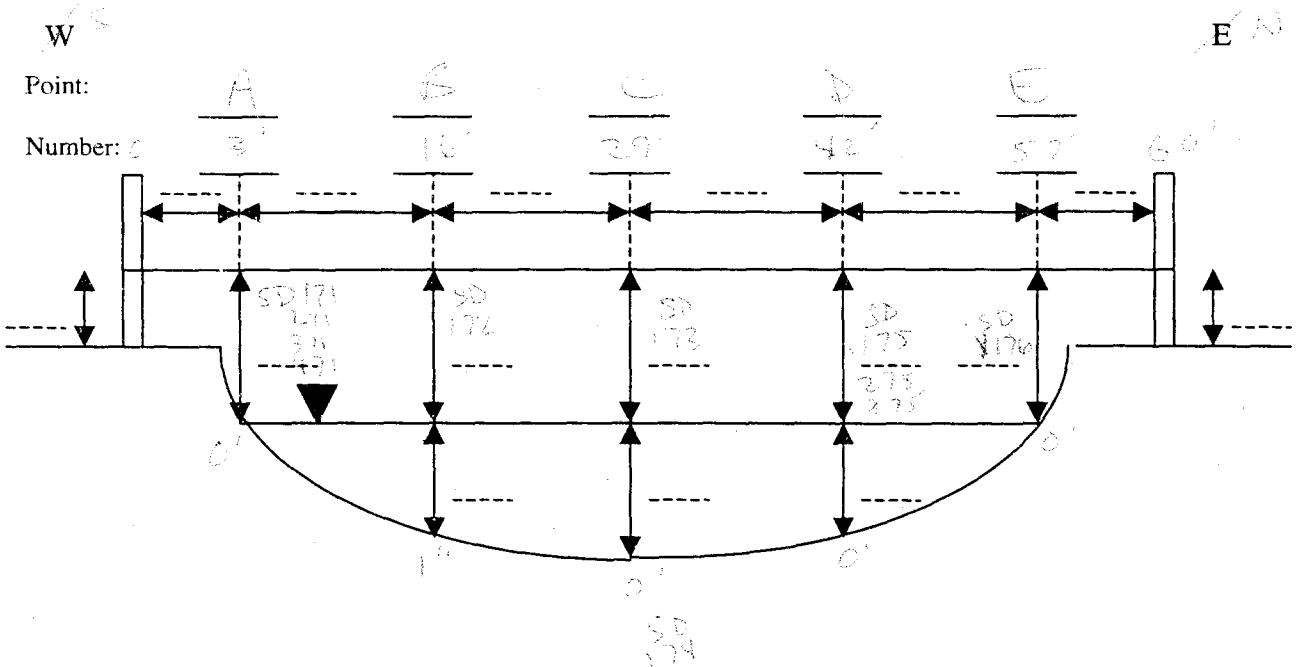
Appearance: See other side

Survey/Measurement Equipment: fiberglass tape, wood lath

Site Sketch (Plan View):

N

Cross-Section Sketch:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: CS-12	Page 1 of 2
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-20-01	**Sampler(s):** Melissa Markell, Doug Quist		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Site 28 **Depth:** up to 3" ~~ft~~ **Width:** variable ft

Appearance: saturated soil w/ puddles, vegetation, disturbed area at south end

Cross-Section Number/Location (if applicable): CS-12

Collection method: Disposable Teflon dipper **Temp. ° C:** **Cond. (umhos/cm):** **pH:** **CS Collection Point:**

Sheen: none slight moderate abundant **Odor:** none ~~slight~~ moderate strong

Time:	Depth:	Sample ID: Ø1NE _____ prime dup trip split ms/msd
Time:	Depth: N/A	Sample ID: Ø1NE _____ prime dup trip split ms/msd
Time:	Depth:	Sample ID: Ø1NE _____ prime dup trip split ms/msd

Laboratory Tests: DRO RRO GRO BTEX VOC SVOC PAH PCB TAL metals

SEDIMENT SAMPLE INFORMATION

Collection method: stainless steel spoon, hand auger core

Cross-Section Number/Location (if applicable): CS-12

Time:	Depth:	Point:	Sample ID: Ø1NE
1115	6"	A	28SD178 prime dup trip split ms/msd
1120	6"	B	28SD178 prime dup trip split ms/msd
1125	6"	C	28SD179 prime dup trip split ms/msd
1130	18"	C	28SD180 prime dup trip split ms/msd
1135	6"	D	28SD181 prime dup trip split ms/msd
1140	6"	E	28SD182 prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _____ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _____ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _____ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _____ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _____ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _____ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _____ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _____ prime dup trip split ms/msd

Laboratory Tests: (DRO RRO) ~~GRO BTEX~~ VOC (PAH PCB) ~~Pesticides TAL metals~~ (Pb Zn Cr TOC) ~~Geotech~~

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	**CS #:** 12	Page 2 of 2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-20-01 | **Sampler(s):** M. Markell, Doug Quast

Stream Name: site 28

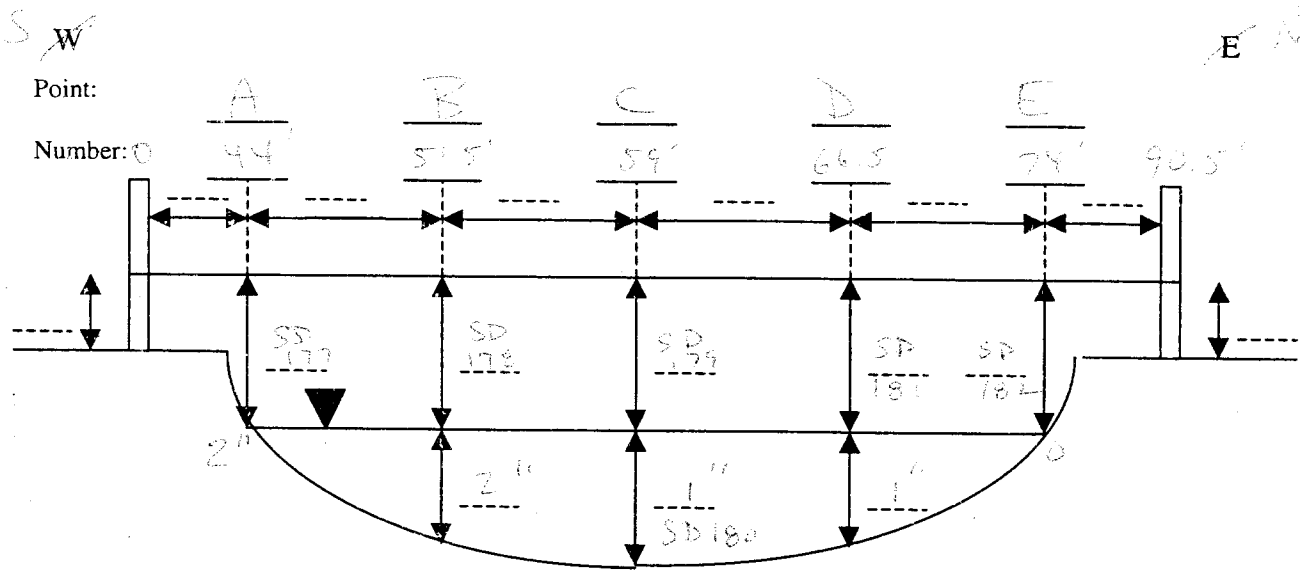
Appearance: see other side

Survey/Measurement Equipment: fiberglass tape, wood lath

Site Sketch (Plan View):

N

Cross-Section Sketch:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: SC-1	Page 1 of 2
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-21-01	**Sampler(s):** Melissa Markell, Doug Dust		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Sugi River	**Depth:** 1.35 ft	**Width:** 8.0 ft
Appearance: clear, no sheen or odor		
Cross-Section Number/Location (if applicable): SC-1		
Collection method: Disposable Teflon dipper	**Temp. ° C:** 7.6 / Turb. 1.50 NTU	**Cond. (~~umhos/cm~~):** 1384 uS
	pH: 7.47	**~~CS Collection Point~~:** HACH DO: 11.0 mg/L
Sheen: (none) slight moderate abundant	**Odor:** (none) slight moderate strong	

Time: 1625	**Depth:** 3"	**Sample ID:** Ø1NE 2 9 5 W 1 1 4 prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd

Laboratory Tests: DRO RRO GRO BTEX ~~VOC SVOC~~ PAH PCB TAL metals

SEDIMENT SAMPLE INFORMATION

Collection method: hand auger core

Cross-Section Number/Location (if applicable): SC-1

Time: 1630	**Depth:** 6"	**Point:** A	**Sample ID:** Ø1NE 2 9 5 D 1 1 4 (prime) dup trip split (ms/msd)
Time: (1635)	**Depth:** 6"	**Point:** A	**Sample ID:** Ø1NE 2 9 5 D 2 1 4 prime (dup) trip split ms/msd
Time: 1630	**Depth:** 6"	**Point:** A	**Sample ID:** Ø1NE 2 9 5 D 3 1 4 prime dup (trip) split ms/msd
Time: 1630	**Depth:** 6"	**Point:** A	**Sample ID:** Ø1NE 2 9 5 D 4 1 4 prime dup trip (split) ms/msd
Time: 1650	**Depth:** 6"	**Point:** B	**Sample ID:** Ø1NE 2 9 5 D 1 1 5 (prime) dup trip split ms/msd
Time: 1705	**Depth:** 6"	**Point:** C	**Sample ID:** Ø1NE 2 9 5 D 1 1 6 (prime) dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd

Laboratory Tests: (DRO RRO) ~~GRO BTEX~~ VOC (PAH PCB) ~~Pesticides TAL metals~~ Pb Zn Cr TOC ~~Geotech~~

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	CS #: SC-1	Page 2 of 2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8 21-01 | **Sampler(s):** N Markell, D Gust

Stream Name: Sugi River

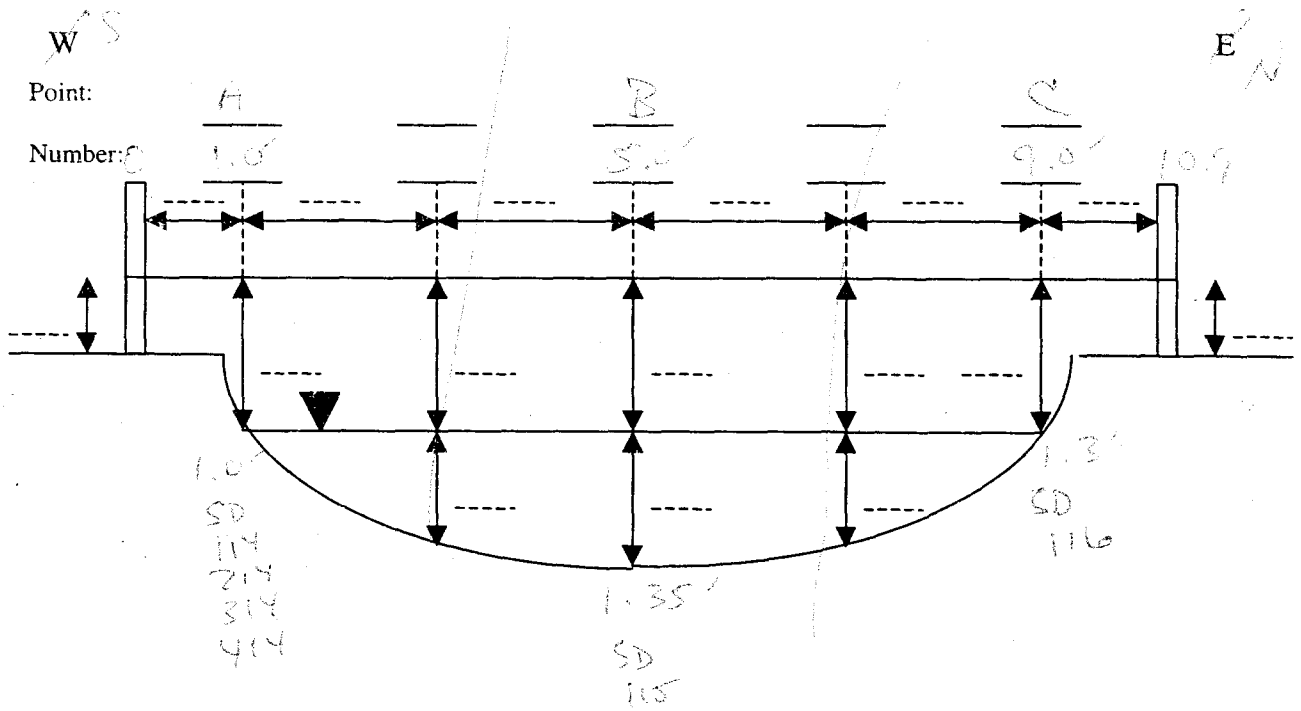
Appearance: See other side

Survey/Measurement Equipment: Fiberglass tape, wood lath

Site Sketch (Plan View):

N

Cross-Section Sketch:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: ~~SC~~ SC-2	Page 1 of 2
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date:	**Sampler(s):**		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Sugi River	**Depth:** ~~2.0 1.5~~ ft	**Width:** 20.5 ft
Appearance: clear, wide spot in river with eddy		
Cross-Section Number/Location (if applicable): SC-2		
Collection method: Disposable Teflon dipper	**Temp. ° C:** 7.2	**Cond. (~~umhos/cm~~):** 142.3 uS
	pH: 7.38 turb: 1.2 NTU	**~~CS Collection Point:~~** Hach DO: 10.8
Sheen: (none) slight moderate abundant	**Odor:** (none) slight moderate strong	

Time: 1530	**Depth:** 3"	**Sample ID:** Ø1NE 2 9 5 W 1 1 5 (prime) dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd

Laboratory Tests: DRO RRO GRO BTEX ~~VOC SVOC~~ PAH PCB TAL metals

SEDIMENT SAMPLE INFORMATION

Collection method: hand auger core

Cross-Section Number/Location (if applicable): SC-2

Time: 1540	**Depth:** 6"	**Point:** A	**Sample ID:** Ø1NE 2 9 5 D 1 1 7 (prime) dup trip split ms/msd
Time: 1545	**Depth:** 6"	**Point:** B	**Sample ID:** Ø1NE 2 9 5 D 1 1 8 (prime) dup trip split ms/msd
Time: 1550	**Depth:** 6"	**Point:** C	**Sample ID:** Ø1NE 2 9 5 D 1 1 9 (prime) dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd

Laboratory Tests: (DRO RRO) ~~GRO BTEX~~ (VOC) (PAH PCB) ~~Pesticides TAL metals~~ (Pb Zn Cr TOC) ~~Geotech~~

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	**CS #:** SC-2	Page 2 of 2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-21-01 | **Sampler(s):** M Markell, D. Quist

Stream Name: Sugi River

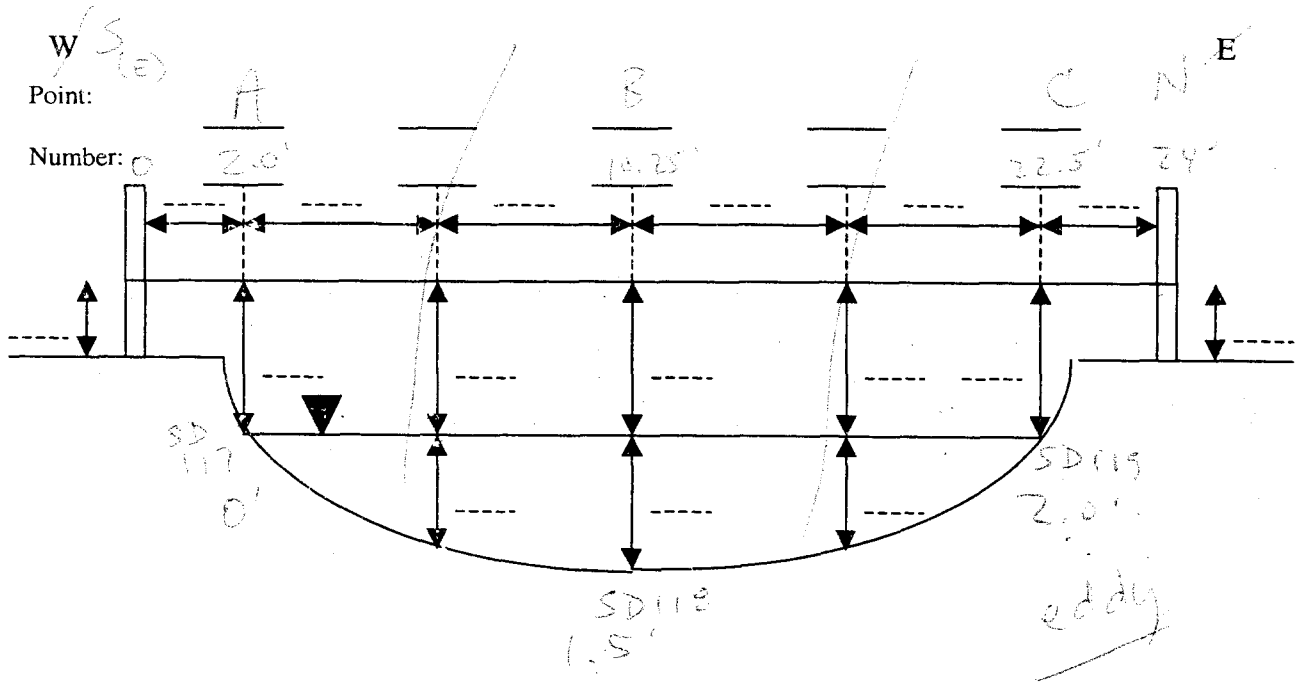
Appearance: see other side

Survey/Measurement Equipment: fiberglass tape, wood lath

Site Sketch (Plan View):

N

Cross-Section Sketch:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

~~CS~~ SC-3

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: SW/SD 116	Page 1 of 2
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-21-01	**Sampler(s):** Melissa Markell, Doug Quist		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Sagi River	**Depth:** 1.2 ft	**Width:** 13 ft	
Appearance: clear, no sheen when sediments disturbed			
Cross-Section Number/Location (if applicable): SC-3			
Collection method: Disposable Teflon dipper	**Temp. ° C:** 6.9	**Cond. ~~(umhos/cm)~~:** 2.175 mS	turb. 2.08 NTU
	pH: 7.43	**CS ~~Collection Point~~:** Hach DO: 11.0 mg/L	
Sheen: (none) slight moderate abundant		**Odor:** (none) slight moderate strong	
Time: 1335	**Depth:** 3"	**Sample ID:** Ø1NE 2 9 5 W 1 1 6 (prime) dup trip split ms/msd	
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd	
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd	

Laboratory Tests: DRO RRO GRO BTEX ~~VOC SVOC~~ PAH PCB TAL metals

SEDIMENT SAMPLE INFORMATION

Collection method: ~~Stainless steel~~ hand auger core

Cross-Section Number/Location (if applicable):

Time	Depth	Point	Sample ID: Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time: 1405	Depth: 6"	Point: A	Sample ID: Ø1NE 2 9 5 D 1 2 0 (prime) dup trip split ms/msd
Time: 1405	Depth: 6"	Point: B	Sample ID: Ø1NE 2 9 5 D 1 2 1 (prime) dup trip split ms/msd
Time: 1415	Depth: 6"	Point: C	Sample ID: Ø1NE 2 9 5 D 1 2 2 (prime) dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ prime dup trip split ms/msd

Laboratory Tests: (DRO RRO) ~~GRO~~ BTEX (VOC) (PAH PCB) Pesticides TAL metals (Pb Zn Cr TOC) ~~Geotech~~

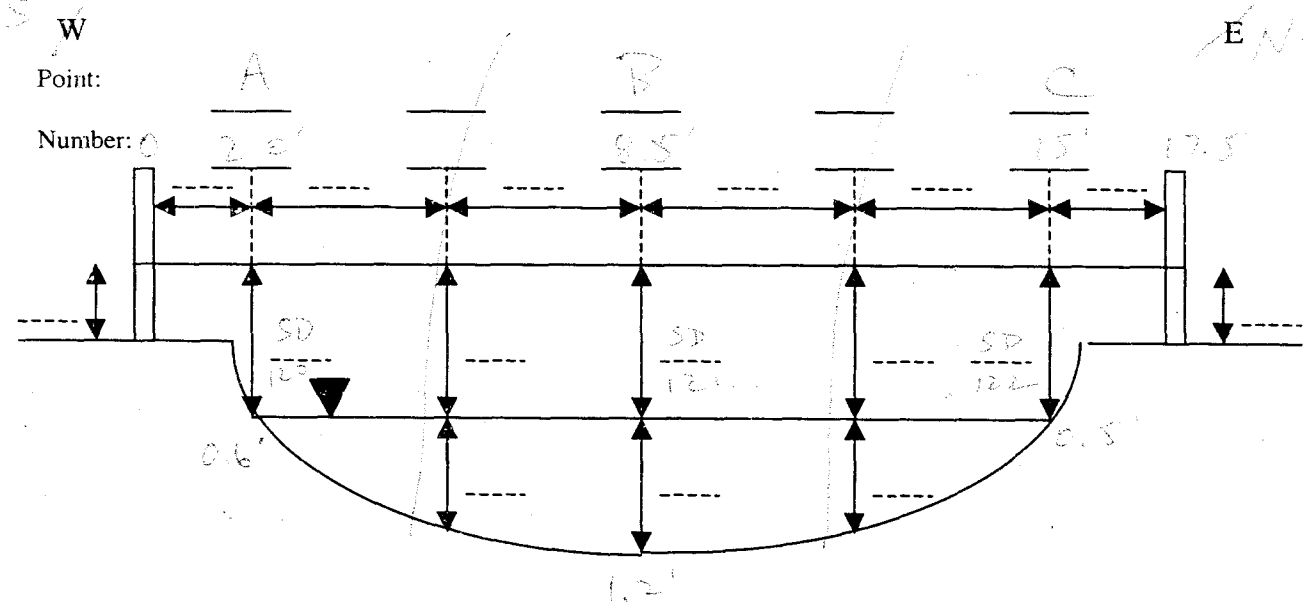
STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	CS #: SC-3	Page 2 of 2

Project: NEC 2001 Phase III RI	**Client:** USAED
Date: 8-11-01	**Sampler(s):** M. Marbell, D Quinn
Stream Name: Sugi	
Appearance: See other side	
Survey/Measurement Equipment: Rbeglas, tape, wood lath	

Site Sketch (Plan View):

N

Cross-Section Sketch:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: Site 29 CS-4	Page 1 of 2
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-21-01	**Sampler(s):** Johanna Dreher & Doug Quist		

SURFACE WATER SAMPLE INFORMATION			
Stream Name: Sugi River	**Depth:** ft	**Width:** ft	
Appearance: Clear no sheen or Odor			
Cross-Section Number/Location (if applicable): CS-4			
Collection method: Disposable Teflon ~~dipper~~	**Temp. ° C:**	**Cond. (umhos/cm):**	
	pH:	**CS Collection Point:**	
Sheen: none slight moderate abundant	**Odor:** none slight moderate strong		
Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd	
Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd	
Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd	
Laboratory Tests: DRO RRO GRO BTEX VOC SVOC PAH PCB TAL metals			

SEDIMENT SAMPLE INFORMATION			
Collection method: hand auger core			
Cross-Section Number/Location (if applicable):			
Time: 0900	**Depth:** 6"	**Point:** A	**Sample ID:** Ø1NE 29SD123 (prime) dup trip split ms/msd
Time: 0910	**Depth:** 3ft	**Point:** B	**Sample ID:** Ø1NE 29SD124 (prime) dup trip split ms/msd
Time: 0940	**Depth:** 1.7ft	**Point:** C	**Sample ID:** Ø1NE 29SD125 (prime) dup trip split ms/msd
Time: 0955	**Depth:** 1.7ft	**Point:** C	**Sample ID:** Ø1NE 29SD225 prime (dup) trip split ms/msd
Time: 1000	**Depth:** 1.7ft	**Point:** C	**Sample ID:** Ø1NE 29SD325 prime dup (trip) split ms/msd
Time: 1005	**Depth:** 1.7ft	**Point:** C	**Sample ID:** Ø1NE 29SD425 prime dup trip (split) ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Laboratory Tests: (DRO) RRO GRO BTEX VOC (PAH) (PCB) Pesticides TAL metals (Pb Zn Cr) (TOC) Geotech			

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	**CS #:** CS-4	Page 2 of 2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 5-21-01 | **Sampler(s):** Dreher, Quast

Stream Name: Swift

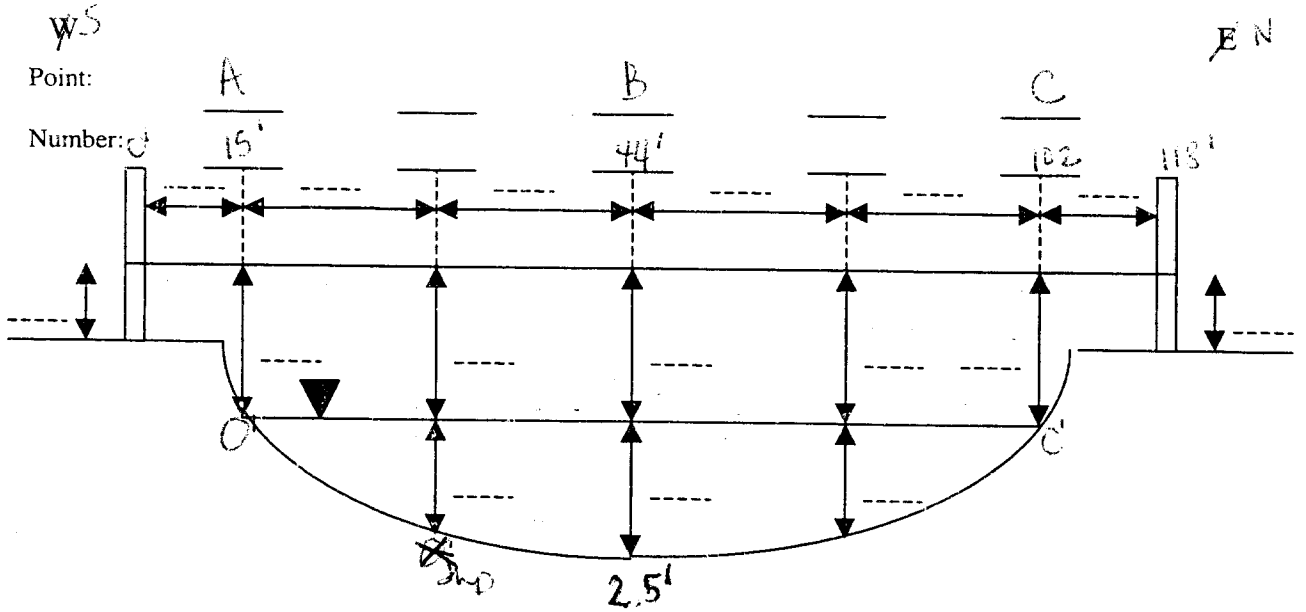
Appearance: clear no sheen or odor

Survey/Measurement Equipment: fiber glass tape, wood lath

Site Sketch (Plan View):

N

Cross-Section Sketch:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: Site 29	Page 1 of 1
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-20-01	**Sampler(s):** Johanna Dreher & Doug Quist		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Sugi River	**Depth:** ft	**Width:** ft

Appearance: Clear, no sheen or odor

Cross-Section Number/Location (if applicable): —

Collection method: Disposable Teflon dipper	**Temp. ° C:** 8.3	**Cond. (umhos/cm):** 233
	pH: 8.3	~~**CS Collection Point:**~~ HACH DO 11 mg/L

Sheen: (none) slight moderate abundant **Odor:** (none) slight moderate strong

Time: 1940	**Depth:** 2"	**Sample ID:** Ø1NE 2 9 S W 1 1 7 (prime) dup trip split ms/msd
Time: 1945	**Depth:** 2"	**Sample ID:** Ø1NE 2 9 S W 2 1 7 prime (dup) trip split ms/msd
Time: 1950	**Depth:** 2"	**Sample ID:** Ø1NE 2 9 S W 3 1 7 prime dup (trip) split ms/msd

Laboratory Tests: (DRO/ RRO) (GRO/ BTEX) VOC SVOC (PAH) (PCB) (TAL metals)

SEDIMENT SAMPLE INFORMATION

Collection method:

Cross-Section Number/Location (if applicable):

Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	Sample ID: Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd

Laboratory Tests: DRO RRO GRO BTEX VOC PAH PCB Pesticides TAL metals Pb Zn Cr TOC Geotech

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	**CS #:**	Page 2 of 2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: | **Sampler(s):**

Stream Name:

Appearance:

Survey/Measurement Equipment:

Site Sketch (Plan View):

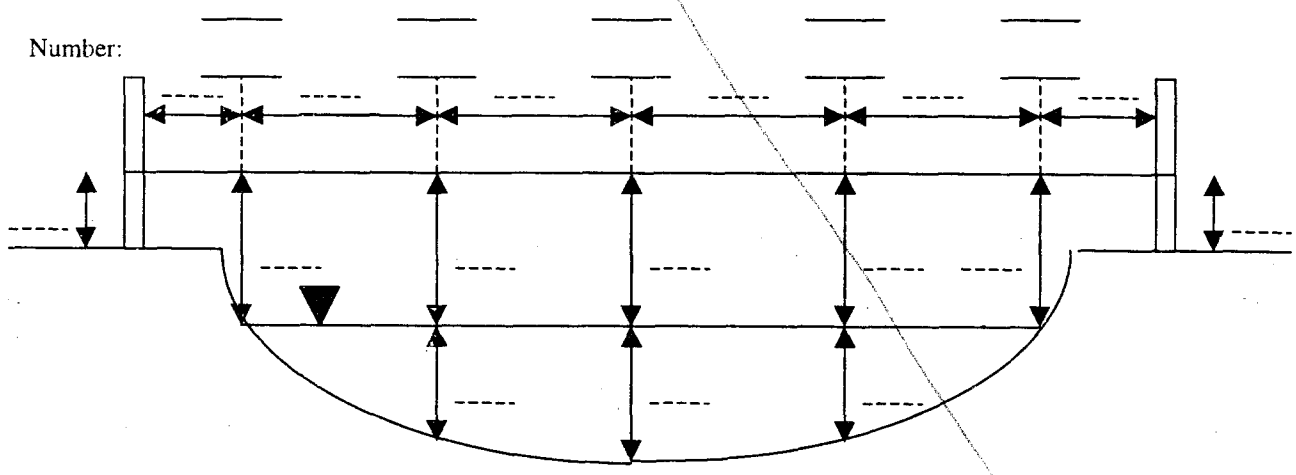
N

Cross-Section Sketch:

W E

Point:

Number:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

Site 29

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: SD-126	Page 1 of 1
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-21-01	**Sampler(s):** M Markell, D Quist		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Sagi River	**Depth:** ≈ 1.5 ft	**Width:** ≈ 6 ft
Appearance: clear, no sheen or odor		
Cross-Section Number/Location (if applicable):		
Collection method: Disposable Teflon dipper	**Temp. ° C:**	**Cond. (umhos/cm):**
	pH:	**CS Collection Point:**
Sheen: none slight moderate abundant	**Odor:** none slight moderate strong	

Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd

Laboratory Tests: DRO RRO GRO BTEX VOC SVOC PAH PCB TAL metals

SEDIMENT SAMPLE INFORMATION

Collection method: hand auger core

Cross-Section Number/Location (if applicable): —

Time: 1300	**Depth:** 6"	**Point:** na	**Sample ID:** Ø1NE 29SD126 (prime) dup trip split ms/msd
Time: 1300	**Depth:** 6"	**Point:** na	**Sample ID:** Ø1NE 29SD426 prime dup trip (split) ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____ prime dup trip split ms/msd

Laboratory Tests: (DRO) RRO GRO BTEX ~~VOC~~ (PAH) (PCB) ~~Pesticides~~ (TAL metals) ~~Pb Zn Cr TOC Geotech~~

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	**CS #:**	Page 2 of 2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: | **Sampler(s):**

Stream Name:

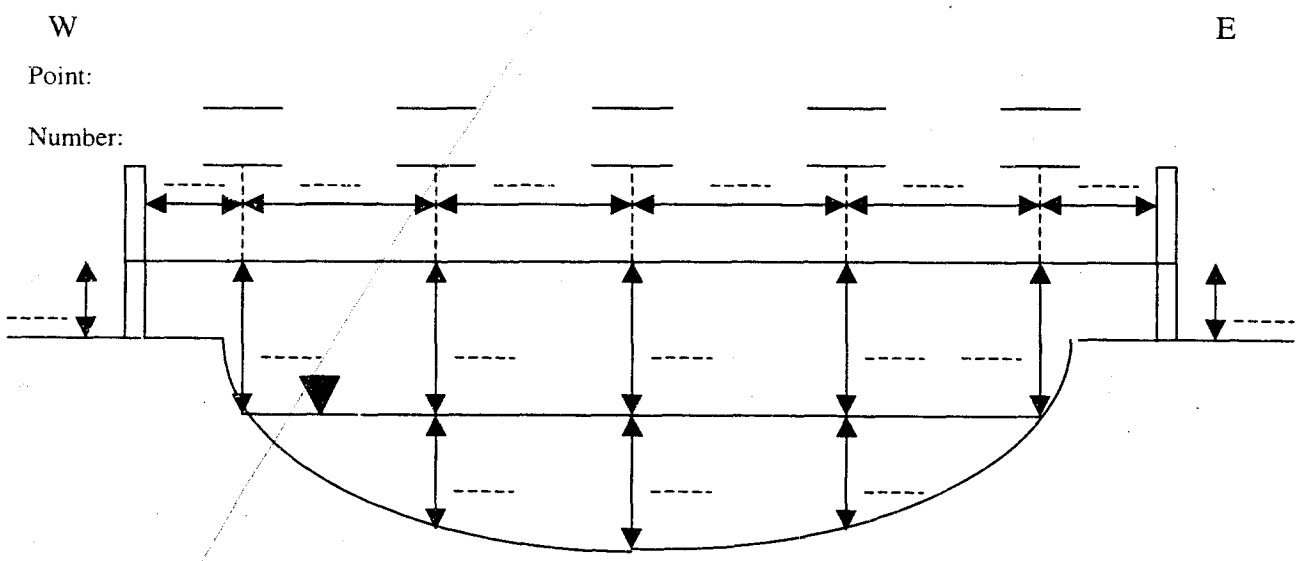
Appearance:

Survey/Measurement Equipment:

Site Sketch (Plan View):

N

Cross-Section Sketch:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

Site 29

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: SD 127	Page 1 of 1
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-21-01	**Sampler(s):** MMarkell, D Quist		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Sugi River	**Depth:** ≈ 1.5 ft	**Width:** ≈ 12 ft
Appearance: clear, with eddy, vegetation (sample taken in eddy)		
Cross-Section Number/Location (if applicable):		
Collection method: Disposable Teflon dipper	**Temp. ° C:**	**Cond. (umhos/cm):**
	pH:	**CS Collection Point:**
Sheen: none slight moderate abundant	**Odor:** none slight moderate strong	

Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd

Laboratory Tests: DRO RRO GRO BTEX VOC SVOC PAH PCB TAL metals

SEDIMENT SAMPLE INFORMATION

Collection method: hand auger core

Cross-Section Number/Location (if applicable): —

Time:	Depth:	Point:	
1740	6"	na	**Sample ID:** Ø1NE 2 9 S D 1 2 7 (prime) dup trip split ms/msd
1740	6"	na	**Sample ID:** Ø1NE 2 9 S D 4 2 7 prime dup trip (split) ms/msd
Time:	Depth:	Point:	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	Depth:	Point:	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd

Laboratory Tests: (DRO RRO GRO BTEX) ~~VOC~~ (PAH PCB) ~~Pesticides~~ (TAL metals) ~~Pb Zn Cr TOC Geotech~~

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	**CS #:**	Page 2 of 2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: | **Sampler(s):**

Stream Name:

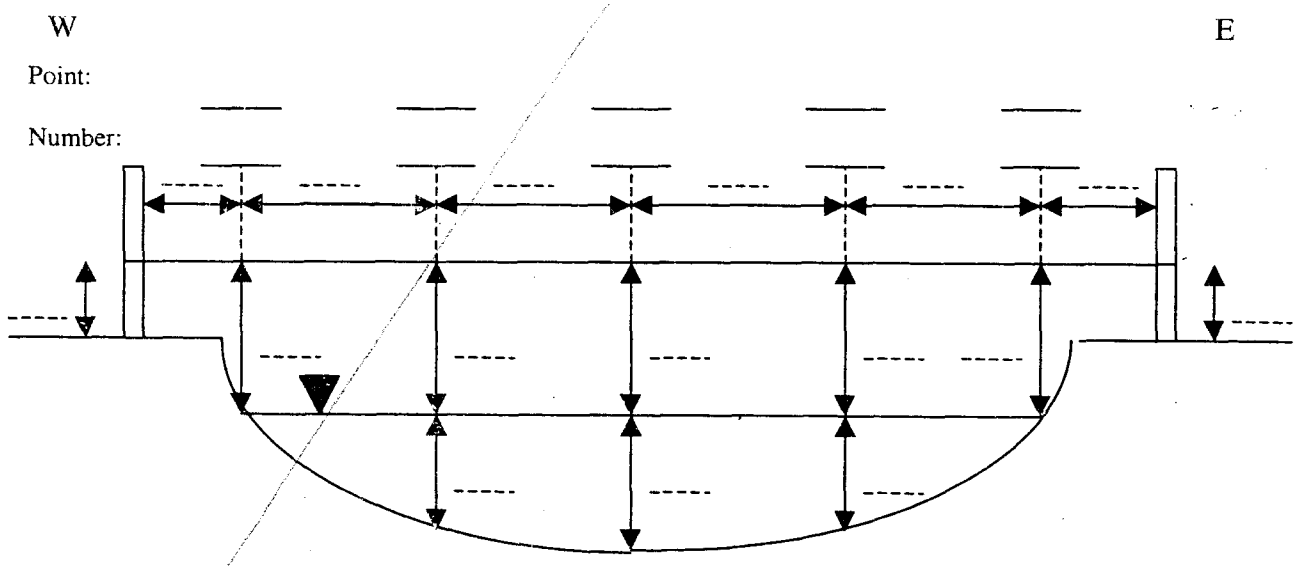
Appearance:

Survey/Measurement Equipment:

Site Sketch (Plan View):

N

Cross-Section Sketch:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: Site 29	Page 1 of 1
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-21-01	**Sampler(s):** J. Dreher, D. Quist		

SURFACE WATER SAMPLE INFORMATION

Stream Name: Sag River	**Depth:** ft	**Width:** ft
Appearance: Clear - no sheen or odor		
~~**Cross-Section Number/Location (if applicable):**~~		
Collection method: Disposable Teflon dipper	**Temp. ° C:**	**Cond. (umhos/cm):**
	pH:	**CS Collection Point:**
Sheen: none slight moderate abundant	**Odor:** none slight moderate strong	

Time:	**Depth:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd

Laboratory Tests: DRO RRO GRO BTEX VOC SVOC PAH PCB TAL metals

SEDIMENT SAMPLE INFORMATION

Collection method: hand auger Core

~~**Cross-Section Number/Location (if applicable):**~~

Time: 1025	**Depth:** 1.7'	**Point:** —	**Sample ID:** Ø1NE 29SD128	(prime) dup trip split ms/msd
Time: 1045	**Depth:** 1.7'	**Point:** —	**Sample ID:** Ø1NE 29SD129	(prime) dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _____	prime dup trip split ms/msd

Laboratory Tests: (DRO) (RRO) (GRO) (BTEX) VOC (PAH) (PCB) Pesticides (TAL metals) Pb Zn Cr TOC Geotech

STREAM CROSS-SECTION DIAGRAM	Project Number: 1850574.260120	**CS #:**	Page 2 of 2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: | **Sampler(s):**

Stream Name:

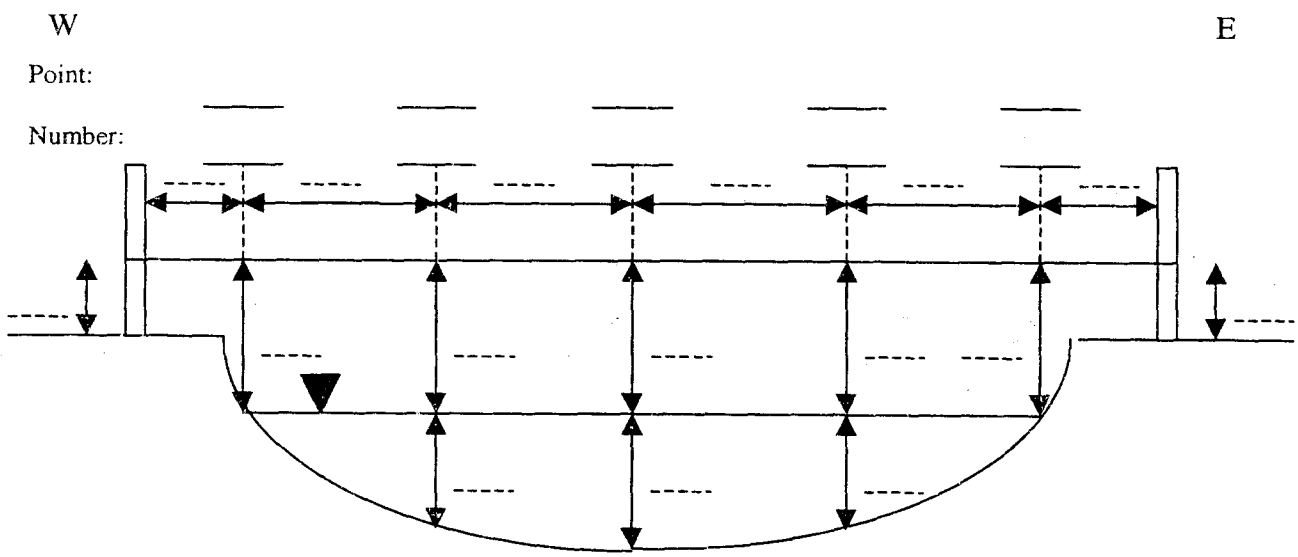
Appearance:

Survey/Measurement Equipment:

Site Sketch (Plan View):

N

Cross-Section Sketch:



Label sample points from west to east A, B, C, etc. The first sample at each point is 1, the next 2, etc.

SURFACE WATER AND SEDIMENT SAMPLING FIELD NOTE FORM	Project Number: 1850574.260110	Sample Location: 305D101	Page 1 of
Project: NEC 2001 Phase III RI	**Client:** USAED - Alaska		
Date: 8-24-01	**Sampler(s):** Doug Quist		

SURFACE WATER SAMPLE INFORMATION			
Stream Name:	**Depth:** ft	**Width:** ft	
Appearance:			
Cross-Section Number/Location (if applicable):			
Collection method: Disposable Teflon dipper	**Temp. ° C:**	**Cond. (umhos/cm):**	
	pH:	**CS Collection Point:**	
Sheen: none slight moderate abundant	**Odor:** none slight moderate strong		
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd	
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd	
Time:	**Depth:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd	
Laboratory Tests: DRO RRO GRO BTEX VOC SVOC PAH PCB TAL metals			

SEDIMENT SAMPLE INFORMATION			
Collection method: SS spoon			
Cross-Section Number/Location (if applicable):			
Time: 1040	**Depth:** surface	**Point:**	**Sample ID:** Ø1NE 305D101 prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Time:	**Depth:**	**Point:**	**Sample ID:** Ø1NE _ _ _ _ _ _ _ _ prime dup trip split ms/msd
Laboratory Tests: DRO RRO GRO BTEX VOC PAH PCB Pesticides TAL metals Pb Zn Cr TOC Geotech			

SOIL SAMPLING FIELD NOTE FORM

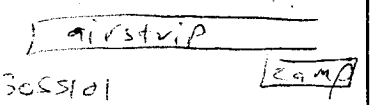
Project Number:	Sample Location:
1850574.260120	305101

Project: Northeast Cape 2001 Phase III RI

Site: 30- Background

Client: United States Army Engineer District – Alaska

MAP



FIELD INFORMATION

Date: 8-24-01 **Sampler(s):** O'Connell

Sampling Equipment: SS spoon

SAMPLE INFORMATION

Time: 1725 **Depth Interval:** 0"-6" ft **PID:** ppm

Sample ID: Ø1NE305101 (primary) duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Analyses: (DRO) (RRO) GRO BTEX VOC (PAH) PCB Pest. (TALmetal) Pb Zn Cr TOC Geotech

SOIL SAMPLING FIELD NOTE FORM

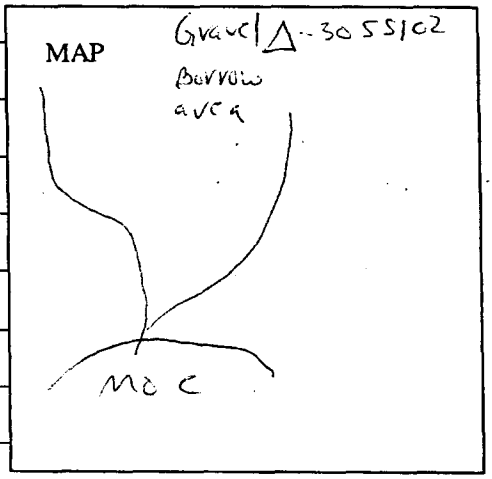
Project Number:	Sample Location:
1850574.260120	3055102

Project: Northeast Cape 2001 Phase III RI

Site: 30 Background

Client: United States Army Engineer District – Alaska

MAP



FIELD INFORMATION

Date: 8-24-01 **Sampler(s):** Doug Quist

Sampling Equipment: SS Spoon

SAMPLE INFORMATION

Time: 1020 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3055102 (primary) duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Analyses: (DRO) (RRO) GRO BTEX VOC (PAH) PCB Pest (TALmetal) Pb Zn Cr TOC Geotech

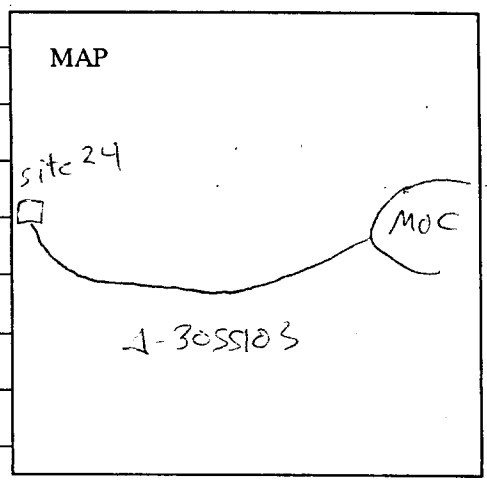
SOIL SAMPLING FIELD NOTE FORM	Project Number: 1850574.260120	Sample Location: 30SS103

Project: Northeast Cape 2001 Phase III RI

Site: 30 - Background

Client: United States Army Engineer District – Alaska

MAP



FIELD INFORMATION

Date: 8-24-01 **Sampler(s):** Doug Quist

Sampling Equipment: SS Spoon

SAMPLE INFORMATION

Time: 1000 **Depth Interval:** 0-6" ft **PID:** ppm

Sample ID: Ø1NE 3 0 S S 1 0 3 (primary) duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm

Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Analyses: (DRO) (RRO) GRO BTEX VOC (PAH) PCB Pest. (TALmetal) Pb Zn Cr TOC Geotech

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number:	Well ID:
1850574.260120	30WP101

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-25-01 | **Time:** 1600 | **Sampler(s):** OConnell

Well type: Monitoring Well (Well Point) Other:

Well condition: Good

Protective casing height (ft ags): NA	**Minimum purge volume calculation:**
PVC casing height (ft ags): NA	One well volume (gal) = $0.163A(B/2)^2 = C$
Well depth below top of PVC (ft): 3.10	Minimum purge volume = C x 3
Water level below top of PVC (ft): 1.28	**Calculation:** NA
Water column height (ft): 1.82 = A	
PVC casing ID (in): = B	
Purging Method/Equipment:	

Sheen: (none) slight moderate abundant

Odor: (none) slight moderate strong

Gallons	Time	Temperature °C	pH pH units	Conductivity umhos/cm	Comments
	1420	3.5	6.7	85	

Time: 1600 **Sample ID:** Ø1NE 30WP101 (primary) dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time:					
Time:					
Time:					

Laboratory Tests: (DRO) (RRO) (GRO) BTEX Alkalinity (Sulfate) Methane/Ethane/Ethene

(PAH, VOCs, Metals)

GROUNDWATER SAMPLING FIELD NOTE FORM

Project Number:	Well ID:
1850574.260120	WP 30-2

Project: NEC 2001 Phase III RI | **Client:** USAED

Date: 8-28-01 | **Time:** 0930 | **Sampler(s):** Bill OConnell

Well type: Monitoring Well Well Point (Other: Pit 24" BGS)

Well condition:

Protective casing height (ft ags):	**Minimum purge volume calculation:**
PVC casing height (ft ags):	One well volume (gal) = $0.163A(B/2)^2 = C$
Well depth below top of PVC (ft):	Minimum purge volume = C x 3
Water level below top of PVC (ft):	**Calculation:**
Water column height (ft): = A	
PVC casing ID (in): = B	
Purging Method/Equipment: Disposable Dipper	

Sheen: (none) slight moderate abundant

Odor: (none) slight moderate strong

Gallons	Time	Temperature °C	pH pH units	Conductivity umhos/cm	Comments

Time: 0930 **Sample ID:** Ø1NE 30WP102 (primary) dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Time: **Sample ID:** Ø1NE _____ primary dup triplicate ms/msd

Field Tests:	Turbidity NTU	Nitrate mg/L	Ferrous Iron mg/L	ORP mV	Dissolved Oxygen mg/L
Time:					
Time:					
Time:					

Laboratory Tests: (DRO) (RRO) (GRO) (BTEX) (Alkalinity) (Sulfate) (Methane/Ethane/Ethene) (PAH, VOCs)

SOIL SAMPLING FIELD NOTE FORM	Project Number: 1850574.260120	Sample Location: Site 31

Project: Northeast Cape 2001 Phase III RI

Site: 31 - WACS

Client: United States Army Engineer District – Alaska

MAP

FIELD INFORMATION

Date: 8-23-01 **Sampler(s):** Doug Quist

Sampling Equipment: SS Spoon

SAMPLE INFORMATION

Time: 1900 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 1 5 5 1 0 1 (primary) duplicate triplicate (ms/msd)

Time: 1905 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 1 5 5 1 0 2 (primary) duplicate triplicate ms/msd

Time: 1915 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 1 5 5 2 0 3 primary (duplicate) triplicate ms/msd

Time: 1920 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 1 5 5 1 0 3 (primary) duplicate triplicate ms/msd

Time: 1925 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 1 5 5 1 0 4 (primary) duplicate triplicate ms/msd

Time: 1500 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 1 5 5 1 0 5 (primary) duplicate triplicate ms/msd

Time: 1503 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 1 5 5 2 0 5 primary (duplicate) triplicate ms/msd

Time: 1505 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 1 5 5 1 0 6 primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE _____ primary duplicate triplicate ms/msd

Analyses: (DRO) (RRO) GRO BTEX VOC PAH (PCB) (Pest.) TALmetal Pb Zn Cr TOC Geotech

SOIL SAMPLING FIELD NOTE FORM	Project Number: 1850574.260120	Sample Location: Site 31

Project: Northeast Cape 2001 Phase III RI

Site: 31 - WACS

Client: United States Army Engineer District – Alaska

MAP

FIELD INFORMATION

Date: 8-23-01 **Sampler(s):** Doug Quist

Sampling Equipment: SS Spoon

SAMPLE INFORMATION

Time: 1510 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 1 S S 1 0 7 (primary) duplicate triplicate ms/msd

Time: 1515 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 1 S S 1 0 8 (primary) duplicate triplicate ms/msd

Time: 1520 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 1 S S 1 0 9 (primary) duplicate triplicate ms/msd

Time: 1525 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 1 S S 1 1 0 (primary) duplicate triplicate ms/msd

Time: 1530 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 1 S S 1 1 1 (primary) duplicate triplicate ms/msd

Time: 1535 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 1 S S 1 1 2 (primary) duplicate triplicate ms/msd

Time: 1540 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 1 S S 1 1 3 (primary) duplicate triplicate ms/msd

Time: 1545 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 1 S S 1 1 4 (primary) duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE _____ primary duplicate triplicate ms/msd

Analyses: (DRO) (RRO) GRO BTEX VOC PAH PCB Pest. TALmetal Pb Zn Cr TOC Geotech

SOIL SAMPLING FIELD NOTE FORM	Project Number: 1850574.260120	Sample Location: Site 31

Project: Northeast Cape 2001 Phase III RI

Site: 31-WACS

Client: United States Army Engineer District – Alaska

MAP

FIELD INFORMATION

Date: 8-23-01 **Sampler(s):** Doug Quist

Sampling Equipment: SS Spoon

SAMPLE INFORMATION

Time: 1550	**Depth Interval:** 0-6"					ft	**PID:**	ppm
Sample ID: Ø1NE 31551 15	(primary)	duplicate	triplicate	ms/msd				
Time: 1555	**Depth Interval:** 0-6"					ft	**PID:**	ppm
Sample ID: Ø1NE 31551 16	(primary)	duplicate	triplicate	ms/msd				
Time: 1600	**Depth Interval:** 0-6"					ft	**PID:**	ppm
Sample ID: Ø1NE 31551 17	(primary)	duplicate	triplicate	ms/msd				
Time: 1605	**Depth Interval:** 0-6"					ft	**PID:**	ppm
Sample ID: Ø1NE 31551 18	(primary)	duplicate	triplicate	ms/msd				
Time: 1610	**Depth Interval:** 0-6"					ft	**PID:**	ppm
Sample ID: Ø1NE 31551 19	(primary)	duplicate	triplicate	ms/msd				
Time: 1615	**Depth Interval:** 0-6"					ft	**PID:**	ppm
Sample ID: Ø1NE 31551 26	(primary)	duplicate	triplicate	ms/msd				
Time: 1620	**Depth Interval:** 0-6"					ft	**PID:**	ppm
Sample ID: Ø1NE 31552 26	primary	(duplicate)	triplicate	ms/msd				
Time:	**Depth Interval:**					ft	**PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd				
Time:	**Depth Interval:**					ft	**PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd				

Analyses: DRO RRO GRO BTEX VOC PAH PCB Pest. TALmetal Pb Zn Cr TOC Geotech

SOIL SAMPLING FIELD NOTE FORM	Project Number: 1850574.260120	Sample Location: Sit 31

Project: Northeast Cape 2001 Phase III RI

Site: 31-WACS

Client: United States Army Engineer District – Alaska

MAP

FIELD INFORMATION

Date: 8-24-01 **Sampler(s):** Quist

Sampling Equipment:

SAMPLE INFORMATION

Time: 2025 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 31 55 1 21 (primary) duplicate triplicate ms/msd

Time: 2030 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 31 55 22 1 primary (duplicate) triplicate ms/msd

Time: 2100 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 31 55 1 22 (primary) duplicate triplicate ms/msd

Time: 2230 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 31 55 1 23 (primary) duplicate triplicate ms/msd

Time: 2240 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 31 55 1 24 (primary) duplicate triplicate ms/msd

Time: 2245 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 31 55 1 25 (primary) duplicate triplicate ms/msd

Time: 2035 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 31 55321 primary duplicate (triplicate) ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Analyses: DRO RRO GRO BTEX VOC PAH PCB Pest. TALmetal Pb Zn Cr TOC Geotech

SOIL SAMPLING FIELD NOTE FORM	Project Number: 1850574.260120	Sample Location: Site 32

Project: Northeast Cape 2001 Phase III RI

Site: 32 - Lower Tram Terminal

Client: United States Army Engineer District – Alaska

MAP

FIELD INFORMATION

Date: 8-29-01 **Sampler(s):** Quist

Sampling Equipment: SS Spoon

SAMPLE INFORMATION

Time: 2000 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 2 5 5 1 0 1 (primary) duplicate triplicate ms/msd

Time: 2005 **Depth Interval:** 18-24" ft **PID:** ppm
Sample ID: Ø1NE 3 2 5 5 1 0 2 (primary) duplicate triplicate ms/msd

Time: 2010 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 2 5 5 1 0 3 (primary) duplicate triplicate ms/msd

Time: 2015 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 2 5 5 1 0 4 (primary) duplicate triplicate ms/msd

Time: 2020 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 3 2 5 5 1 0 5 (primary) duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE _____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE _____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE _____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE _____ primary duplicate triplicate ms/msd

Analyses: (DRO) (RRO) GRO BTEX VOC PAH (PCB) (Pest.) TALmetal Pb Zn Cr TOC Geotech

SOIL SAMPLING FIELD NOTE FORM

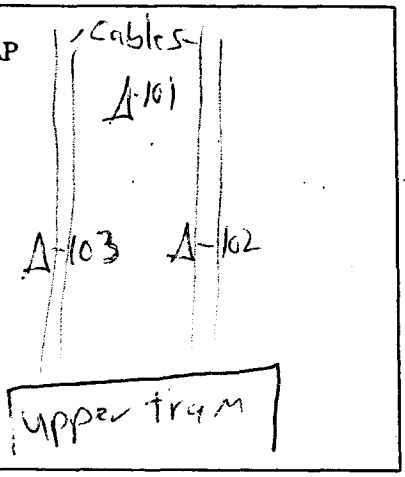
Project Number:	Sample Location:
1850574.260120	Site 33

Project: Northeast Cape 2001 Phase III RI

Site: 33 upper tram terminal

Client: United States Army Engineer District – Alaska

MAP



FIELD INFORMATION

Date: 8-23-01 **Sampler(s):** Doug Quist

Sampling Equipment: SS spoon

SAMPLE INFORMATION

Time: 0830	**Depth Interval:** 0-6"				**PID:**	ppm
Sample ID: Ø1NE 3 3 S S 1 0 1	(primary)	duplicate	triplicate	ms/msd		
Time: 0835	**Depth Interval:** 0-6"				**PID:**	ppm
Sample ID: Ø1NE 3 3 S S 1 0 2	(primary)	duplicate	triplicate	ms/msd		
Time: 0840	**Depth Interval:** 0-6"				**PID:**	ppm
Sample ID: Ø1NE 3 3 S S 1 0 3	(primary)	duplicate	triplicate	ms/msd		
Time:	**Depth Interval:**			ft	**PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd		
Time:	**Depth Interval:**			ft	**PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd		
Time:	**Depth Interval:**			ft	**PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd		
Time:	**Depth Interval:**			ft	**PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd		
Time:	**Depth Interval:**			ft	**PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd		
Time:	**Depth Interval:**			ft	**PID:**	ppm
Sample ID: Ø1NE_____	primary	duplicate	triplicate	ms/msd		

Analyses: (DRO) RRO GRO BTEX VOC PAH (PCB) Pest. TALmetal Pb Zn Cr TOC Geotech

SOIL SAMPLING FIELD NOTE FORM	Project Number: 1850574.260120	Sample Location: Site 34

Project: Northeast Cape 2001 Phase III RI

Site: 34 - upper Camp

Client: United States Army Engineer District – Alaska

MAP

FIELD INFORMATION

Date: 8-23-01 **Sampler(s):** Quist/OConnell

Sampling Equipment: SS spoon

SAMPLE INFORMATION

Time: 1030 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 34 SS 101 (primary) duplicate triplicate ms/msd

Time: 1035 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 34 SS 102 (primary) duplicate triplicate ms/msd

Time: 1040 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 34 SS 103 (primary) duplicate triplicate ms/msd

Time: 1043 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 34 SS 104 (primary) duplicate triplicate ms/msd

Time: 1045 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 34 SS 105 (primary) duplicate triplicate ms/msd

Time: 1050 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 34 SS 106 (primary) duplicate triplicate ms/msd

Time: 1100 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 34 SS 107 (primary) duplicate triplicate ms/msd

Time: 1105 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 34 SS 108 (primary) duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE _____ primary duplicate triplicate ms/msd

Analyses: (DRO) RRO GRO BTEX VOC PAH PCB Pest. TALmetal Pb Zn Cr TOC Geotech

SOIL SAMPLING FIELD NOTE FORM	Project Number: 1850574.260120	Sample Location: Site 34

Project: Northeast Cape 2001 Phase III RI

Site: 34 - Upper Camp

Client: United States Army Engineer District – Alaska

MAP

FIELD INFORMATION

Date: 8-23-01 **Sampler(s):** Quist/OConnell

Sampling Equipment: SS Spoon

SAMPLE INFORMATION

Time: 1110 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 34 55 109 (primary) duplicate triplicate ms/msd

Time: 1115 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 34 55 110 (primary) duplicate triplicate ms/msd

Time: 1130 **Depth Interval:** 0-6" ft **PID:** ppm
Sample ID: Ø1NE 34 55 111 (primary) duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Time: **Depth Interval:** ft **PID:** ppm
Sample ID: Ø1NE_____ primary duplicate triplicate ms/msd

Analyses: (DRO) (RRO) GRO BTEX VOC PAH PCB Pest. TALmetal Pb Zn Cr TOC Geotech

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

HORIZONTAL LINE

All-Weather Notebook
No. 391

NEC 2002 Fieldwork
1850574.260120

8-12-2002 → 8-19-02

4 5/8" x 7" - 48 Numbered Pages

Bonnie McLean

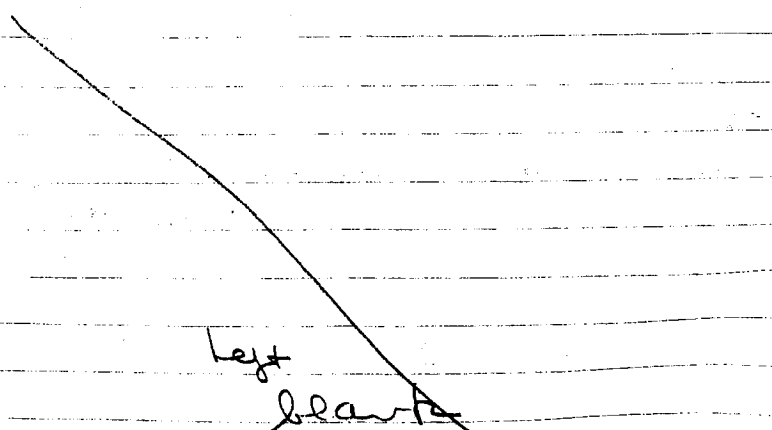
NEC 2002 Fieldwork
1850574.260120

Bgm Day 1

8-12-02

1900 At AIA
1720 leave ANC - late
2030 Arrive NOM
2130 P/U vehicles
2145 Ck in at apt

Bmg.



NEC 2002 Fieldwork
1850574.260120

Bgm 8-13-02
Day 2

0730 At Bering to P/u cargo
go to Ak Cargo take to Bering

0900 leave NOM for NEC
1005 Arrive NEC & Bering on Stand
Call Lyndon - provide weather, by
- Clear, sunny for NMD -
Eugene brings ATV & trlr & FTV
- Lyndon will not leave until
- 1 pm.
- Sort equipment left in tool mob.
- Call Lyndon @ 1330 -
Plane not yet return from Am
trip will leave @ 1500
- Clean out debri in
Terminal Bldg
Tailgate Safety mtg completed
- go to main site to
mark MW locations of MW & SB's
Bld 109 & 108 filled with
debris Was going to use
these as mob areas
Not use above

Bgm

NEC 2002 Fieldwork 8-13-02
1850574.260120 Bgm (cont.)

Sate 22 - Nugget has left large debris piles East former water tank Bldg & gym
Access limited for drilling the two SB - North of water tank Bldg.
Very Very Dry; Low flow @ stream at Site

S. of Gen Bldg - former vat location - Cut surface & debris restricts access; must move to W. side of covered roadway for MW location.

MW 19-1 ▽ 19.2 bgs
MW 19-2 Dry @ 19.5 bgs

1600 Call Lyndon - still loading will leave at 1630 from ANC plan on ARRIVAL NEC @ 1930

NEC 2002 Fieldwork 8-13-02
1850574.260120 Bgm

Prepare dinner - limited to cold canned soup

1720 Lyndon arrives NEC
Boring leaves
Lenload Here

- 1830 Here leaves NEC
- Sort equipment; put up tent in garage
line walls in trimmed
Clean out debris
End 2300.
Ponds dry at Site 7, 6 & 3
Stay at Eugene cabin,
NO rain areas dry around camp

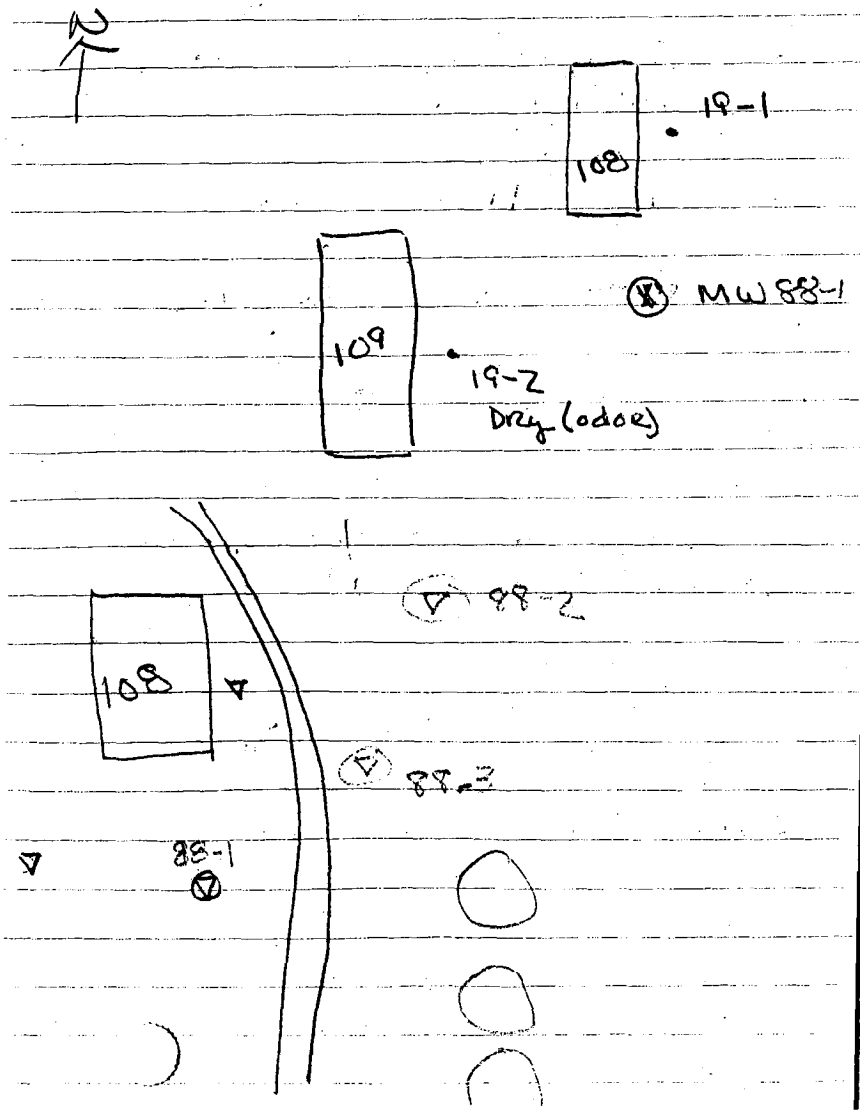
Bgm

NEC 2002 Fieldwork
1850574.260120 8-14-02

0800 Discovery doesn't have drill bit should arrive on AK Am flight
Boring to drive out.
Prepare to sample
Cldy. - WINDY
1130 - Floyd arrives, has water for Doug to complete flow measurements - Safety Mtg. Complete
1135 Boring air arrives with drill bits will stand by until 1900 to take us back to Nome this pm
STAND by should be Discovery

Move to Alk 88-1 S. of Bldg. 108
Down gradient Bldg 109
Mw 19-2 had PSH odors on mud from water level meter.
No water/product plane indicated. BO

NEC 2002 Fieldwork
1850574.260120 8-14-02



NEC 2002 Fieldwork BJM
1850574.260120 8-14-02

Site 11 – Fuel Tank

Water Level measurements

MW 11-3 11.2 bgs

Now Former

MW 11-2 – Has been distroyed; steel casing bent; PVC broken and on ground

Very low flow/shallow water.

Doug sighted an identifiable (sampling?) device in drainage basin near bridge. Called has left message concerning sampler.

Eugene by – asked if we knew Nugget is going to remove bridge when they leave for the last time. Then put in poles to support it and will remove then when done.

This could be an issue for moving drill rig back to [illegible]

NEC 2002 Fieldwork BJM
1850574.260120 8-14-02

RW88-1

1430 (0-2.5') dry Fill Material, Crushed rock w/ Sand, Brown, No odor

PID = 1.0

1445 (2.5-5.0) dry, No chg, no odor, no staining

PID = 1.0

1450 (5-7.0') sand w/ pebbles, no stain, no odor, no staining

PID = 1.2

1500 (7.5-10.0) No retrieval, Gravel rock in sampler, no stain, no odor

1502 (10-12.5) No retrieval, No odor, PID N/A

1515 (12.5-15.0) No retrieval PID N/A

1530 (15-17.5) grey brown sand w/ crushed rock, moist PID = 264

PSH odor, No staining, moist

LAB ID 02 NE 88 SB 001

1600 (18-20) No change PID 98.7

Petroleum odor, staining

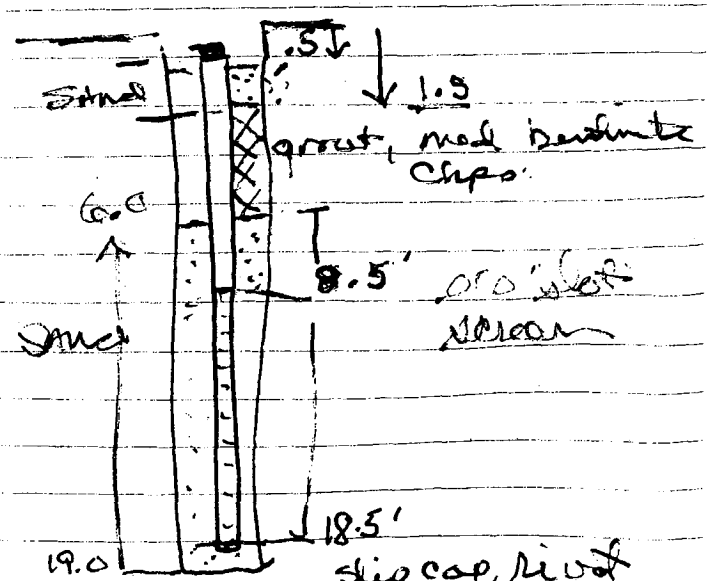
LAB 02 NE 88 SB 002

Dk. Brown-grey P.H., moist

SATURATED

NEC 2002 Fieldwork
1850574.260120 8-14-02
BgM

MW 88-1 (cont.)
Drill total 20.5'
2" PVC 10' screen 10.5 - 20.0
Completed 2" PVC, flush mount; sand heave bottom @ 18.5'
10' screen .010 slot, sch 40
10' Sch. 40 blank.



BgM

NEC 2002 Fieldwork
1850574.260120 8-14-02
BgM

Move & setup on MW 88-2
E of road @ Bldg. 108.

1620 — 2. — Fill, brown, lots of sand, PID = 0 (0-2), no odor
1630 ① (2-4.5) dark brown broken angular rock with sand, no odor, PID = 19.0
5.0
5.5
1646 ② (5-7.5) No change, PID = 29.8
8
1645 ③ 10. (7.5-10.) No odor, PID = 30.8
LAB 02 NE 88 SB03
1700 PID = 13.8
(10-12.5) little recovery, broken rock
LAB 02 NE 88 SB04
(12.5-14.5) No recovery, orange
1712 ▽ saturated 14.5' broken rock of sand
PID = N/A

Complete MW 88-2 @ 18.00'
BgM

BgM

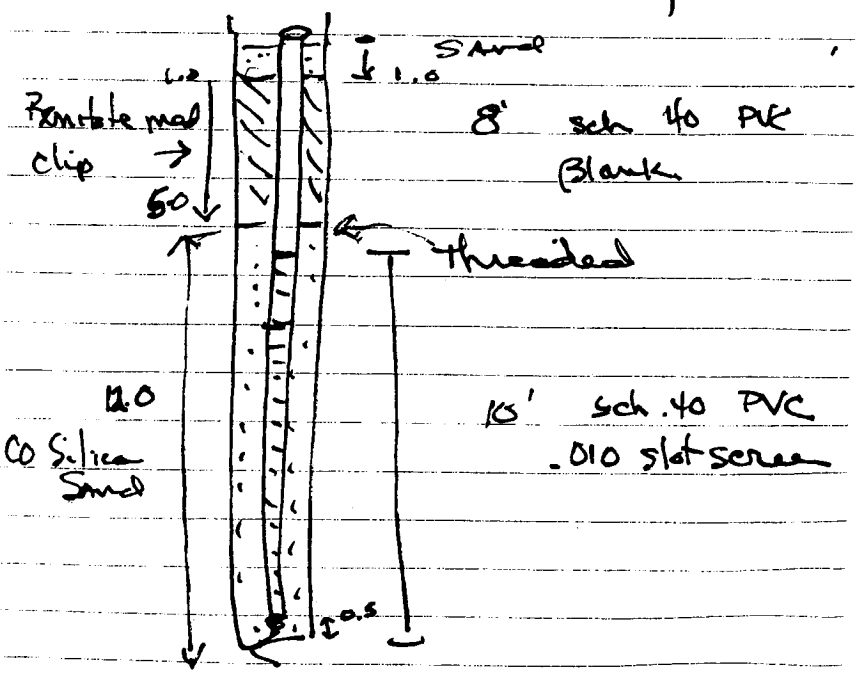
NEC 2002 Fieldwork
1850574.260120

8-14-02

MW 88-2

Hard to auger/CT rock;

D_T 18.0



Bill & I complete MW88-2.

Leave for NEC Boring ops. @ 1930. w/ NAJ.

Doug prepares soil samples

8-15-02

0800 at Boring ops (Bill, Johanna, Doug)

0810 leave NEC (NAJ)

0930 arrive NEC

Prepare for MW 88-3

Doug to develop MW88-1 & 88-2

1100 Complete Safety Meeting

Move to MW 88-3

Set up

Bill to complete SB log.

Very hard drill in broken rock/fill.

Many samples with no recover (rocks in front) push forward.

1230 Rig drill rod breaks

NO injuries

Call Discovery to ship

Doug trying to develop MW 88-1 & 2. No recharge

Complete PID on samples from MW 88-3.

Bill Boring to send plans

NEC 2002 Fieldwork
1850574.260120

8-15-02
Calibrated

MW 88-3 PID (ppm) #1
① 4-6' 67.7 (LAB)
② 8-10' 42.4 (6-8' No recovery)
10-12 No recovery
12-14 44.8 Little recovery

Rig Down.
8-16-02 New Part documented
8-17-02
④ 12-14', ④ 79.8 LAB
⑤ 14-16' ⑤ 185

Calibrated PID miniRae 2000 - #1 Dt 20

LAB ID NO. MW88-3
① (4-6') RRs, DRs, Gros, Beta, PAH, Tox metals.
02 NE 88 SB 005
@ 1155 on 8-15-02 ①
② Comb. 12-16' (#5⑥)
02 NE 88 SB 006
1110 on 8-17-02

GA QC

NEC 2002 Fieldwork
1850574.260120

8-15-02
1500 B ... Jec
1630 arrive Nome.

Decide to send Johanna back to ANC.
To return Sunday AM

Will await parts to arrive.

3-16-02
0800 at Bering waiting for Gold Streak
0930 NOT on AM flight
1230 Back Bering
1330 Bill & I go get parts.
Ralph not actively seeking parts.
1400 on taxi w/ Bering NAT
1430 still on taxi waiting
1540 arrive NEC
Complete Tailgate Safety Mtg
1600 Ralph back, new rod too short.
Call Kyle – wants to try using duct tape fill joint gap.
I decide this is not safe - compression & wear unknown
Call Bering airbeat ... Ralph left broken rod ... Nome to fix (weld.) - Ron

NEC 2002 Fieldwork
1850574.260120

8-16-02
Call Bering ask them to contact Nome Machine Shop to leave Rod outside door of shop.
Bering Friday afternoon. Call Kyle to follow up on same.

1800 arrive back Nom
1920 Ralph calls - weld shop closed - No Rod left

2030 Ralph calls tracked down welder - got rod.
Called Kyle - left message to call me

Bgm

8-17-02 Nec
0800 at Bering air
leave Nome 905 (NAJ)
arrive Nec 1000
1100 Tailgate Safety Mtg.
at MW 88-3 complete sampling

Sample 14'-16'
see Pg. 14 for PID
Readings

1230 Nugget arrives
Prepared Samples
for LAB (DRO/RRO, GRO, Bets, PAH
Metals) ID NO.
(1) 4-6' 02 NE 88 SB 005
8-15 @ 1155
(4) (5) composite for VOC.
primary 02 NE 88 SB 006
on 8-17 @ 1110
QA 02 NE 88 SB 306
on 8-17 @ 1110
QC 02 NE 88 SB 206
8-17 @ 1200

All Nec waters ... Rain

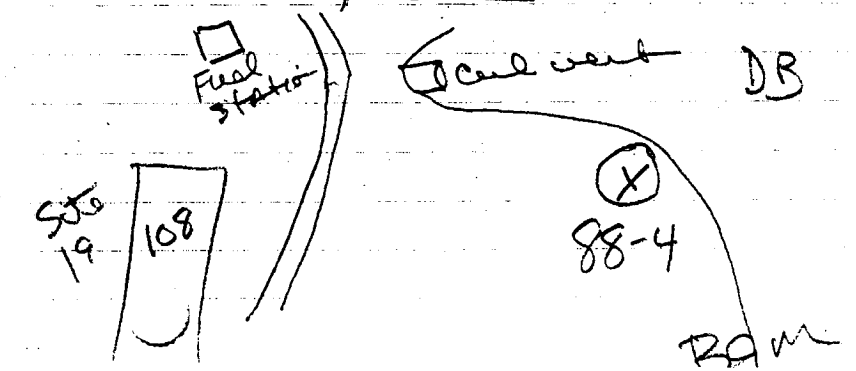
NEC 2002 Fieldwork
1850574.260120

Bgm 8-17-02

Calibrated Muni Rae No. 1 = 100 ppm
MW 88-4 PID Reading PPM

1300	(1)		236	
1315	(2)		248	
1320	(3)	*	284	
1330	(4)	*	440	⚡ 13'
1340	(5)		424	SAT

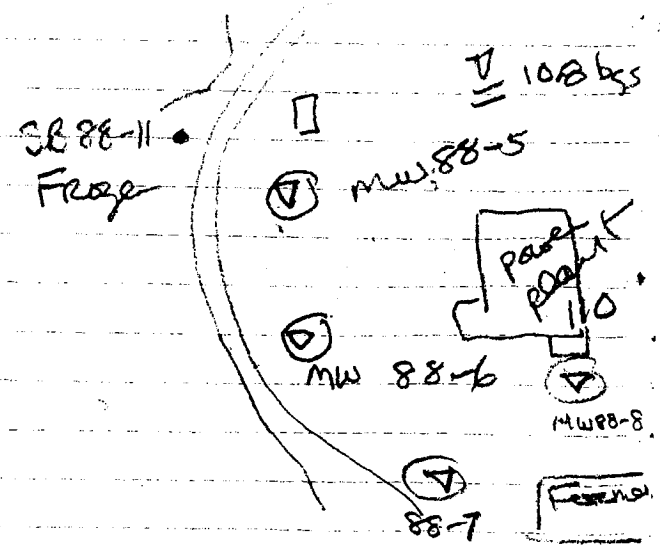
* LAB ID
@ 1320 02 NE 88 SB 007
on 8-17-02
@ 1330 02 NE 88 SB 008
sent for: DRO/RRO, GRO, Bets, PAH
Metals, TOC



NEC 2002 Fieldwork BGN
1850574.260120 8-17-02

SB. 88-11

This loc was to be a MW
it was frozen continuously
from ± 3 bgs to 15'.
See Bills log
Extreme rain & wind
Fcg on ground



NEC 2002 Fieldwork
1850574.260120 8-17-02

Move to MW 88-5
See Bills log

Completed as 15' Dt MW
10' screen.

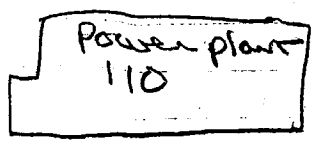
Completed Remarks on
split spoon after sand
sampling complete

stayed @ cabin
weather awful.

NEC 2002 Fieldwork
1850574.260120 8-18-02

0800 Prepare for MW 88-6 Sampling
Tail gate safety mtg complete
Bubbles to leach auger.
Wind from N.
N'caget waiting barge.
Cold windy, chilly —
move to MW 88-6
See Bills loop:
Sampling complete

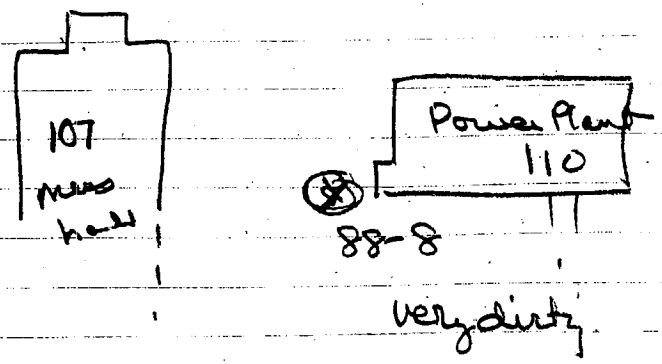
Had to restart bor 3-times because of debris & rocks.
▽ = 11.00 completed to D_T 15'.
Sampling complete



NEC 2002 Fieldwork
1850574.260120 8-18-02

water levels ▽ 695
MW 16-1 13.7'
MW 88-5 10.8'

Moved to MW 88-7
N. of former mess hall
Bldg. 107 - loading dock
▽ 10.2' ⊗ 88-7 D_T 15'

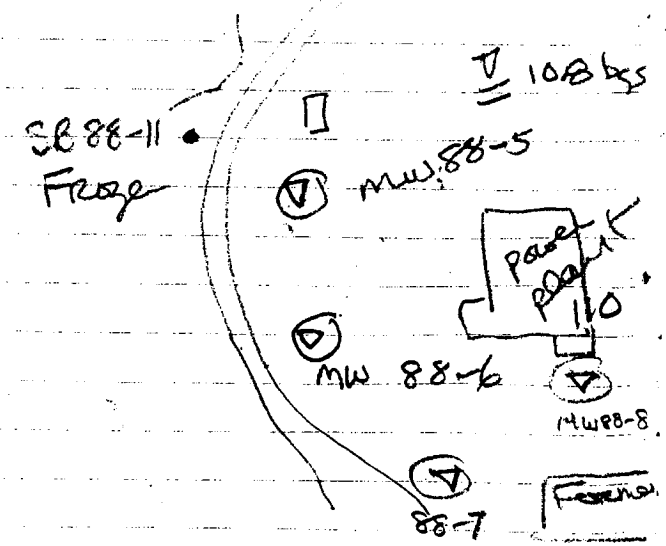


Boring in 1830 (NAS)
Arrive Home 1930
Prepared Samples for labs
Shipped End 2300

NEC 2002 Fieldwork BJN
1850574.260120 8-17-02

SB-88-11

This loc was to be a MW
it was frozen continuous
from ± 3 bgs to 15'.
See Bills log
Extra sample ground
Frozen on ground



NEC 2002 Fieldwork
1850574.260120 8-17-02

Move to MW 88-5
See Bills log

Completed as 15' DT MW
10' screen

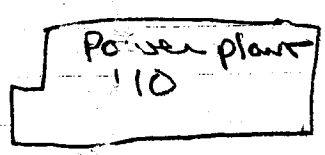
Compiled Remarks on
split spoon after soil
sampling complete

stayed @ cabin
weather awful.

NEC 2002 Fieldwork
1850574.260120 8-18-02

0800 Prepare for MW 88-6
Sampling
Tailgate safety mtg Complete
Drillers to check auger
Wind from N.
Moved waiting barge.
Cold work, clear —
move to MW 88-6
See Bill's logs
Sampling Complete

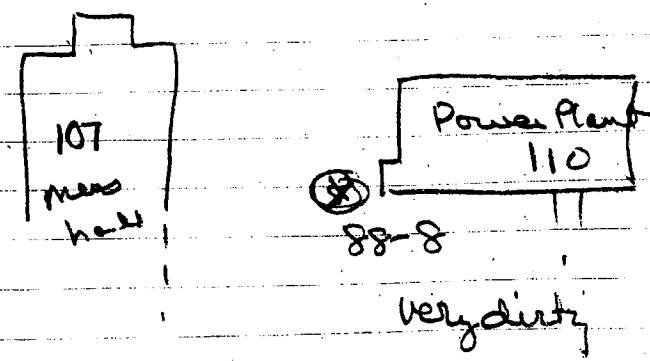
Had to restart bor 3-
times because of debris in
rocks.
▽ = 11.00 completed to
D_T 15'.
Sampling complete



NEC 2002 Fieldwork
1850574.260120 8-18-02

water levels	▽ bgs
MW 16-K	13.7'
MW 88-5	10.8'

Moved to MW 88-7
N. of former manhole
Bldg. 107 - loading dock
▽ = 10.21 ⊗ 88-7 D_T 15'



Boring in 1830 (NAJ)
Arrive home 1930
Prepared samples for lab
5' spoon End 2300 Bgs

NEC 2002 Fieldwork
1850574.260120 8-19-02

0730 Repack coolers (3) with ice
0810 P/u Johanna & Don Mallard
0900 at Baring air
leave for NEC - Doug, Bill Johanna, Don, Robert & Greg

0920 drop coolers at Gold Streak
0940 called CAS left message 3 coolers on flight 100 into Portland Tues 6AM

1100 ck in ak
1245 leave nom
1400 arrive ANC
call to meet
FAX cooler air bill to CAS
at AK. Gold Streak
Dominos to Doug.

BJM

NEC 2002 Fieldwork
1850574.260120 8-19-02

2030 Doug called, got ord. mw88-9 & 10 asked start drilling until 1330.
Broken ring post will have to have welded
Tot. Com. to see Sandi Johanna have for welding tbd.

Johanna to come home Thurs.

Nikki called Discovery about Herc & Dominos

BJM

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All-Weather Notebook
No. 391

Northeast Cape, St. Lawrence Island
Montgomery Watson-Harza
Douglas Quist
8-12-02

4 5/8" x 7" - 48 Numbered Pages

8-12-02

1430 - Depart AIA
1700 - Enroute.

1930 Arrive NOM
Mobilize Gear.

2200 - End

8-12-02

8-13-02 Northeast Cape

0715 - Mob for Day - retrive Cargo from ARC AIR - for Nome Materials.

0830 - Depart for NEC w/ Bering Air, Larry Pilot.

1015 - Cleared Site 2 Air terminal for staging. Here to arrive approx 1:00

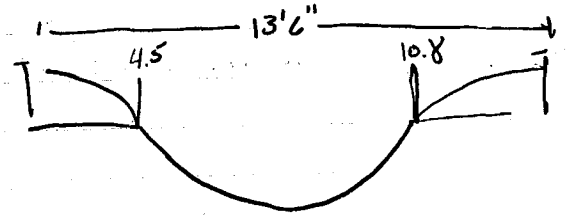
Mark locations for Monitoring Wells and Soil Borings.

8-13-02

8-14-02 Northeast Cape.

Stream Flow Measurements.

Stream Flow Location 2 from 2001
West of Drainage Basin



4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0
0.4	0.85	1.0	1.25	1.15	1.2	1.2	1.2	1.3	1.35

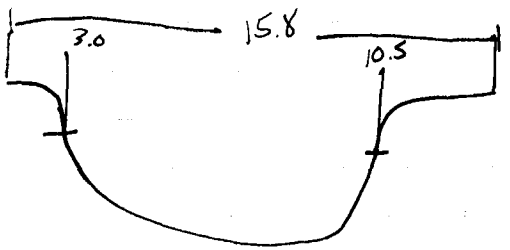
9.5	10.0	10.8
1.35	1.35	1.15

7.5' = Centerline
0.2 = 0.07 m/s
0.4 = 0.07 m/s
0.8 = 0.13 m/s

8-14-02

Northeast Cape

Stream Flow Measurement
Stream Flow Location 1 from 2001
East of Drainage Basin



3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0
0	2	0.4	1.2	1.4	1.5	1.55	1.5	1.4	1.6	1.65	1.75	1.80

9.5	10.0	10.5
[illegible]	0.7	0.2

[illegible]5' = Centerline

[illegible].2	0.02
[illegible].4	0.05
[illegible].8	0.11

8-14-02

8-14-02 Northeast Cape

STREAM FLOW Measurement
SC-3 from 9001 - location



1.5'	2.0'	3.0'	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0
1.0	1.0	.8	.7	.6	.5	.4	.5	.5	.45	.35

12.0	13.0	14.0	15.0
.25	.2	.1	0

7.5 ± Centerline 0.5'

0.2 0.09
0.4 0.10
0.8 0.18 · Possibly skewed by Surface Wind & Proximity of Sensor to Surface

8/14/02

Northeast Cape

02NE88SB001 MW-1

2.5-5.0 = 1	1.0	1455	
5-7.5 = 2	1.2	1450	
7.5-12.5 = 3	180	1500	
12.5-17.5 = 4	204	1530 -	X
17.5-20' = 5	98.7	1600 -	X

2.5-5.0 = 1	19.0	1630	
5-7.5 = 2	29.8	1640	
7.5-12.5 = 3	30.9	1715	X
= 4	13.8	1700	X

8/14/02

8-15-02 Northeast Cape

0715 Depart for Airport
0850 - Depart for NEC

Prepare for Development of MW-1, MW-2

MW-1-

Total Depth - 25.90 Flow to Casing Cut
Depth to GW - 21.78 Flow to Casing Cut
Water Column - 4.12
3 x 1 purge volume = 2 gallons.

		T	EC	pH	
1030	0 -	7.9	283.1	7.98	Very slow to Recharge
1032	1	4.8	231.1	6.52	Dry
1040	2	4.7	228.6	6.89	Dry very slow

Douglas [signature] 8/15/02

Northeast Cape

Development of Monitoring Well 8-15-02

Total Depth 18.06 - Muddy Bottom
Depth to GW 9.71
Water Column 8.35
purge volume 3 L

	T	EC	pH
	5.7	238.2	6.30
dry	4.6	[illegible]	6.06
dry	4.8	233.2	6.10

Very Slow to Recharge

[signature] 8/15/02

10

8-16-02

Northeast Cape

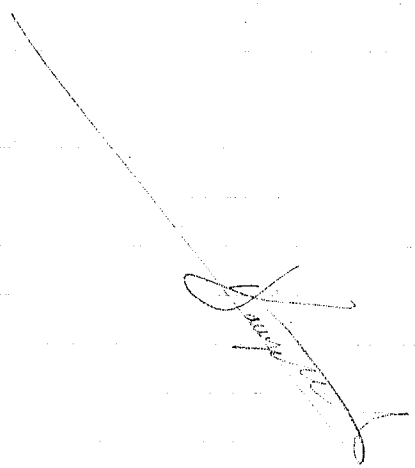
Depart Nome for NEC

Arrive NEC

Return to Nome but stop to shoot

Coastal Survey to take bathy plots

Team back to collect us.



8/16/02

11

Northeast Cape

Depart for Airport

Arrive Cargo @ NEC to Survey

Starting MW 58.1

Depth*	26.48
Depth to GW	21.94
Water Column	4.54

Purge Volume = 3 x 2.25 gallons

T °C	EC µS	pH
6.2	386.8	6.07
6.0	387.5	6.03
6.0	201.4	6.89

DO 8.4 mg/L

>1000 NTU TURB

Odor present but less noticeable than background. No visible sheen noted in Purge Bucket

MW-1

8-17-02

8-17-02 Northeast Cape

Sampling SK

Total Depth 20.06
Depth to Bot 15.10
Dia Column 2.36
Purge Volume 4 gal

	Temp C	EC µs	pH	DO
1445 0	6.0	335.1	7.09	\
1600 1	5.9	334.1	7.11	\
1715 2 day	5.3	230.4	6.79	\
(900) 21	5.0	228.7	6.80	8.2 mg/L

TURBIDITY 288 NTU SO_2 N

Well has an odor to it.
Well appears to be a large [illegible]
Rowans, was purged dry after bailed
Well is extremely slow to recover. Appears
to contain very fine sands. But little to no
apparent grain afterward. Indicative of
packed Dates.

Kenneth A 8-17-02

Northeast Cape

Dry wells [illegible]
MW88-3

Depth 20.10
[illegible] 15.12
[illegible] 4 gal
[illegible]

[illegible]	4376	[illegible]	[illegible]
3.2	244.2	7.11	
[illegible]	[illegible]	[illegible]	
3.6	[illegible]	7.40	
3.46	231.4	7.38	
3.0	229.9	[illegible]	

SK-4

Depth 17.2 (Prior to Pre gal)
[illegible] 11.20
[illegible] 4.0
[illegible] 3.10 gallons

4.4	602	9.35	
3.9	[illegible]	7.21	
[illegible]	649	6.79	
[illegible]	626	6.81	less muddy
[illegible]	621	6.78	Clearing

8-18-02 Northeast Cape

Development of MW 88-5

Total Depth* 17.45
Depth to GW 12.32
GW Column 5.13
3 x 1 Purge Volume ≈ 25 gallons

	T°C	EC µS	pH	
1400 0	4.4	239.9	7.34	Very Dark / Petrol Odour
1410 1	3.9	237.2	7.22	Dry
1430 7	4.2	242.3	6.53	Very Slow to Recharge
1450 27	4.2	244.5	6.52	Cloudy
1530 27	4.2	242.0	6.58	Very Clear

Douglas 8-18-02

Northeast Cape

Sampling of MW 88-5

Depth 19.45
to GW 14.96
4.85

Temp°C | EC | pH | DO | Turb | Odour
3.6 | 129.4 | 6.5
4 | 136.0 | 6.9
3.5 | 141.6 | 7.6
3.5 | 152.3 | 7.32 | 8.2 | >1,000 | NA

After Cat (Cloudy Smoke)

Douglas 8-19-02

8-19-02 Northeast Cape

1245 S

Sampling MW 8S-4

Total depth 16.14 Water out (Visual contact)

Depth to Prod 11.41

Water Column 4.73

2x1 purge 3 5.00 gal

	Time	Temp °C	EC µS	pH	Eh	DO	CO_2
0	1245	3.2	640	6.95			
1	1247	2.1	630	6.87			
2	1250	2.1	628	6.86			
3	1255	2.1	Clear	6.80			
4	1310 DRY	2.1	Clear	6.84			
5	1330 DRY	2.1	Clear	6.81	NA	>1000 NTU	NA

1330 - removed pump from well

1345 - Done

1345 - Left

Do & Co2 Not available due to high turbidity - Purge water had moments of clarity towards the beginning of purge indicative of settling and

Northeast Cape

Total depth = 11.92 Water out (Visual contact)

Water = 7.8

Water Column = 4.12

2x1 = 2.5 gal

Time	Temp °C	EC µS	pH	Eh	DO	CO_2
1245	3.2	640	6.95			
1247	2.1	630	6.87			
1250	2.1	628	6.86			
1255	2.1	Clear	6.80			
1310 DRY	2.1	Clear	6.84			
1330 DRY	2.1	Clear	6.81	NA	>1000 NTU	NA

1345 Stop discharge. Indication of perched water.

Very Turbid, Petrol Odor and sheen.

8-19-02

8-19-02

Northeast Cape

Deployment #8886

Total Depth = 15.2
Depth to Gas = 10.4
Water Column = 4.8
Sx 1 purge vol = 2.5

Strong Petrol odor
Sheen

	Temp °C	EC	NS	pH	
1100 0 1110	6.2	420.4		7.45	gray
1 + DRY	4.3	434.7		7.16	gray
1130 2 + DRY	4.3	420.4		6.82	gray-clear gap
1145 3 + DRY	4.0	419.8		6.96	gray-green
1230 4 + DRY	3.6	414.1		6.92	gray

Northeast Cape

Deployment 8847

Depth = 19.09
to Gas = 14.01
Slug = 5.01
Purge = ~2.5 gal

Very Dark
Petrol odor

Very good Producer

Temp°C	EC NS	pH
4.5	403.2	6.97
9.3	424.4	6.86
3.1	418.5	6.89
2.7	406.7	6.81
2.9	402.6	6.80
2.9	402.8	6.71
2.9	400.6	6.76
2.9	398.7	6.78

8-19-02

8-19-02

Northeast Cape

Development MW 88-8

Total Depth = 18.70
Depth to GW = 14.54
Water Column = 4.16
3x1 purge = 2 gallons

Very fain Petrol odor sheen

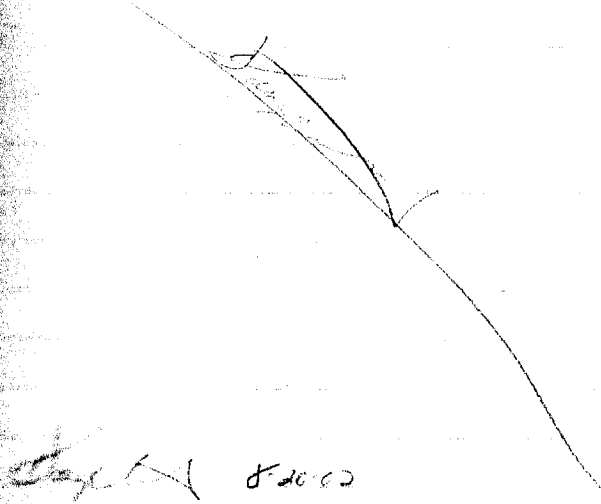
	T°C	EC µS	pH	
0	4.2	412.3	7.75	1230
1	3.9	477.7	7.13	1235
2	2.9	466.9	7.18	1237
3 dry	2.9	458.1	7.05	1240
3+ dry	2.9	459.0	6.74	1245
4 dry	2.9	453.8	6.73	1255
5 dry	2.9	397.4	7.06	1330
6 dry	3.1	380.6	6.96	1340
7 dry	3.0	380.2	6.98	1400

8-19-02

Northeast Cape

Depart to NEC - weather and plane delays - to lack of availability from total recall of an engine part which left very few planes available for the day.

Begin day @ NEC - Shortened day due to delays in weather / Plane availability



8-20-02

22

8-20-02

Northeast Cape

Sampling MW 88-6

Total Depth = 15.20 — Dark Gray
Depth to H2O = 10.43 — Very Turbid
Water Column = 4.77 — sheen & odor
3x 1 purge = 2.5

		Temp°C	EC µs	pH	DO	Turb	CO_2
0	1230	4.4	411	7.52			
1	1240	3.2	398.9	7.33			
2	1245 dry	3.0	419.6	7.00			
2+	1300 dry	3.0	413.0	7.09			

1" Tool Knob — 3"

7 1/2"

8-20-02

Northeast Cape

MW 88-7

Depth = 19.02 — Very Turbid
H2O = 14.02 — Petrol Odor
Column = 5.00 — sheen
= 2.5

Temp°C	EC µs	pH	DO	Turb	CO_2
2.4	364.9	7.73			
2.3	480.4	7.4			
2.1	412.4	7.12			
2.1	468.0	7.00			
2.1	397.1	6.73			
2	398.6	6.75	NA	7/1000	NA

8-20-02

8-20-02 Northeast Cape

Sampling MW 88-8

Total Depth = 18.7
Depth to GW = 14.6
Water Column = 4.1
3x 1 purge = 2

	Temp °C	EC µS	pH	DO	Turb	CO_2
0 1420	2.9	380.1	6.99			
1 1430	2.8	374.9	6.83			
2 1440 DRY	2.8	402.4	6.79			
2 1500 DRY	2.8	401.6	6.77			

8-20-02

8-20-02 Northeast Cape

Development MW 88-9

Total Depth = 24.45
GW = 20.24
Column = 4.21
3 x 1 gal ≈ 2 gal

Brown as opposed to grey for all preceding GWs

NO VISIBLE SHEEN OR PETROL ODOR

	Temp °C	EC µS	pH	
1 1530	3.0	142.3	7.51	Drill Tam Brown.
2 1540	3.3	119.7	7.45	
3 1550	3.3	106.0	7.23	
4 1600	3.2	101.6	7.09	
5 1610	2.8	91.7	6.78	
6 1620	2.3	82.0	6.54	
7 1630	1.6	77.6	6.46	
8 1640	1.9	70.2	6.45	Cleaning up starts
9 1650	2.3	58.0	6.40	
10 1700	2.3	52.6	6.40	Still fair but Cleaning

8-20-02

8-20-02 Northeast Cape

Development MW 88-10

Total Depth = 26.00
Depth to GW = 24.29
Water Column = 1.71
3x 1 purge = 3/4 gallon

	Temp °C	EC µS	pH
0 1630	3.6	382.1	6.02

Dry No Water Well. Not Recharging
Approx 0.5 gallons of very thick grey silty
Well Completely Dry, May not be able to
Will Collect purge directly from well.
Both Diesel Odor and Sheen

1700 dry
1800 dry

8-20-02

8-21-02 Northeast Cape

0830- Prep Sample Coolers for Shipment.
0[illegible] @ Base Alt. Metal Delayed due to poor visibility
- Savoonga, No weather report for OSE.
- Depart for Northeast Cape
- Arrive Northeast Cape
- Gear to Sample MW 9[illegible]
- Bucket and Rope on site today for well through

[illegible] MW-

Depth = 26.00
[illegible] = 24.98
Column = 1.02
[illegible] = 0.5 gal - No Purge due to poor Recovery
Directly minimal volume. Very dark grey, Silty, sheen

	Temp °C	EC µS	pH	DO	ORP	CO2
-	3.6	422.1	7.68	NA	>1,000	NA

[illegible] 0810 1450 Sample Collected from 1400 - 1730

8-21-02

8-21-02 Northeast Cape

1500

Sampling MW-9

Total Depth = 24.45

Depth to GW = 20.22

Water Column = 4.23

3 x 1 Purge ≈ 2 gal

		Temp°C	EC µS	pH	DO	Turb	Cl2
0	1430	4.6	92.9	8.00			
1	1435	2.7	88.1	7.82			
2	1440	2.6	87.1	7.41			
3	1442	2.3	85.4	7.15			
4	1445	2.3	84.8	6.97			
5	1450	2.3	84.7	6.95			
10	1500	2.3	81.9	6.86			

Very Good Producer only well to clear

related steam

No odor, No Sheen, [illegible]

2020 - Depart NSC for room

2115 - Arrive NSC

8-21-02

8-22-02 Northeast Cape

0630 - Pack Samples for shipment

0730 - Depart Home for NSC

- Arrive NSC
- Excavate 6 backhoe dug trenches 19-20
- Collect Seed Oil dox to evidence bag
- Photo documentation

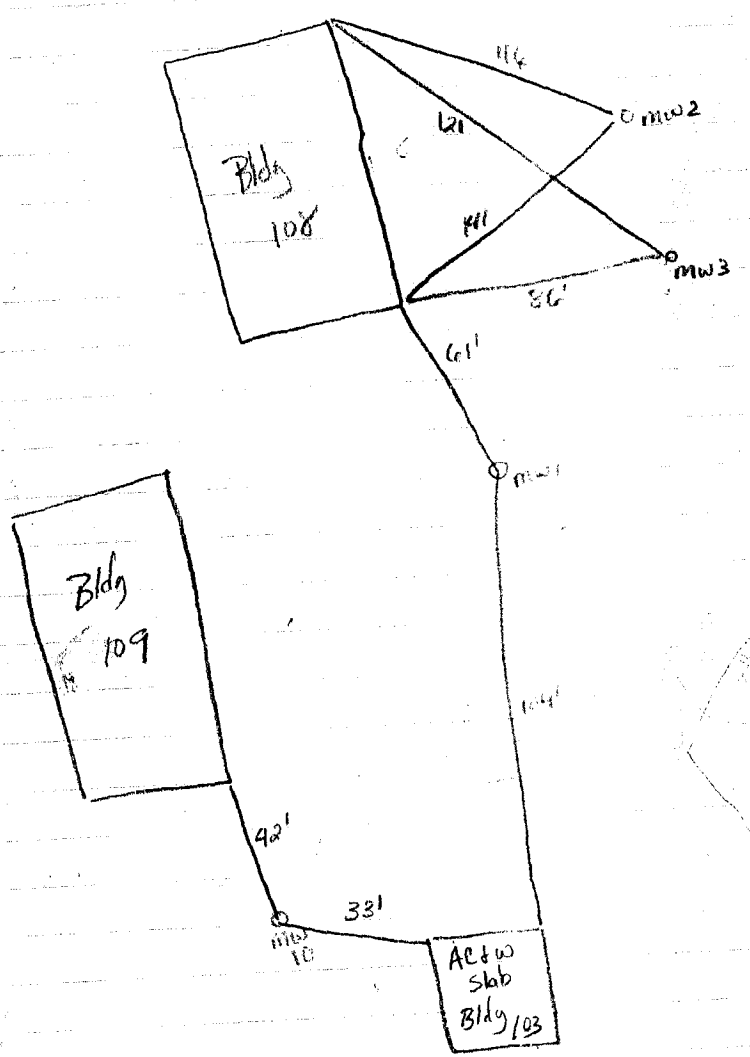
Begin Demob of equipment, cover on site today with contractors

Perform Survey Tie of MW locations w/ RTK

8-22-02

30

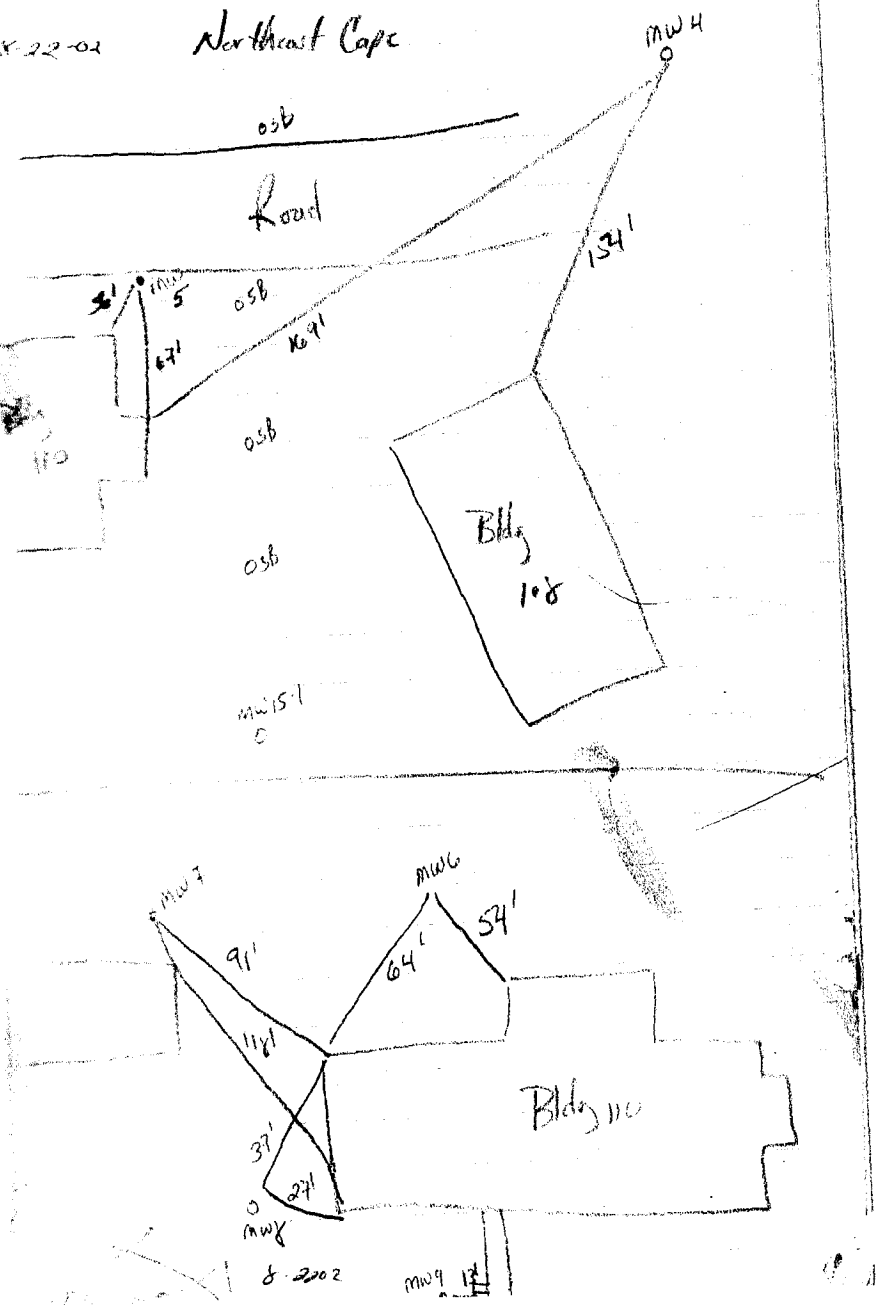
8-22-02 Northeast Cape



8-22-02

31

8-22-02 Northeast Cape



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All-Weather Notebook
No. 391

William A. O'Connell
Northeast Cape 2002
1850574.260120
USACE

4 5/8" x 7" - 48 Numbered Pages

NEC 2002 Fieldwork
1850574.260120 BOL

8-12-02

1430 Anchorage Airport

≈1700 Depart Anchorage

1930 Arrive Nome
- Mobilize gear
- go to Apt.

2200 End of Day

6 hrs

BOL

NEC 2002 Fieldwork
1850574.260120 BOL

8-13-02

0715 pickup Bonnie go to Bering Air + Alt Airlines set gear, drop off at Apt.

0900 Bering Air check in depart for NEC with.
Doug Quist
Bonnie McLean
Ralph + Greg from Disco. Drillings
Michael + Miriam Toolie

1030 Arrive NEC
clean up at terminal bldg.
walk site, place MWs + Soil borings
discuss logistics

1930 Lynden transport Arrives with gear, drill rig, Atvs etc.
- unload gear, set up, weather-proof

2200 Done for Day 14hrs BOL

NEC 2002 Fieldwork
1850574.260120 AOC

8-14-02

0700 Wake up eat, set up camp
Safety meeting, weather-proofing

1230 Bering Air Arrives with drill bits
· mob to site, heat up H_2O,
set up D-Con station.

1300
Drill MW88-1 and MW88-2
See field note forms + Bonnie McLeans field notes for details

1930 Depart for Nome

2030 Arrive Nome
end of Day - 13 hrs

NEC 2002 Fieldwork
1850574.260120 AOC

8-15-02

0730 Run Errands, go to Bering Air

0900 Depart for NEC

1000 Arrive NEC
fill Potable H_2O bottles for Decon.
Help drillers with steam-cleaning Augers.

Mob to site, heat H_2O

1200 Start Drilling MW 88-3

1300 Break Drive-line @ 13'
stop drilling
Done for day, call Bering Air,
Call DBCo. drilling.

NEC 2002 Fieldwork
1850574.260120 BCL

8-16-02

1300 ~~0900~~ BCL 0900 Waiting for parts
Depart for NEC
with new Drive shaft

1400 ~~1000~~ BCL Arrive NEC
oops! Drive shaft too short

Call plane

1500 Depart NEC

1650 Arrive Home

BCL

NEC 2002 Fieldwork
1850574.260120 BCL

8-17-02

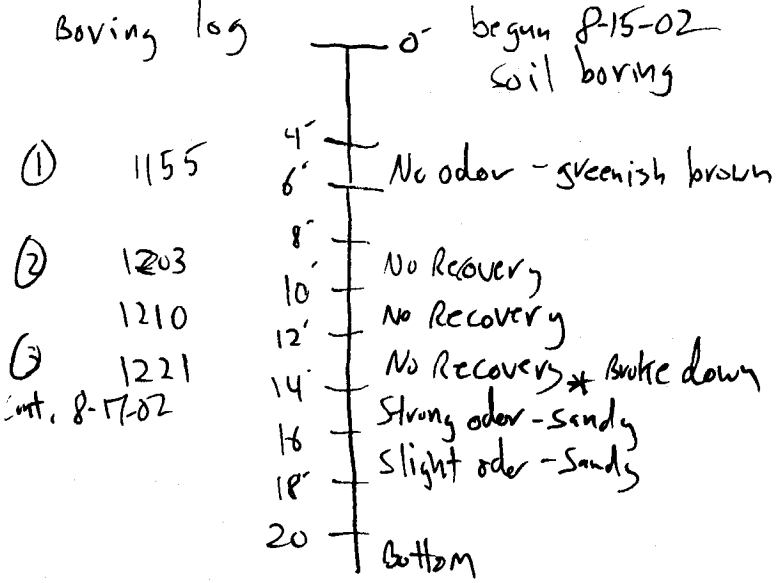
0915 Depart Home with welded Drive shaft

1030 on site, Mob to MW88-3

1100 Drilling MW 88-3

1230 Constructing MW88-3

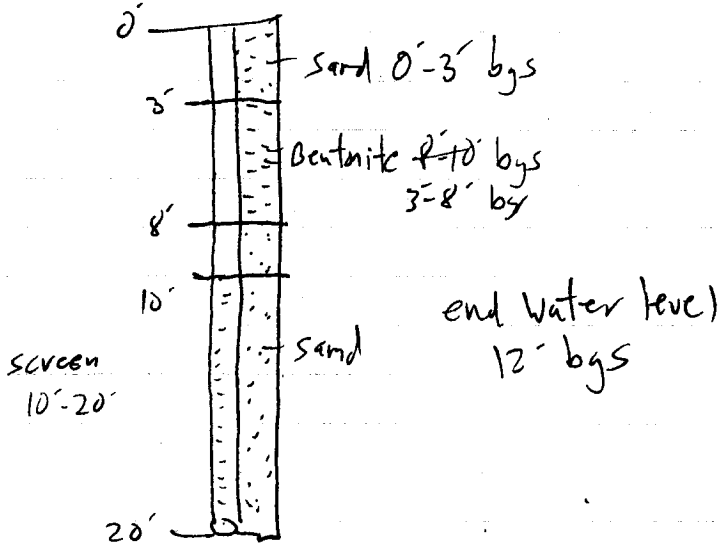
Boring log



NEC 2002 Fieldwork
1850574.260120

BOE

8-17-02 MW 88-3 2" PVC Well



end water level 12' bgs

See Field note forms & Bonnie Mclean field notes for PIDs and Sample ID #s

BOE

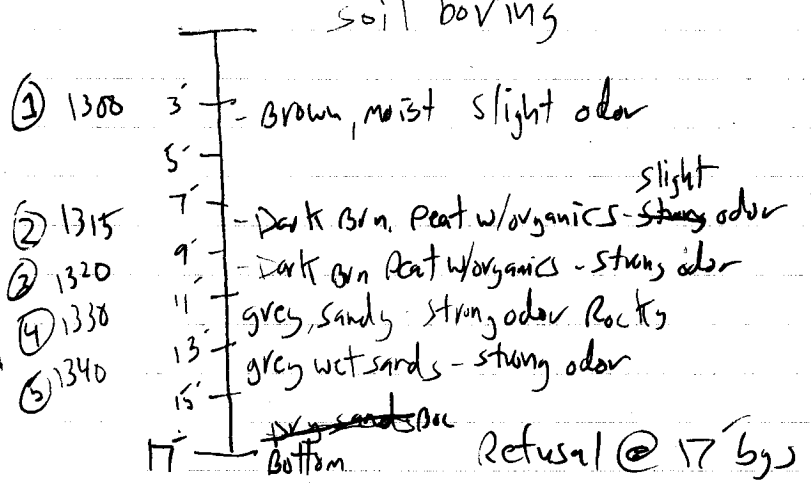
NEC 2002 Fieldwork
1850574.260120

BOE

8-17-02 MW 88-4

1300 Drilling MW 88-4

soil boring



Refusal @ 17' bgs

End water level 15.5' bgs

odor seems concentrated in sandy layers, No obvious staining PIDs on Borehole Log

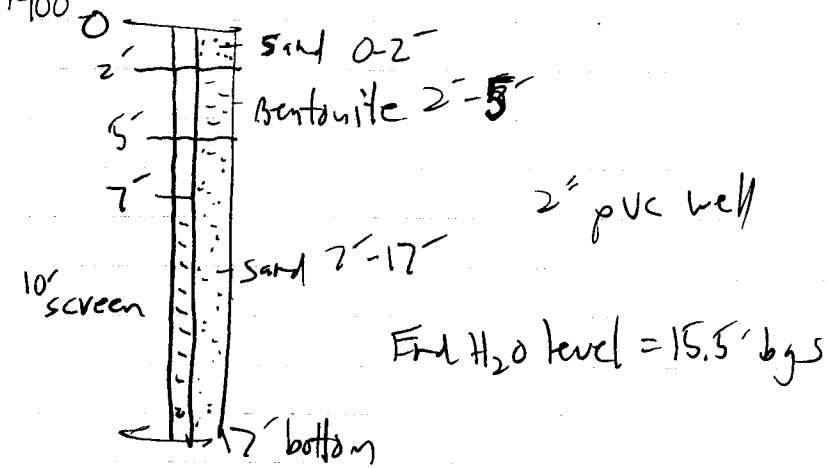
BOE

NEC 2002 Fieldwork
1850574.260120

8-17-02 Bec

MW 88-4 Construction

1400



Find H_2O level = 15.5' bgs

1430 Return to Camp eat, set up C-filter for Deco in water
Decon Augurs, prepare samples, get potable H_2O etc,

1530 setting up at MW 88-5

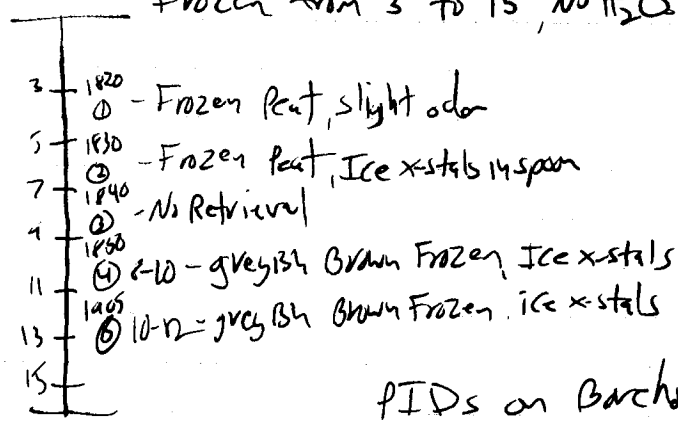
Bec

NEC 2002 Fieldwork
1850574.260120

Bec

8-17-02 MW-88-5

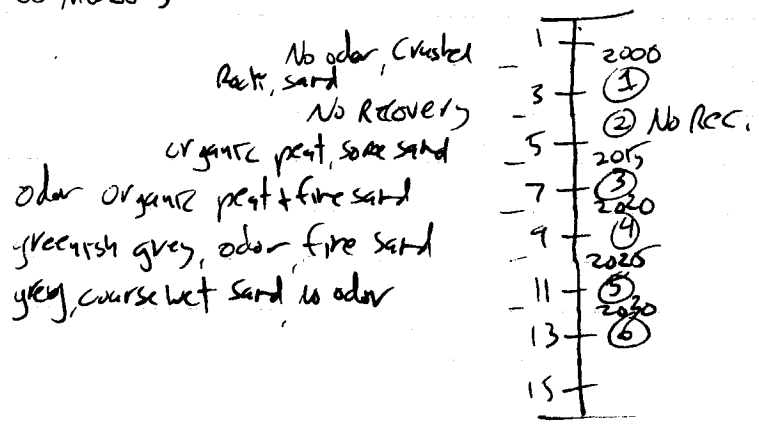
Frozen from 3' to 15', No H_2O



PIDs on Borehole log

No H_2O MW 88-5 = SB 88-11

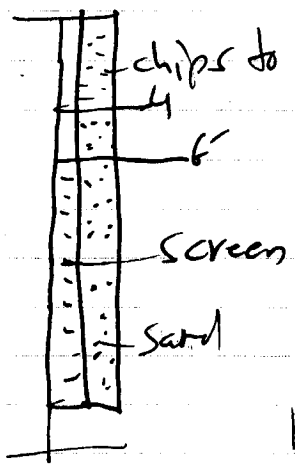
2000 MW 88-5



H_2O @ 11.5 Ft.

NEC 2002 Fieldwork
1850574.260120

8-17-02
2040 MW88-5



H_2O @ 11 ft

2100 clean up, fill H_2O jugs

2200 end of day

BOL

NEC 2002 Fieldwork
1850574.260120

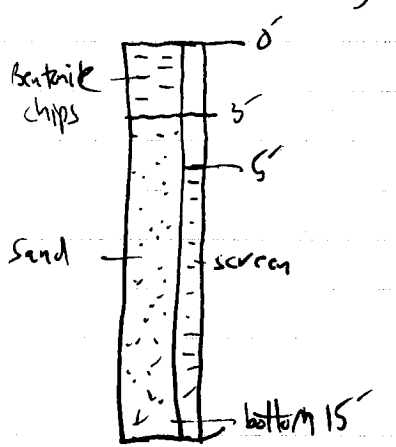
8-18-02 BOL

0800 get up, Mob to site
clean Augurs, heat water H+S meeting
88-5 H_2O level = 10.3' bgs

1100 start drilling MW 88-6

	0	Fill Angular, rocks 3"-5" d.
1130	3'	No odor - silt + Fine sand greyish brown
①	5'	Geotech sample 4'-6'
1140		No odor - silt + Fine sand greyish brown
②	7	
1145		strong odor ~~silt + fine sand~~ soc sands + gravels
③	9	
1150		- Moist, dense, no odor silt + fine sand
④	11	
1155		strong odor, sand + gravel, moist, unconsolidated
⑤	13	
	15	bottom 15.5

PIDs on borehole log



1200 building well

End water Level 10.85

1230 Heating H_2O

BOL

NEC 2002 Fieldwork
1850574.260120

8-18-02

1300 Setting up @ MW 88-7

1310 Drilling

1320 ① 3' crushed Rock + sand no odor, dry

1330 ② 5' brown sand, no odor

1335 ③ 7' odor crushed rock + sand, Brownish grey

1342 ④ 9' odor, crushed rock + sand

1358 ⑤ 11' oder, grey sand + gravel

1355 ⑥ 13' odor moist grey sand + silt

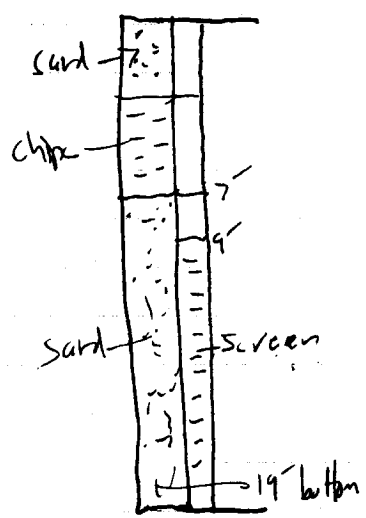
15'

17'

bottom @ 19'

PIDs on borehole log

1400 building well



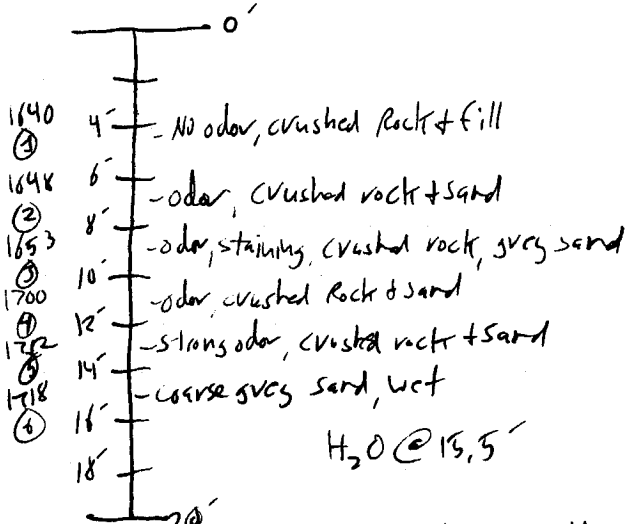
NEC 2002 Fieldwork
1850574.260120

8-18-02

1440 Return to Camp, eat, clean Augers, get H_2O

1530 Heating H_2O for Decon

1600 Drilling MW 88-8



H_2O @ 15.5'

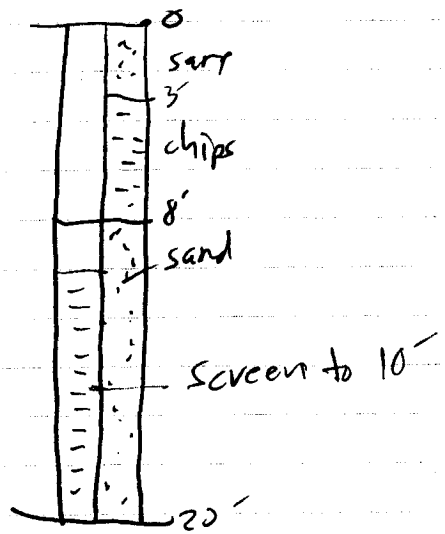
1730 Building Well

PIDs on Borehole log

NEC 2002 Fieldwork
1850574.260120

Bae

8-18-02
1730 MW 88-8



1830 Depart for Mine

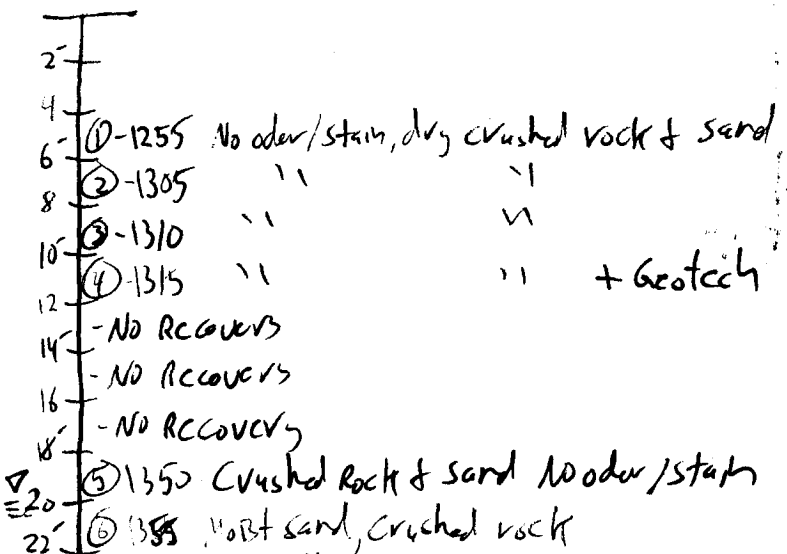
2000 Paperwork
End of Day

Boz

1850574, 260120

8-19-02
0800 pick-up Johanna + Don Mullikin
Pack for NEC
0915 Depart Nome
1015 Arrive NEC, get Water, H+S meeting
Mob to site
1100 Heating H_2O, Drillers Decanning Augers
1130 Helping Drillers Decon

1255 MW 88-9 - Drilling



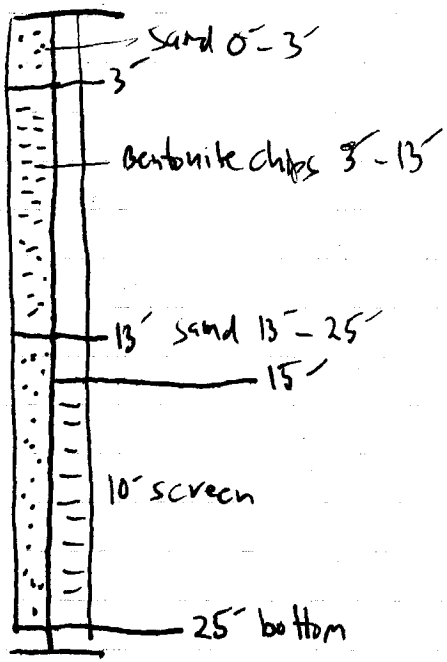
1415 Building well
PIDs on Bore hole log

BL

1850574.260120

8-19-02

1425 Building MW88-9



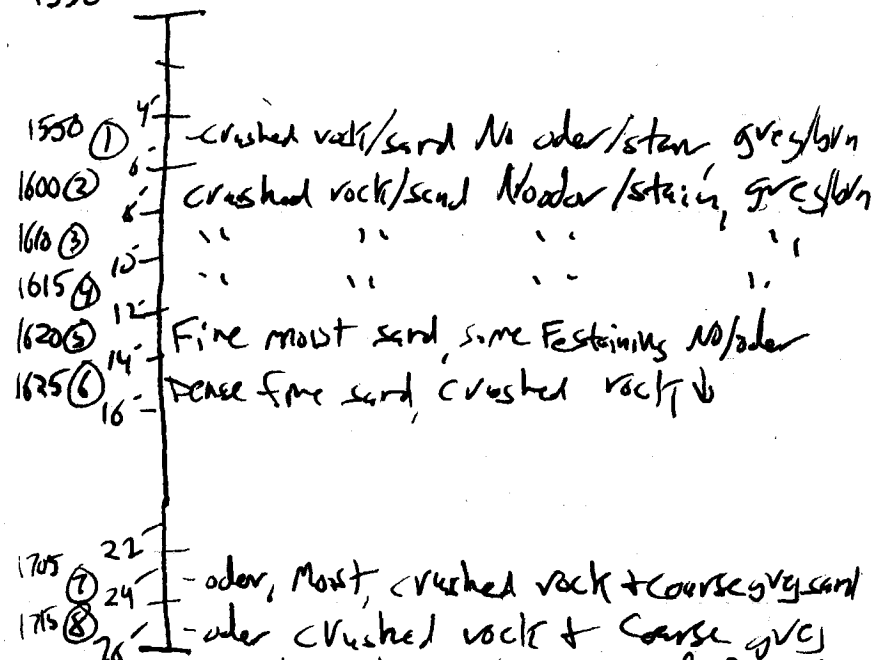
NEC 2002 Fieldwork

1850574.260120

8-19-02

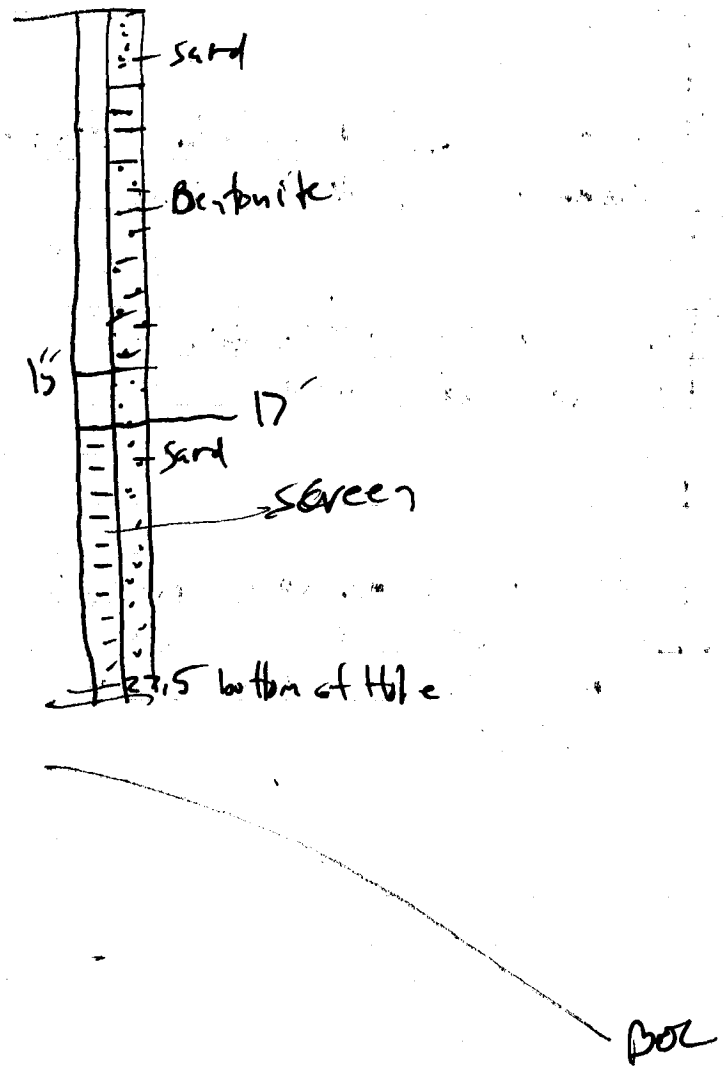
MW 88-10

1530



NEC 2002 Fieldwork
1850574.260120

8/19-02
1730 MW 81-10

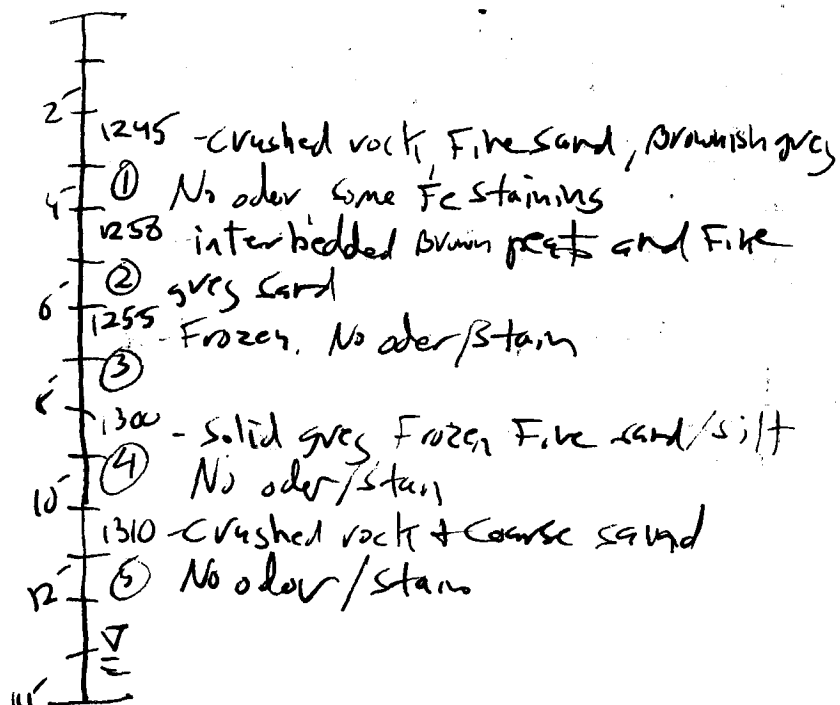


BOE

1850574.260120

8-20-02
0830 Arrive Barrick Am
Waiting for parts to arrive
from Welder
0930 Depart Mine
1030 Arrive NEC
Decon Augers, get water

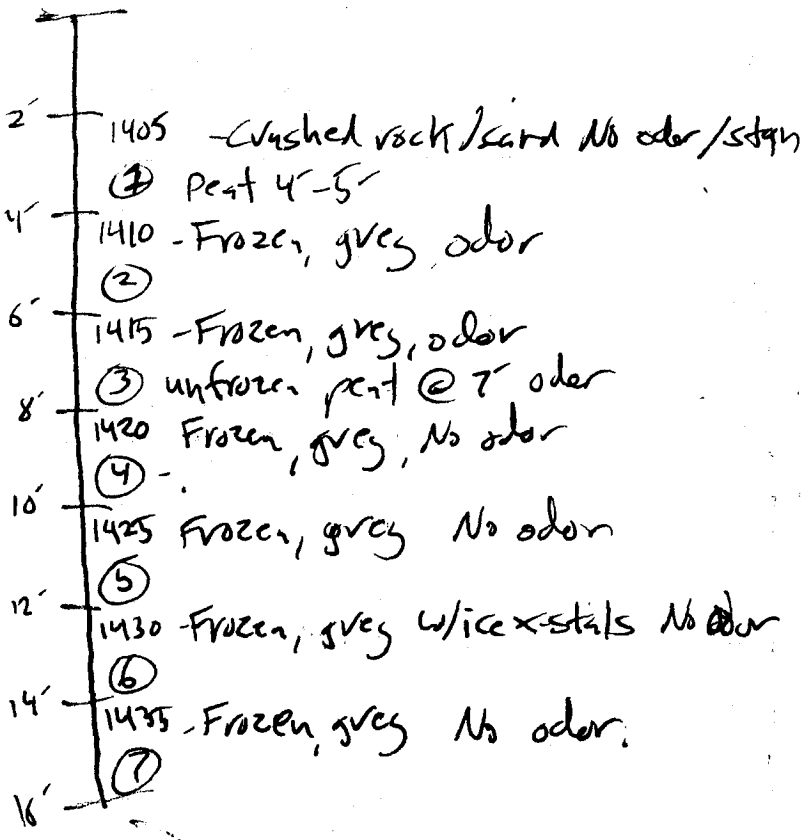
SB 12



BOE

1850574. 260120

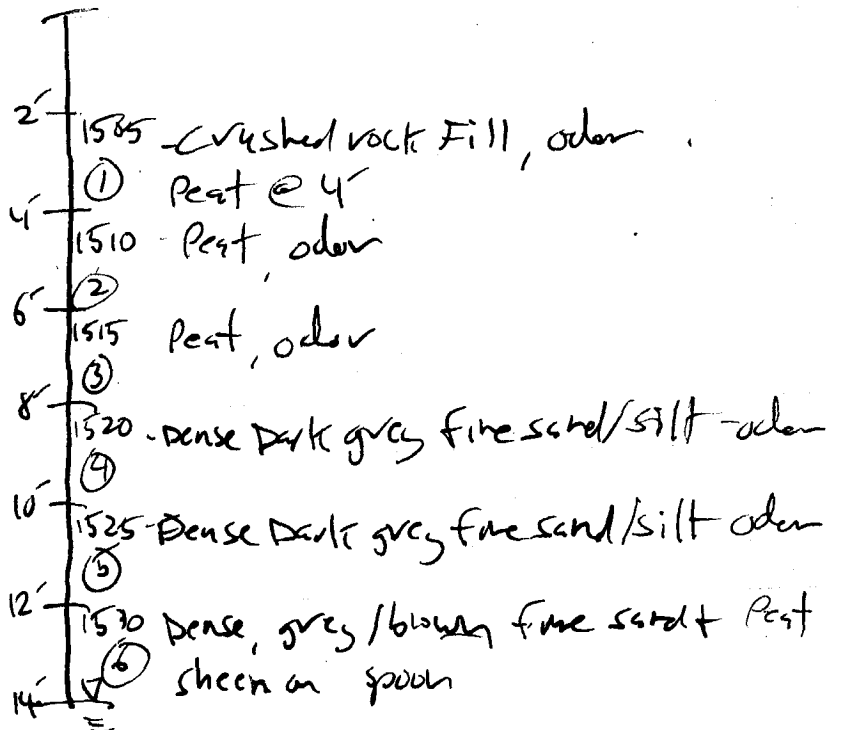
8-20-02
~~Depart Home at 30 am~~
1400 SB 88-13



302

NEC 2002 Fieldwork BCE
1850574.260120

8-20-02
1500
SB 88-14



BCE

NEC 2002 Fieldwork
1850574.260120

~~8-20-02~~
1700
SB 88-15

2'
4'
1715 - Crushed rock + sand No odor
(1)
6'
No Rec.
8'
No Rec
10'
1730 - Moist, sticky Fine grey sand/silt
12'
(2) No odor
(3) - Fine grey silt + sand No odor
1735 some Iron staining

Boring continued to 21 feet, then Auger filled with H_2O to 13', only samples <13' collected

→ BL

NEC 2002 Fieldwork
1850574.260120

~~8-20-02~~
1830
SB 88-16

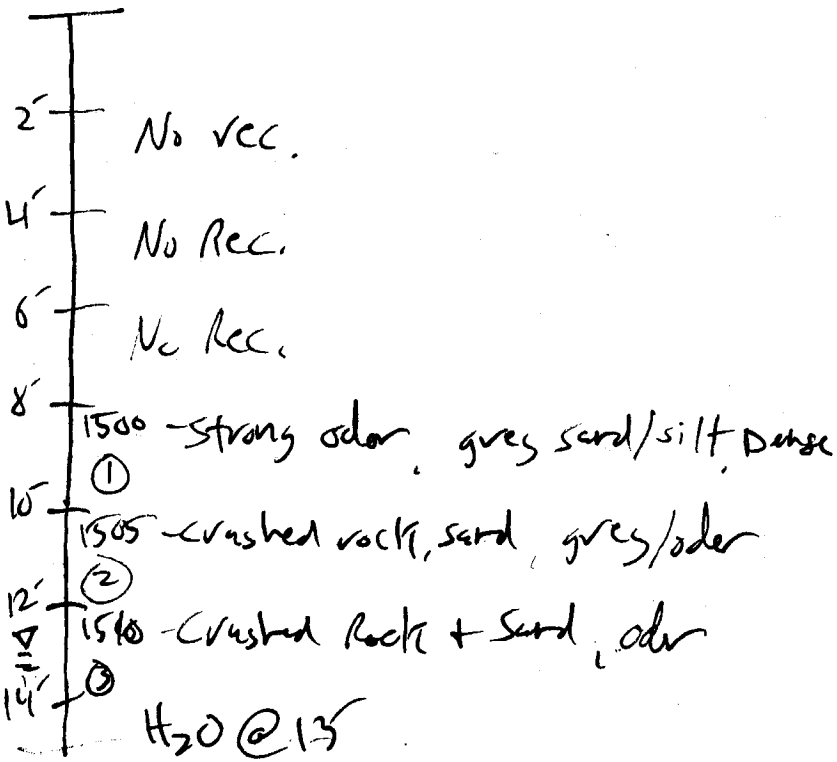
2'
4'
1845 Crushed rock, Brown sand odor
(1)
6'
1858 - crushed rock, sand, odor
8'
(2) Geotech T-9'
1900 - crushed rock, Coarse brown/grey sand
10'
(3) odor
1905 - Crushed rock, Coarse grey sand
12'
(4) odor
▽ - Saturated crushed rock, sheen
14'

→ B02

1850574, 260120

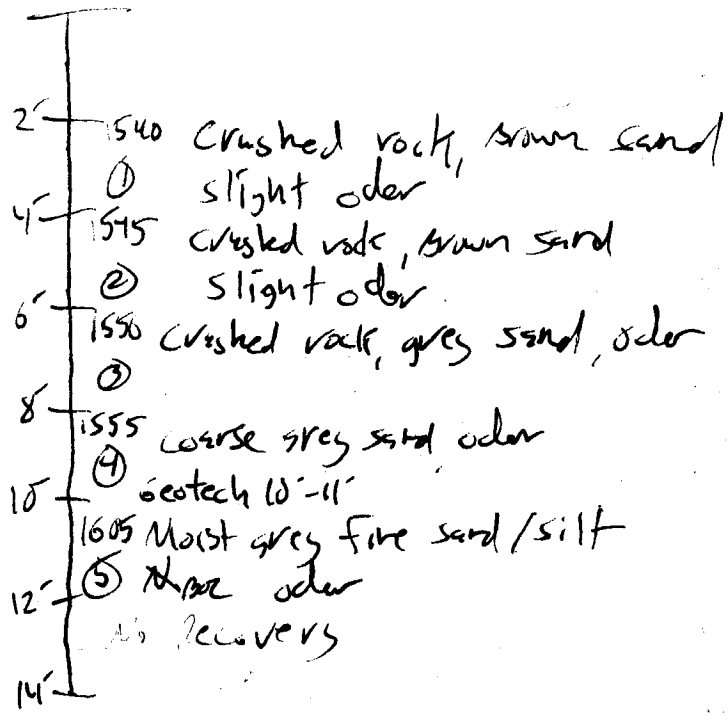
8-21-02
Depart Nome 1230 after
weather delay

1435 SB 88-17



NEC 2002 Fieldwork
1850574.260120

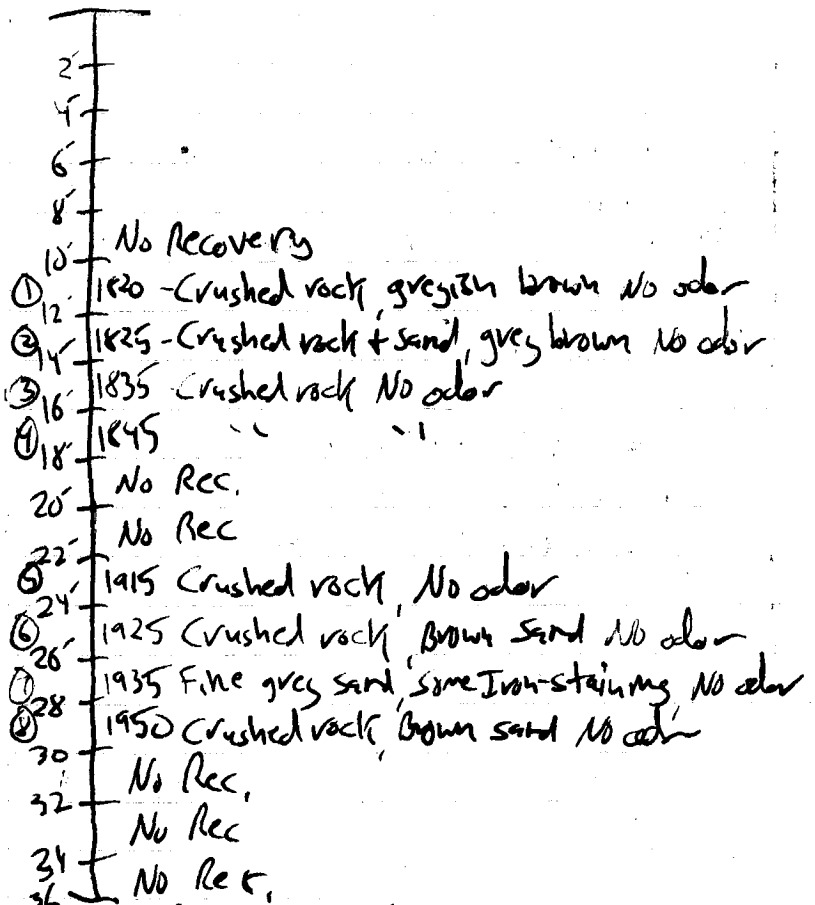
8-21-02
1530
SB 88-18



ARRIVE Nome 2100

NEC 2002 Fieldwork
1850574.260120

8-22-02
~~Depart abt~~ Boc
SB 88-20 1740

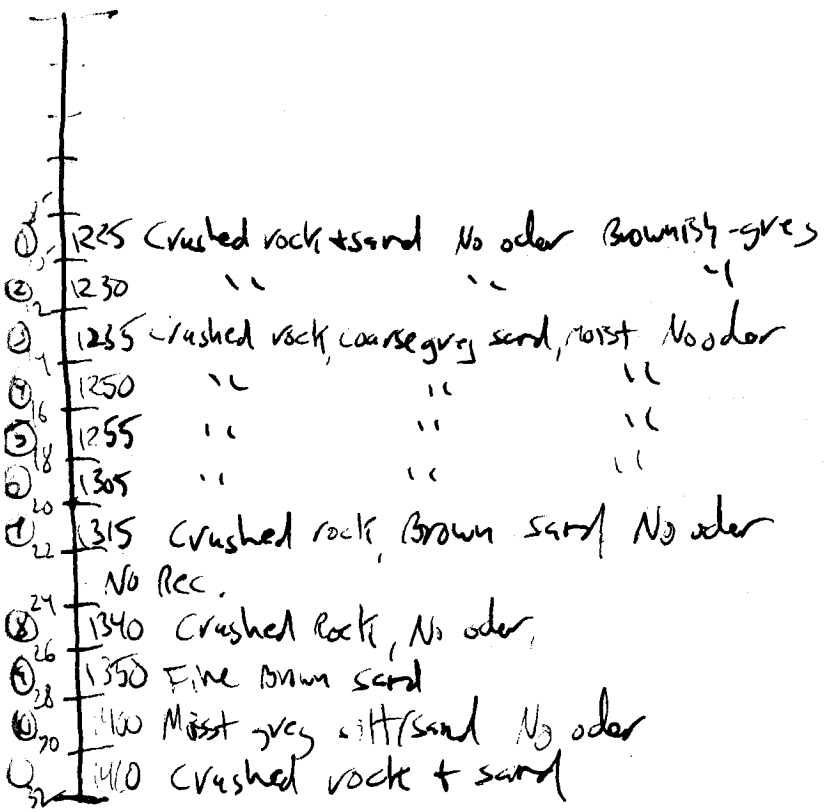


BJC

1858574, 260120

8-22-02
0830 Depart None
0930 Arrive NEC, start
packing finish SB 88-20

SB 88-19



BJC

1850574, 260120

8-22-02
Arrive Nome 1900
Depart Nome 2130
After Delay
Arrive Anc. 2330
After Delay

BOL

NEC 2002 Fieldwork
1850574.260120

BOL

PID Log

SB88-12

Sample #	PID
1	65.0
2	89.0 #23
3	48.0
4	65.0
5	53.0 #24

SB88-13

1	79.9
2	35.7
3	153 #25
4	51.0
5	55.1
6	91.0
7	11.2 #26

SB88-14

1	6080 #27
2	788
3	120
4	172
5	505
6	150 #28

SB 88-15

Sample #	PID
1	120
2	2779 #29
3	133 #30

SB 88-16

1	655
2	1558 #31
3	1142
4	2672 #32

SB 88-17

1	9999+ #33
2	2815
3	9999+ #34

SB 88-18

1	225
2	253
3	2413
4	4903 #35
5	4113 #36

KL

NEC 2002 Fieldwork
1850574.260120

PID Log

SB 88-19

Sample #	PID
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0

SB 88-20

1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0

BSL

1850574.260120

BSL Sample summary

Borehole #	Samples 02NE88....
MW1	SB001 (MS/D), SB002
MW2	SB003, SB004 BSL
MW3	SB005, SB006, 206, 306
MW4	SB007, SB008
MW5	SB009, SB010
MW6	SB011, SB012
MW7	SB013, SB014
MW8	SB015, SB016 (MS/D)
MW9	SB017 (MS/D) SB018
MW10	SB019, SB020

↓ ↓ BSL

1850574.260120

Sample summary (Cont.)

Borehole #	Sample O2NE8V...
SB-11	SB021, SB022
SB-12	SB023, 024
SB-13	SB025, 026
SB 14	SB027, 028
SB 15	SB029, 030
SB 16	SB031, 032
SB17	SB033, 034, 234
SB18	SB035, 335 (MS/D), 036, 236
SB19	SB037, 237, 038, 338
SB20	SB039, 239, 040, 340

0(18) = Primary 3(40) = QA
2(39) = Dup

BOC

1850574.260120

Geotech samples

Borehole	Sample ID O2NE8V...
SB-6	SB041
SB-9	SB042
SB-16	SB043
SB-19	SB044

All Primary, Dup + QA analyzed for DRO/RRO, GRO/BTEX PAH, PCB, Pb, Zn, Cr and TOC

For GW info see DQ field notes

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No. 391

Johanna Dreher
NEL 2002 Field Notes
185074.260120
USACE

4 5/8" x 7 - 48 Numbered Pages

1850574.260120

8-14-02

0745 - Arrive at Anchorage Airport
Flight 152
Anchorage to Nome via Kotzebue

1215 Arrive in Nome
pick up Van at Bering Air
drive to Nanvaq Mannor

1430 Upack Office and Lab supplies

2000 Bonnie, Doug, Bill arrive back from NEC

Store Samples

End of Day

Johanna Dehn

1850574.260120

8-15-02

0730 Leave to pick up supplies
arrive at Bering Air

0900 Bering Air Check in
Depart for NEC

1000 Arrive at NEC
Mob to site
Health + Safety Meeting

1200 Start Drilling MW 8E-3

1300 Break Drive-line @ 13'
Stop Drilling
Done for day

Johanna L. Dehn

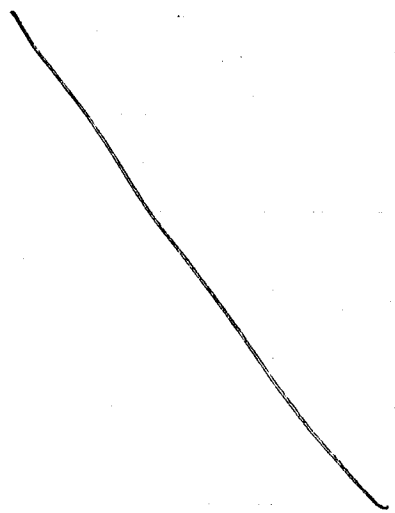
1850574.260120

8-16-02

0700 Nome airport
back to Anchorage

Call Mingta - No Samples shipped

1130 back @ MWH Office



Johnnie G. Dukes

1850574.26012

8-19-02

0530 arrive at Anchorage Airport

0830 arrive in Nome

0915 Bering Air Charter

1000 Health and Safety -
Tailgate

1245 MW-88-9 Drilling
to wash Split spoons

1415

JLD
1520 - MW88-10 Drilling
to
1715 wash split spoons

1900 leave NEC

2000 Arrive in Nome

Pack Coolers

JLD

1850574. 260120

8-20-02

0830 Arrive Bering Air
wait for parts to Arrive

0930 Depart Nome
1030 Arrive NEC
1100 Health + Safety
Tail gate

1145 Soil Boaring 88-12
wash split spoons

1400 ~~SB~~ typ 88-13 ~~DHP~~
wash split spoons

1500 SB 88-14
wash split spoons

1700 SB 88-15
wash split spoons

1830 SB 88-16
wash split spoons

2000 Leave NEC

2100 arrive Nome

prepare Samples

Johanna L. Dahy

1850574. 260120

8-21-02

0830 Bering Air

Weather Delay

1230 Depart Nome

1330 arrive NEC

1435 SB 88-17
wash Split Spoons

1530 SB 88-18
wash Split Spoons

1740 SB-20
wash Split Spoons

2100 Arrive in Nome

Pack Coolers

Johanna L. Dubs

1850574. 26012

8-22-02

0800 - Bill, Doug to Bering Air

0900 - Cooler to Alaska Airlines

1200 - Nome Airport

1400 - Back at MWH offices

Johanna L. Dubs

MWH
MONTGOMERY WATSON HARZA

DATE 8-12-02

DAY	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
		X					

Project Manager McLean

Project Northeast Cape

Job No. 1850574. 260120

Contract No. _____

Weather	BrightSun	Clear X	Overcast X	Rain	Snow
Temperature (°F)	Below 32	32 to 50	50 to 70	70 to 85	Above 85
Wind	Still	Moderate	High	Report No.	
Humidity	Dry	Moderate	Humid	61	

SUBCONTRACTORS ON SITE:

Discovery Drilling

EQUIPMENT ON SITE: CME 45 truck mounted ~~ATV (3)~~, WQ meters, PID, SAT phone, Sup. Supplies, 1-Sugma, 1-Method (only for one day)

WORK PERFORMED (INCLUDING SAMPLING):

Travel to NOM
Arrive to late to pkup Cargo @ AKAH
Move into ~~Apt~~ 101 & Apt 102.

PROJECT: Northeast Cape **REPORT NO.:** 01

JOB NO.: 1850574. 260120 **DATE:** 8-12-02

QUALITY CONTROL ACTIVITIES (INCLUDING FIEDL CALIBRATION AND STANDARDIZATION):

100 Bgm N/A

Microtop calibrated at 97 ppm isobutylene

EC

pH

DO

Turb.

CO_2

HEALTH AND SAFETY LEVELS AND ACTIVITIES: 150 Daily safety tailgate meeting completed

INJURIES	ACCIDENTS:	NEAR MISSES:
: 0	0	0

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN: N/A

FIELD CHANGES: none

SPECIAL NOTES: none

TOMORROW'S EXPECTATIONS: Travel NEC; unload HERC; Set-up WATER System

BY: [signature] **TITLE:** FTL/PM

MWH
MONTGOMERY WATSON HARZA

DATE 8-13-02

DAY	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
			X				

Project Manager McLean

Project Northeast Cape

Job No. 1850574. 260120

Contract No. _____

Weather	BrightSun X	Clear X	Overcast	Rain	Snow
Temperature (°F)	Below 32	32 to 50 X	50 to 70	70 to 85	Above 85
Wind	Still	Moderate X	High	Report No.	
Humidity	Dry X	Moderate	Humid	2	

SUBCONTRACTORS ON SITE:

Discovery Drilling

EQUIPMENT ON SITE: CME 45 truck mounted

ATV (3), WQ meters, Used 1 m. chain saw ATV

PID, Sat phone, Emp. Supplies one day only

WORK PERFORMED (INCLUDING SAMPLING):

Traveled to NEC (NAJ); Waited for Helo

Arrived 1930; Left 2022

Offloaded & staged equipment

Set up tent in Terminal Bldg

Eugene & Floyd at site

Rented Eugenes ATV & trl.; Michaels

TRE. for today.

Floyd will start work Wed.

We used cabin for night

End 2345.

PROJECT: Northeast Cape **REPORT NO.:** 2

JOB NO.: 1850574. 260120 **DATE:** 8-13-02

QUALITY CONTROL ACTIVITIES (INCLUDING FIEDL CALIBRATION AND STANDARDIZATION):

Microtop calibrated at 97/100 ppm isobutylene Bgm

EC N/A

pH

DO N/A

Turb.

CO_2

HEALTH AND SAFETY LEVELS AND ACTIVITIES: @ 1000 Daily safety tailgate meeting completed

INJURIES:	ACCIDENTS:	NEAR MISSES:
0	0	0

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN: LATE cargo plane available; Discovery dredging from drill bits.

FIELD CHANGES: Called Obanna to come ~~Tues~~ Wed for Thurs. travel to Nec.; Called Kyle drill bits to be out Am

SPECIAL NOTES:

TOMORROW'S EXPECTATIONS: Setup water shut new Construction; Complete Stream flow Start new construction

BY: [signature] **TITLE:** FTL

MWH
MONTGOMERY WATSON HARZA

DATE 8-14-02

DAY	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
				X			

Project Manager McLean

Project Northeast Cape

Job No. 1850574. 260120

Contract No. _____

Weather	BrightSun	Clear	Overcast	Rain	Snow
			X		
Temperature (°F)	Below 32	32 to 50	50 to 70	70 to 85	Above 85
		X			
Wind	Still	Moderate	High	Report No.	
			X		
Humidity	Dry	Moderate	Humid	3	
	X				

SUBCONTRACTORS ON SITE:

Discovery Drilling
Floyd Rungeethreet Jr.

EQUIPMENT ON SITE: CME 45 truck mounted
ATV (3), WQ meters
PID, SAT phone, Pump Supplies

WORK PERFORMED (INCLUDING SAMPLING):

Set-up Water systems

Start construction @ 1300 MW 88-1; D, 18.5
Well Completed @ 18.5'

Started construction MW 88-2. completed
sampling @ 1720; well completion @ 1900; D, 17.0

Doug completed flow measurements.

Prepare samples for shipping.

Travel to Nome.

PROJECT: Northeast Cape **REPORT NO.:** 3

JOB NO.: 1850574. 260120 **DATE:** 8-14-02

QUALITY CONTROL ACTIVITIES (INCLUDING FIEDL CALIBRATION AND STANDARDIZATION):

Microtop calibrated at 97/100 ppm isobutylene yes

EC

pH

DO

Turb.

CO_2

N/A

HEALTH AND SAFETY LEVELS AND ACTIVITIES: 8 AM Daily safety tailgate meeting completed

@ 1000 (Floyd)

INJURIES:	ACCIDENTS:	NEAR MISSES:
0	0	0

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

Drill bits arrive on unscheduled NAJ i stood by 1130-1600

6 bottles acid spilled in cooler out most bottles contaminated; will use drum lab bottles

FIELD CHANGES:

SPECIAL NOTES:

Discovery = NAJ trip to bring out bits

TOMORROW'S EXPECTATIONS: Complete MW 3, 4, 5

BY: [signature] **TITLE:** FTL

MWH
MONTGOMERY WATSON HARZA

DATE 8-15-02

DAY	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
					X		

Project Manager McLean

Project Northeast Cape

Job No. 1850574. 260120

Contract No.

Weather	BrightSun	Clear	Overcast	Rain	Snow
			X		
Temperature (°F)	Below 32	32 to 50	50 to 70	70 to 85	Above 85
		X			
Wind	Still	Moderate	High	Report No.	
		X		4	
Humidity	Dry	Moderate	Humid		
	X				

SUBCONTRACTORS ON SITE:

Discovery Drilling

EQUIPMENT ON SITE: CME 45 truck mounted

ATV (3), WQ meters

PID, Sat phone, Smp. Supplies

WORK PERFORMED (INCLUDING SAMPLING):

Start MW 88-3; rig breaks @ 1230.

Doug Developing MW 88-1 & 88-2 No recharge

Arrive Nome @ 1630.

PROJECT: Northeast Cape REPORT NO.: 04

JOB NO.: 1850574. 260120 DATE: 8-15-02

QUALITY CONTROL ACTIVITIES (INCLUDING FIEDL CALIBRATION AND STANDARDIZATION):

Microtop calibrated at 97/100 ppm isobutylene yes

EC yes

pH yes

DO

Turb. yes

CO_2

HEALTH AND SAFETY LEVELS AND ACTIVITIES: yes Daily safety tailgate meeting completed @ 1100

INJURIES: 0

ACCIDENTS: 0

NEAR MISSES: Drill Rod & brake off & Flew from tower landing on Right side of drilling mid section

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

Drill Rig broke drill rod; Called mark for new part

FIELD CHANGES: To Nome early; Johanna to go home until Monday because of delay.

SPECIAL NOTES:

TOMORROW'S EXPECTATIONS:

New part arrives; can get to work

BY: [signature] TITLE: FTL

MWH
MONTGOMERY WATSON HARZA

DATE 8-16-02

DAY	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
						X	

Project Manager McLean

Project Northeast Cape

Job No. 1850574. 260120

Contract No. _____

Weather	BrightSun	Clear	Overcast	Rain	Snow
Temperature (^{0}F)	Below 32	32 to 50	50 to 70	70 to 85	Above 85
Wind	Still	Moderate	High	Report No.	
Humidity	Dry	Moderate	Humid	05	

SUBCONTRACTORS ON SITE:

Discovery Drilling

EQUIPMENT ON SITE: CME 45 truck mounted
ATV (3), WQ meters
PID, SAT phone, Smp. Supplies

WORK PERFORMED (INCLUDING SAMPLING):

Wait for new part; Ralph not very comm.
Arrive NEC @ 1540 with New part
Part doesn't fit; call Kyle; left part (broken) in Nome to be welded.
Call plane back; return to Nome.
Ralph to track down repaired rod.
Ralph finds repaired rod.

By

PROJECT: Northeast Cape **REPORT NO.:** 5

JOB NO.: 1850574. 260120 **DATE:** 8-16-02

QUALITY CONTROL ACTIVITIES (INCLUDING FIEDL CALIBRATION AND STANDARDIZATION):

Microtop calibrated at 97/100 ppm isobutylene

EC

pH

DO

Turb.

CO_2

HEALTH AND SAFETY LEVELS AND ACTIVITIES: Daily safety tailgate meeting completed 1540

INJURIES: 0 ACCIDENTS: 0 NEAR MISSES: 0

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

Port doesn't fit; Return to Nome find repaired tool.

FIELD CHANGES: No work

Delay Obama

No samples sent because only have one QA Trip blank.

SPECIAL NOTES: NAJ = Discovery

All Labor = Discovery

TOMORROW'S EXPECTATIONS: Start work

BY: **TITLE:** FTL

MWH
MONTGOMERY WATSON HARZA

DATE 8-17-02

DAY	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
							X

Project Manager McLean

Project Northeast Cape

Job No. 1850574. 260120

Contract No.

Weather	BrightSun	Clear	Overcast	Rain	Snow
Temperature (°F)	Below 32	32 to 50	50 to 70	70 to 85	Above 85
Wind	Still	Moderate	High	Report No.	
Humidity	Dry	Moderate	Humid	06	

SUBCONTRACTORS ON SITE:

Discovery Drilling

EQUIPMENT ON SITE: CME 45 truck mounted

ATV (3), WQ meters

PID, SAT phone, Sampling Supplies

WORK PERFORMED (INCLUDING SAMPLING):

883-Completed sampling & well @ 20.5 DT
screen well @ 20.0-10 bgs

Nugget arrives.

Water samples MW88-1 MW88-2 collected.

MW 88-4 Completed sampling @ 12' & well
Construction @ 17.0' DT; screen 16.5-6.5 bgs

MW 88-5 Becomes 88-11 because of frozen soils 3'-15'
moved south to place MW 88-5
completed sampling @ 11'; well completed
16.5 DT screen 16'-6' bgs

Bad weather prevents return to Nome.

Byer

PROJECT: Northeast Cape **REPORT NO.:** 06

JOB NO.: 1850574. 260120 **DATE:** 8-17-02

QUALITY CONTROL ACTIVITIES (INCLUDING FIEDL CALIBRATION AND STANDARDIZATION):

Microtop calibrated at 97/100 ppm isobutylene Bgm

EC yes

pH yes

DO

Turb. yes

CO_2

HEALTH AND SAFETY LEVELS AND ACTIVITIES: yes Daily safety tailgate meeting completed

INJURIES:	ACCIDENTS:	NEAR MISSES:
0	0	0

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

FIELD CHANGES: Stay NEC because of weather

SPECIAL NOTES: Unable to ship samples on Sunday as planned

TOMORROW'S EXPECTATIONS: MW 88-6 7 8
Return to Nome with Sampler

BY: [signature] **TITLE:** Bgm

MWH
MONTGOMERY WATSON HARZA

DATE 8-18-02

DAY	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
	X						

Project Manager McLean

Project Northeast Cape

Job No. 1850574. 260120

Contract No.

Weather	BrightSun	Clear	Overcast	Rain	Snow
			X	X	
Temperature (°F)	Below 32	32 to 50	50 to 70	70 to 85	Above 85
		X			
Wind	Still	Moderate	High	Report No.	
			X	07	
Humidity	Dry	Moderate	Humid		

SUBCONTRACTORS ON SITE:

Discovery Drilling

EQUIPMENT ON SITE: CME 45 truck mounted
ATV (3), WQ meters
PID, Sat phone, Purge supplies

WORK PERFORMED (INCLUDING SAMPLING):

MW88-6 Completed sampling at 14' bgs; well DT 16.5' screened 16 to 6 bgs

MW88-7 completed Sampling @ 14' bgs
Well completed DT 19.5; Screen 9-19 bgs

MW 88-8 completed Sampling @ 15.0; DT 20.5'
Screened 10-20' bgs

Proposed MW88-3, 88-4, 88-5

Return to Nome

Prepare coolers for Shipping

PROJECT: Northeast Cape **REPORT NO.:** 7

JOB NO.: 1850574. 260120 **DATE:** 8-18-08

QUALITY CONTROL ACTIVITIES (INCLUDING FIEDL CALIBRATION AND STANDARDIZATION):

Microtop calibrated at 97 / 100 ppm isobutylene

EC

pH

DO

Turb.

CO_2

HEALTH AND SAFETY LEVELS AND ACTIVITIES: Daily safety tailgate meeting completed

INJURIES: 0 ACCIDENTS: 0 NEAR MISSES: 0

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN: 0

FIELD CHANGES:

SPECIAL NOTES:

TOMORROW'S EXPECTATIONS: Ship coolers to Johnson Arrive, complete MW 88-10 SB 88-12 Decontaminate & Sample

BY: [signature] **TITLE:** FTL

MWH
MONTGOMERY WATSON HARZA

DATE 8-19-02

DAY	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
		✓	→			✓	

Project Manager McLean

Project Northeast Cape

Job No. 1850574. 260120

Contract No. _____

Weather	BrightSun	Clear	Overcast ✓	Rain ✓	Snow
Temperature (°F)	Below 32	32 to 50 ✓	50 to 70	70 to 85	Above 85
Wind	Still	Moderate ✓	High	Report No.	
Humidity	Dry ✓	Moderate	Humid ✓	CS	

SUBCONTRACTORS ON SITE:

Discovery Drilling

EQUIPMENT ON SITE: CME 45 truck mounted
ATV (3) ; WQ meters
PID ; SAT phone, Smp. Supplies

WORK PERFORMED (INCLUDING SAMPLING):

Johanna arrives; travel to NEC
Ben returns to Anch.
Reviewed all remaining tasks w/ Dory.

Sampled MW 88-3
MW 88-4
MW 88-5

Completed sampling & construction MW 88-9
28.0' bgs; DT 25.5'; screened 25-15 bgs

Completed sampling construction MW 88-10
@ 27.bgs; DT 27.5; screened 27.0 - 17.0 bgs

Developed MW 88-6
MW 88-7
MW 88-8

PROJECT: Northeast Cape **REPORT NO.:**

JOB NO.: 1850574. 260120 **DATE:**

QUALITY CONTROL ACTIVITIES (INCLUDING FIEDL CALIBRATION AND STANDARDIZATION):

Microtop calibrated at 97/100 ppm isobutylene

EC

pH

DO

Turb.

CO_2

HEALTH AND SAFETY LEVELS AND ACTIVITIES: Daily safety tailgate meeting completed

INJURIES: ACCIDENTS: NEAR MISSES:

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

FIELD CHANGES:

SPECIAL NOTES:

TOMORROW'S EXPECTATIONS:

BY: **TITLE:**

MWH
MONTGOMERY WATSON HARZA

DATE 8-20-02

DAY	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
			X				

Project Manager McLean

Project Northeast Cape

Job No. 1850574. 260120

Contract No. _____

Weather	BrightSun	Clear	Overcast	Rain	Snow
			X		
Temperature (°F)	Below 32	32 to 50	50 to 70	70 to 85	Above 85
Wind	Still	Moderate	High	Report No.	
		X			
Humidity	Dry	Moderate	Humid	09	
	X				

SUBCONTRACTORS ON SITE:

Discovery Drilling

EQUIPMENT ON SITE: CME 45 truck mounted
ATV (3), WQ meters
PID, SAT phone, Smp. Supplies

WORK PERFORMED (INCLUDING SAMPLING):

Sampled MW 88-6, 88-7, & 88-8
Completed soil sampling
SB 88-12, SB 88-13, SB 88-14, &
SB 88-15 & SB 88-16
Developed MW 88-9 & MW 88-10

PROJECT: Northeast Cape **REPORT NO.:** ~~No~~ 9

JOB NO.: 1850574. 260120 **DATE:** 8-20-02

QUALITY CONTROL ACTIVITIES (INCLUDING FIEDL CALIBRATION AND STANDARDIZATION):

yes Microtop calibrated at 97 / 100 Bgm ppm isobutylene

EC ~

pH 4,7,10

DO NA

Turb. NA

CO_2 NA

HEALTH AND SAFETY LEVELS AND ACTIVITIES: Yes Daily safety tailgate meeting completed

INJURIES:	ACCIDENTS:	NEAR MISSES:
0	0	0

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

Drill Rig Parts Being Welded in a.m., Delayed departure until ≈10.00 a.m

FIELD CHANGES:

SPECIAL NOTES:

Nay down - King Air to island

TOMORROW'S EXPECTATIONS:

Sample MW's 9 & 10

Complete Borings perhaps both deep Boreholes

BY: Douglas Pinn **TITLE:** F. Chemist

MWH
MONTGOMERY WATSON HARZA

DATE 8-21-02

DAY	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
				X			

Project Manager McLean

Project Northeast Cape

Job No. 1850574. 260120

Contract No. _____

Weather	BrightSun	Clear	Overcast	Rain	Snow
		X	X		
Temperature (°F)	Below 32	32 to 50	50 to 70	70 to 85	Above 85
Wind	Still	Moderate	High	Report No.	
			X		
Humidity	Dry	Moderate	Humid	10	
	X				

SUBCONTRACTORS ON SITE:

Discovery Drilling

EQUIPMENT ON SITE: CME 45 truck mounted
ATV (3), WQ meters
PID, SAT phone, Smp. Supplies

WORK PERFORMED (INCLUDING SAMPLING):

Collected water samples from MW88-9 & MW88-10
Completed BH's 88-17, 88-18

PROJECT: Northeast Cape **REPORT NO.:** 10

JOB NO.: 1850574. 260120 **DATE:** 8-2

QUALITY CONTROL ACTIVITIES (INCLUDING FIEDL CALIBRATION AND STANDARDIZATION):

100 Bgm

Yes Microtop calibrated at 97 ppm isobutylene

EC ✓

pH 4, 7, 10

DO NA

Turb. NA

CO_2 NA

HEALTH AND SAFETY LEVELS AND ACTIVITIES: Yes Daily safety tailgate meeting completed

INJURIES:	ACCIDENTS:	NEAR MISSES:
0	0	0

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

~~None~~ Sampled MW88-10 directly due to poor development paramaters very little water and extremely slow recovery. once pumped dry very slow.

FIELD CHANGES:

None

SPECIAL NOTES:

NAJ - Bering has limited planes due to nationwide grounding of NAJ's w/ a particular part. Delayed by weather (no report) and lack of planes available.

TOMORROW'S EXPECTATIONS:

Demob

BY: Douglas Quist **TITLE:** F. Chemist

MWH
MONTGOMERY WATSON HARZA

DATE 8-22-02

DAY	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
					X		

Project Manager McLean

Project Northeast Cape

Job No. 1850574. 260120

Contract No.

Weather	BrightSun	Clear	Overcast	Rain	Snow
		X			
Temperature (°F)	Below 32	32 to 50	50 to 70	70 to 85	Above 85
		X			
Wind	Still	Moderate	High	Report No.	
			X		
Humidity	Dry	Moderate	Humid	11	
	X				

SUBCONTRACTORS ON SITE:

Discovery Drilling

EQUIPMENT ON SITE: CME 45 truck mounted
ATV (3), WQ meters
PID, Sat phone, Smp. Supplies

WORK PERFORMED (INCLUDING SAMPLING):

Johanna returns to Anch. Am, Arrive NEC; Collected soil samples SB22-1 & SB22-2
Prepare Equipment for shipping on Sat
Return to Nome
Fly returns to Anch pm
Prepare equipment in Nome for cargo shipping

PROJECT: Northeast Cape **REPORT NO.:** 11

JOB NO.: 1850574. 260120 **DATE:** 8-22-02

QUALITY CONTROL ACTIVITIES (INCLUDING FIEDL CALIBRATION AND STANDARDIZATION):

Microtop calibrated at 97 / 100 Bgm ppm isobutylene

~~EC~~
~~pH~~
~~DO~~
~~Turb.~~
~~CO_2~~

HEALTH AND SAFETY LEVELS AND ACTIVITIES: Yes Daily safety tailgate meeting completed

INJURIES: 0 ACCIDENTS: 0 NEAR MISSES: 0

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

0

FIELD CHANGES:

0

SPECIAL NOTES:

Johanna Departed on a.M. flight
Bill Departed on p.m. flight

TOMORROW'S EXPECTATIONS:

Demob from Nome to ANC

BY: Douglas Quist **TITLE:** F. Chemist

MWH
MONTGOMERY WATSON HARZA

DATE 8-23-02

DAY	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
						X	

Project Manager McLean

Project Northeast Cape

Job No. 1850574. 260120

Contract No.

Weather	Bright Sun	Clear	Overcast	Rain	Snow
	X				
Temperature (°F)	Below 32	32 to 50	50 to 70	70 to 85	Above 85
		X			
Wind	Still	Moderate	High	Report No.	
		X		12	
Humidity	Dry	Moderate	Humid		
	X				

SUBCONTRACTORS ON SITE:

Discovery Drilling

EQUIPMENT ON SITE: CME 45 truck mounted
ATV (3), WQ meters
PID, SAT phone, Purge Supplies

WORK PERFORMED (INCLUDING SAMPLING):

Derrig returns to Anch

PROJECT: Northeast Cape **REPORT NO.:** 12

JOB NO.: 1850574. 260120 **DATE:** 8-23-02

QUALITY CONTROL ACTIVITIES (INCLUDING FIEDL CALIBRATION AND STANDARDIZATION):

Microtop calibrated at 97/100 ppm isobutylene

~~EC~~
~~pH~~
~~DO~~
~~Turb.~~
~~CO_2~~

HEALTH AND SAFETY LEVELS AND ACTIVITIES: Ø Daily safety tailgate meeting completed

INJURIES: Ø ACCIDENTS: Ø NEAR MISSES: Ø

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

Ø

FIELD CHANGES:

Ø

SPECIAL NOTES:

Depart on a.m. Flight w/ samples.

TOMORROW'S EXPECTATIONS:

Ship Samples on Sunday for Monday delivery

BY: Douglas Dunn **TITLE:** F. Chemist

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 183574.260120 | BORING NO.: 88-1 | SHEET 1 OF

PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: McLean

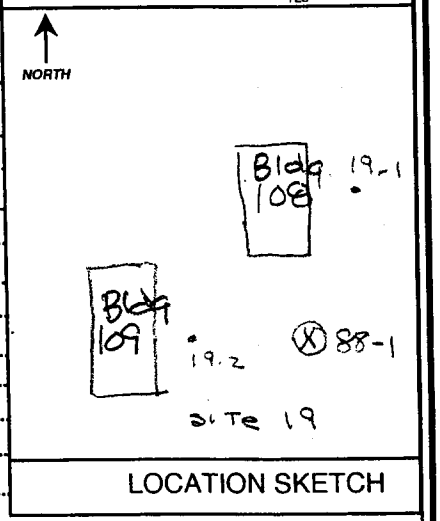
DATE: 8/14/02 | WEATHER: cloudy, rain | AK STATE PLANE COORDINATES: 96392.8914 (Northing) 98080.4492 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: Hollow stem | BORING SIZE: 8 1/4" | HAMMER DROP (IN/LBS): 30/360 | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

SAMPLES: 2 | SAMPLE TYPE: grab | SAMPLER TYPE/DIAMETER: 2½" SS | TOTAL DEPTH (FT): 22.5 | DEPTH TO SWL (FT): 20.0 | TOP OF HOLE ELEVATION: 82.29

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP		1430		Fill, fine & crushed rock PID
									(1)	88-1 (0-2.5) 1.0
1										Reddish brown
										Dry, NO odor, NO STAINING
2										
	11					SP		1445		88-1 (2.5-5.0) 1.0
3	9									No change fill material
	10								(1)	Sand & crushed rock
4	12									dry,
	12									No odor, No staining
5	6					GM		1452		moist Dark olive brown
	9	10	80	10	.25					sand with silt, angular rock
6	8								(2)	88-1 (5-7.5) PID 1.2
	10									NO odor, NO STAINING
7										
	46							1500		88-1 (7.5-10.0)
8	43									NO retrieval, lg Broken rock in
	35									sampler
9	15									NO odor
	7									
10	8							1500		88-1 (10-12.5) PID 180.0
	15									NO retrieval,
11	12								(3)	NO odor
	1									
12	17									Dry
	31							1515		88-1 (12.5-15.0)
13	36									NO retrieval, Pushed rock in front
	39									of sampler
14	33									
	31									Dry, NO odor, NO Staining
15						SP		1530		88-1 (15-17.5), grey brown, crushed rock
	72			1.5						
16	34								(4)	PID 204.0
	36					GM				Dry, Crushed rock with fines,
17	31									NO odor, NO STAINING LAB 02NE89SB01 MS/MSD
								1600		
18	29					GM				88-1 (18-20) no change PID 98.7
	27								(5)	
19	27									
										LAB 02NE89SB002
20	50							1605		88-1 (20-20.5) SAT
										NO recovery 20.0
21									(X)	

WELL COMPLETED? YES ☒ NO ☐



LOCATION SKETCH

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: | BORING NO.: 88-1 | SHEET 2 OF 2

PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: McLean

DATE: 8/14/02 | WEATHER: Cloudy, rain | AK STATE PLANE COORDINATES: (Northing) Seap.1 (Easting) | ELEVATION DATUM:

DRILLING METHOD: Hollowstem | BORING SIZE: 8 1/4" | HAMMER DROP (IN/LBS): 30/360 | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

# SAMPLES	SAMPLE TYPE	SAMPLER TYPE/DIAMETER	TOTAL DEPTH (FT)	DEPTH TO SWL (FT)	TOP OF HOLE ELEVATION

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE: % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE: TIME	INTERVAL	SOIL DESCRIPTION (ASTM 2488)
20										
1	20					GM				88-1 (20-22.5), gry brown sandy gravel
	17							1610		saturated,
2	28									
	27							(6)		Δ 22.5' PID 18.6
3										
4										
5										
6										
7										
8										
9										
30										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

WELL COMPLETED? [X] YES [ ] NO

NORTH

seep.

LOCATION SKETCH

WELL CONSTRUCTION LOG

MONTGOMERY WATSON

PROJECT NO.:	WELL NO.:	SHEET
1850574.260120	88-1	1 OF 1

PROJECT: Phase III RI | SITE: Northeast Cape, St.. Lawernce Island | CLIENT: USACE | GEOLOGIST: McLean

DATE: 8/14/02 | WEATHER: Cldy | LOCATION COORDINATES: 96392.8914 (Northing) 98080.4499 (Easting) | ELEVATION DATUM: MSL (MSL/Other)

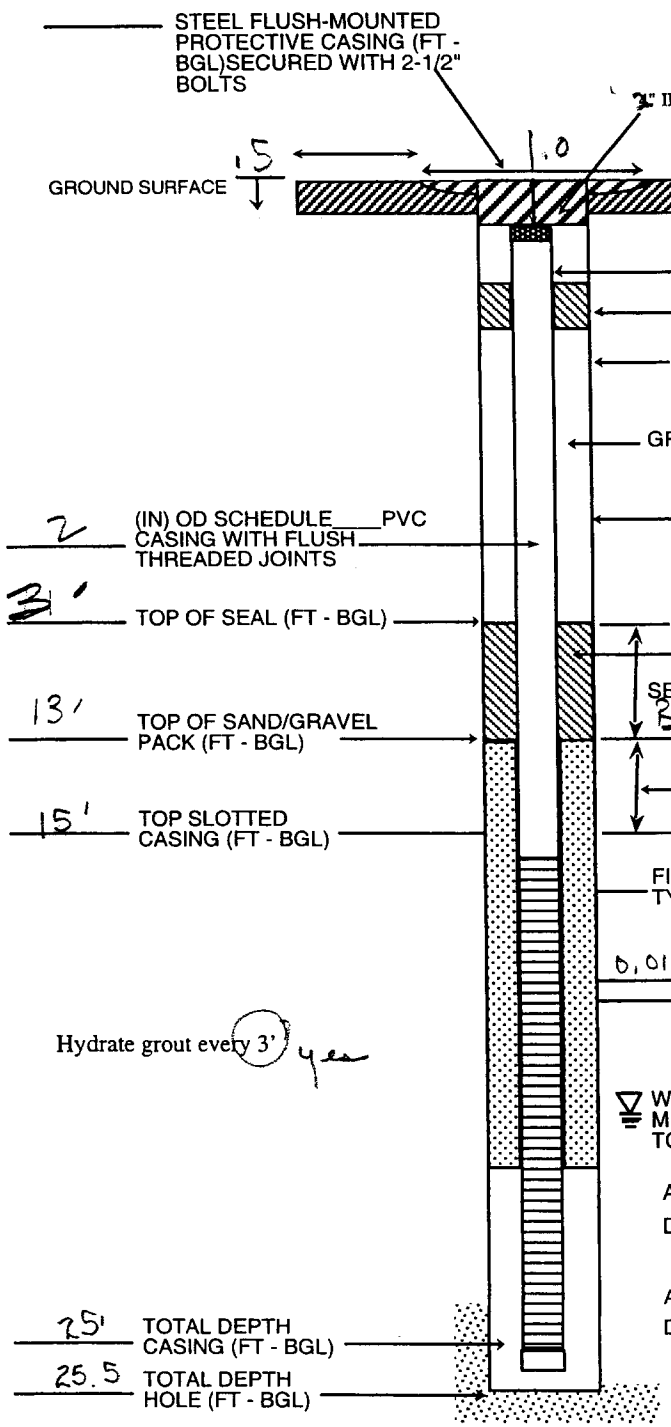
DRILLING METHOD: Hollow-Stem Auger | BORING SIZE: 8¼" | RIG TYPE: CME 45 | DRILLER/COMPANY: Discovery

SURVEYED ELEVATIONS | GROUND SURFACE: 82.29 | TOP OF PROTECTIVE CASING: 82.29 | TOP OF PVC CASING: 81.89

WELL SAMPLED? [X] YES [ ] NO

QUANTITY MATERIALS USED:

Bentonite(lbs)	5 140
Sand(lbs)	380
Grout(lbs)	
Screen(ft)	10'
Blank Casing(ft)	15'
Bottom Cap(ea)	1
Top Cap(ea)	1
Flush Mount	Yes
Protective Casing (ft)	
Lock	0911
MISC.:	



NOTES

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 18-85741.260120 | BORING NO.: 88-2 | SHEET 1 OF 1

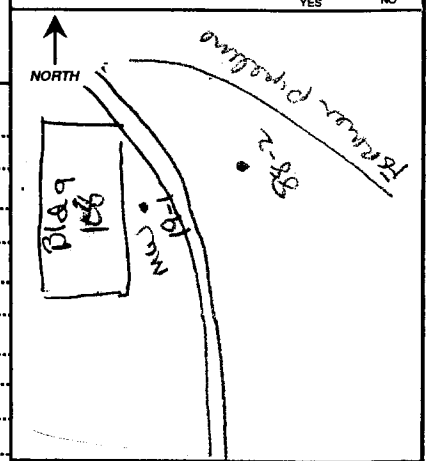
PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: McLean

DATE: 8/4/02 | WEATHER: Cldy, WINDY | AK STATE PLANE COORDINATES: 96455.0726 (Northing) 98257.8812 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: HSA | BORING SIZE: 8 1/4 | HAMMER DROP (IN/LBS): 30/360 | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

SAMPLES: 2 | SAMPLE TYPE: grab | SAMPLER TYPE/DIAMETER: 2½" SS | TOTAL DEPTH (FT): 19.0 | DEPTH TO SWL (FT): 14.5 | TOP OF HOLE ELEVATION: 71.18

WELL COMPLETED? ☒ YES ☐ NO



LOCATION SKETCH

DEPTH (FEET)	BLOWS (6 IN.)	% GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP		1620		Fill, crushed/broken rock w/ sandy fines PID 0
1										
2										
3	18									88-2 (2.5-5.0), Dark brown
	7	90	10			SM		1620		sand w fines PID = 19.0
4	6							(1)		
	6									NO ODOR, NO STAINING
5	5									
	5									
6	5					SM		1640		88-2 (5-7.5) NO ODOR PID = 29.8
	9							(2)		NO ODOR, NO STAINING
7										
8	6									88-2 (7.5-10.0) PID = 30.9
	9					SM		(3)		LAB 02 NE 88 SB 003
9	7							1645		
	6									NO ODOR NO STAINING
10										
	9							(4)		88-2 (10-12.5)
11	8									Rubble
	12							1700		~~NO~~ RECOVERY; ROCK IN SHOE
12	20									NO ODOR 10 PID 13.8
										LAB 02 NE 88 SB 004
13								1710		SATURATED TO RECOVER
										▽ 14.5
14										
15										
16										
17										
18										D.T. 19.0'
19										
20										
21										

MONTGOMERY WATSON

WELL CONSTRUCTION LOG

PROJECT NO.: 1850574.260120 | WELL NO.: MW 88-2 | SHEET 1 OF 1

PROJECT: Phase III RI | SITE: Northeast Cape, St.. Lawernce Island | CLIENT: USACE | GEOLOGIST: McLean

DATE: 8/14/02 | WEATHER: Cldy, Windy | LOCATION COORDINATES: 96455.0726 (Northing) 98257.4812 (Easting) | ELEVATION DATUM: MSL (MSL/Other)

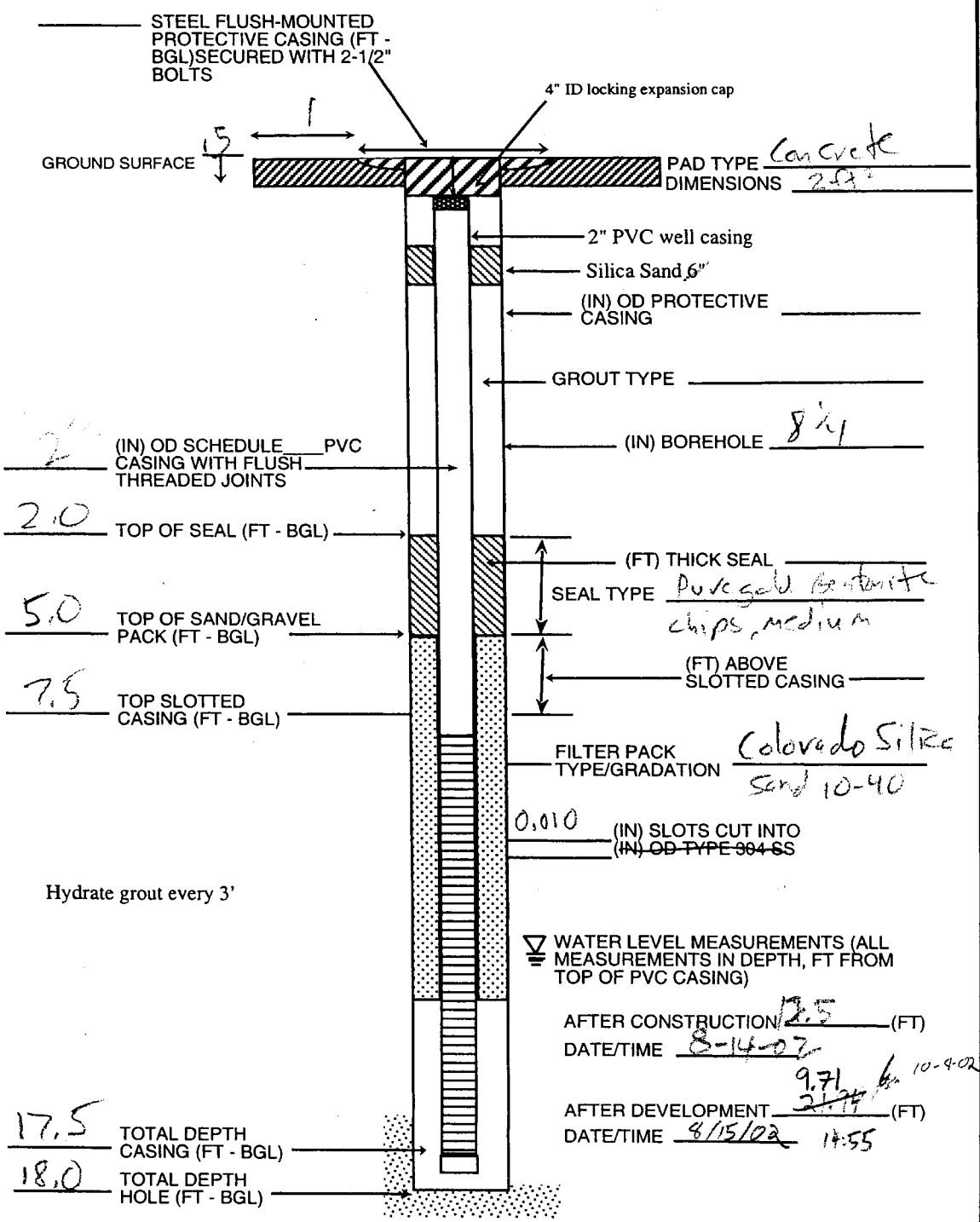
DRILLING METHOD: Hollow -Stem Auger | BORING SIZE: 8¼ | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

SURVEYED ELEVATIONS | GROUND SURFACE: ~~71.18~~ 71.14 | TOP OF PROTECTIVE CASING: 71.14 | TOP OF PVC CASING: 70.88

WELL SAMPLED? ☒ YES ☐ NO

QUANTITY MATERIALS USED:

Bentonite(lbs)	120
Sand(lbs)	320
Grout(lbs)	—
Screen(ft)	10
Blank Casing(ft)	8
Bottom Cap(ea)	1
Top Cap(ea)	1
Flush Mount	yes
Protective Casing (ft)	
Lock	1
MISC.:	



WATER LEVEL MEASUREMENTS (ALL MEASUREMENTS IN DEPTH, FT FROM TOP OF PVC CASING)

AFTER CONSTRUCTION 12.5 (FT)
DATE/TIME 8-14-02

AFTER DEVELOPMENT 9.71 (FT) 10-4-02
~~2.74~~
DATE/TIME 8/15/02 14:55

NOTES

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 185574 260130 | BORING NO.: SB-3 | SHEET 1 OF

PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST O'Connell ~~McLean~~

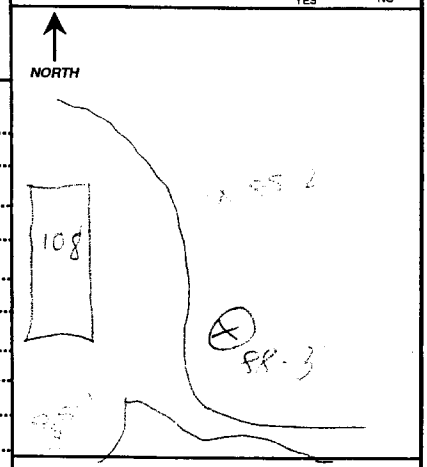
DATE 8/15/02 | WEATHER Cloudy, Windy ± 30kts | AK STATE PLANE COORDINATES 96458.3585 (Northing) 98169.9101 (Easting) | ELEVATION DATUM MSL

DRILLING METHOD Hollow Stem Auger | BORING SIZE 8 ¼" | HAMMER DROP (IN/LBS) 30/360 | RIG TYPE CME 75 | DRILLER/ COMPANY Discovery

SAMPLES 2 | SAMPLE TYPE Grab | SAMPLER TYPE/DIAMETER 2" SS | TOTAL DEPTH (FT) 20' | DEPTH TO SWL (FT) 15.5' | TOP OF HOLE ELEVATION 77.75

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP				Fill - Rocks & gravel
1										
2										
3										
4	5					SW		1155		No odor - greyish brown
5	5									angular gravel .5 - 1.5 inches
	6									gravel ± 30%
6	5									PID - 67.7
										~~LAB~~ 02NE88SB005
7										NI recovery
8	50							1203		No Recovery - Rock
9										PID = 42.4
10	50							1210		No Recovery - Rock
11										
12	21							1221		No Recovery - Rock
	15									PID = 44.8
13	12									Continued 8-17-02
	16									
14	9					SP		1110		Broken Drive line on Drill Rig shut down for the day
15	14									
	12									← Grey Sandy - Stons Broken Rock odor
16	10									Drilling resumed 8-17-02
	14									PID = 79.8
17	23					SP				Grey Sandy Slight odor
	21									Angular rocks ± 1-2"
	27					▽				Water on spoon not evident
18						=				
19										PID = 185.8
20										continue
21										Combined (4) & (5) for LAB Samples

WELL COMPLETED? YES ☒ NO ☐



LOCATION SKETCH

WELL CONSTRUCTION LOG

MONTGOMERY WATSON

PROJECT NO.:	WELL NO.:	SHEET
1850574.260120	88-3	1 OF 1

PROJECT: Phase III RI | SITE: Northeast Cape, St.. Lawernce Island | CLIENT: USACE | GEOLOGIST: O'Connell ~~McLean~~

DATE: E 8/17/02 | WEATHER: Cloudy | LOCATION COORDINATES: 96459.3585 (Northing) 98169.9401 (Easting) | ELEVATION DATUM: MSL (MSL/Other)

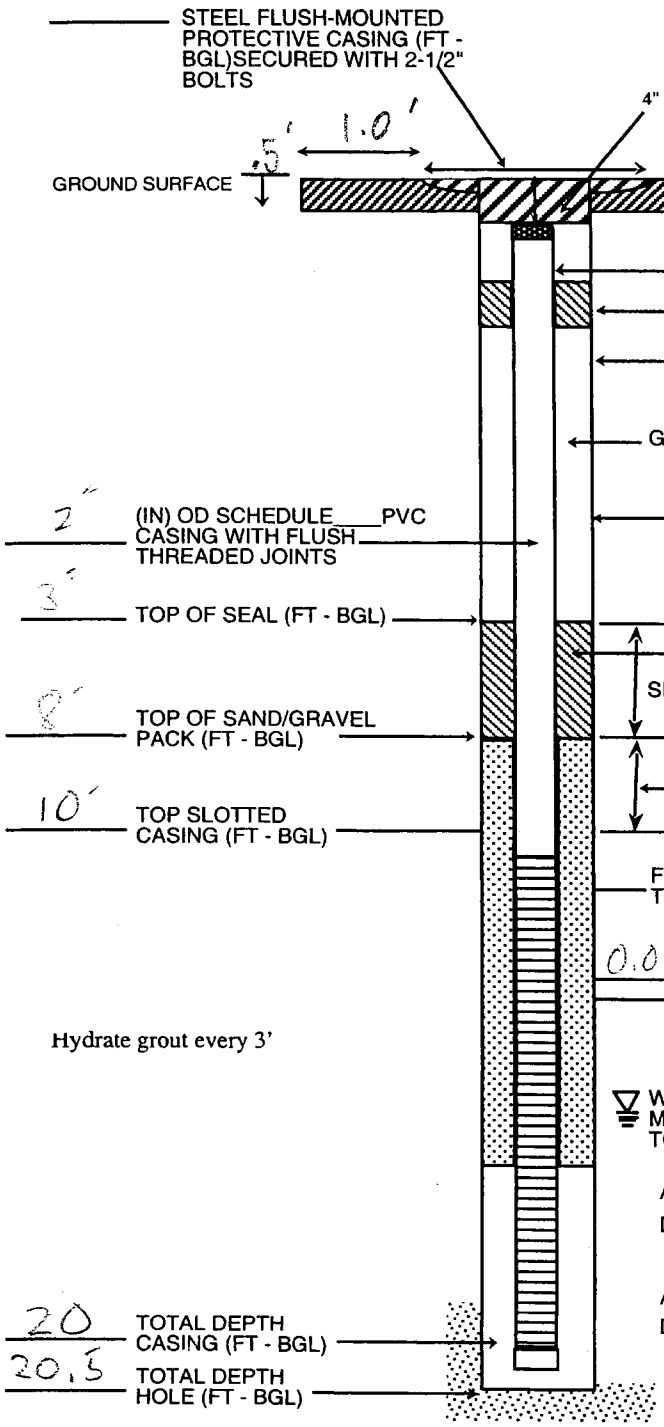
DRILLING METHOD: Hollow -Stem Auger | BORING SIZE: 8 1/4 | RIG TYPE: CME 45 | DRILLER/COMPANY: Discovery

SURVEYED ELEVATIONS: GROUND SURFACE 77.75 | TOP OF PROTECTIVE CASING 77.75 | TOP OF PVC CASING 77.35

WELL SAMPLED? ☒ YES ☐ NO

QUANTITY MATERIALS USED:

Bentonite(lbs)	150
Sand(lbs)	330
Grout(lbs)	-
Screen(ft)	10
Blank Casing(ft)	10
Bottom Cap(ea)	1
Top Cap(ea)	1
Flush Mount	1
Protective Casing (ft)	
Lock	1
MISC.:	



▽ WATER LEVEL MEASUREMENTS (ALL MEASUREMENTS IN DEPTH, FT FROM TOP OF PVC CASING)

AFTER CONSTRUCTION 17.5 (FT)
DATE/TIME 8/17/02

AFTER DEVELOPMENT 15.12 (FT)
DATE/TIME 8/19/02 10:50

NOTES

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 185079 260120 | BORING NO.: 88-5 | SHEET 1 OF 2

PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST McLean OConnell

DATE 8/19/02 | WEATHER Clay WINDY | AK STATE PLANE COORDINATES 96216.7210 (Northing) 98792.1088 (Easting) | ELEVATION DATUM MSL

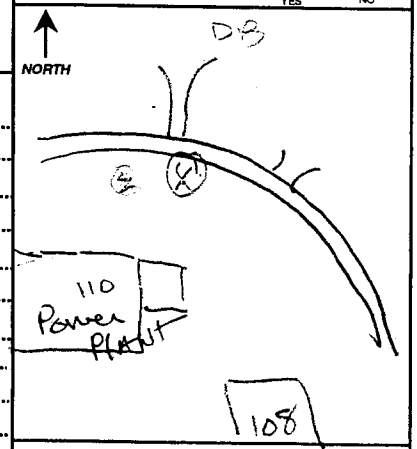
DRILLING METHOD HSA | BORING SIZE 8 1/4" | HAMMER DROP (IN/LBS) 307300 | RIG TYPE CME45 | DRILLER/ COMPANY Discovery

SAMPLES 2 | SAMPLE TYPE Grab | SAMPLER TYPE/DIAMETER 2'55 | TOTAL DEPTH (FT) 16.5' | DEPTH TO SWL (fT) 11.0' | TOP OF HOLE ELEVATION 68.37

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
21	10 4					SP		2000		Brown sandy with crushed rock
22	5 6									No odor
23										02NE885B009 0' D=
24										No Recovery Sent in Soil Cup
25	5 11					PT		2015		Organic Peat some Sand
26	6									Strong odor PT D=
27	5 4					PT		2030		Very Dense
28	6 5									Organic Peat grading to grey sand at 8 ft
29	9 6					SW		2045		Fine sand
30	6 5									Odor in Peat, Not in Sand PT D=
31	7 11					▽		2050		Greenish grey, faint odor Fine Sand SW D=
32	9 8					SW				Dark grey coarse sand, wet - no odor 02NE885B010 Water @ 11 ft
33	10									
34										
35										
36										Bottom of Well
37										Df 16
38										
39										
40										
41										
42										

02NE885B009 1.0-3.0
02NE885B010 11.0-13.0

WELL COMPLETED? YES ☒ NO ☐



LOCATION SKETCH

MONTGOMERY WATSON

WELL CONSTRUCTION LOG

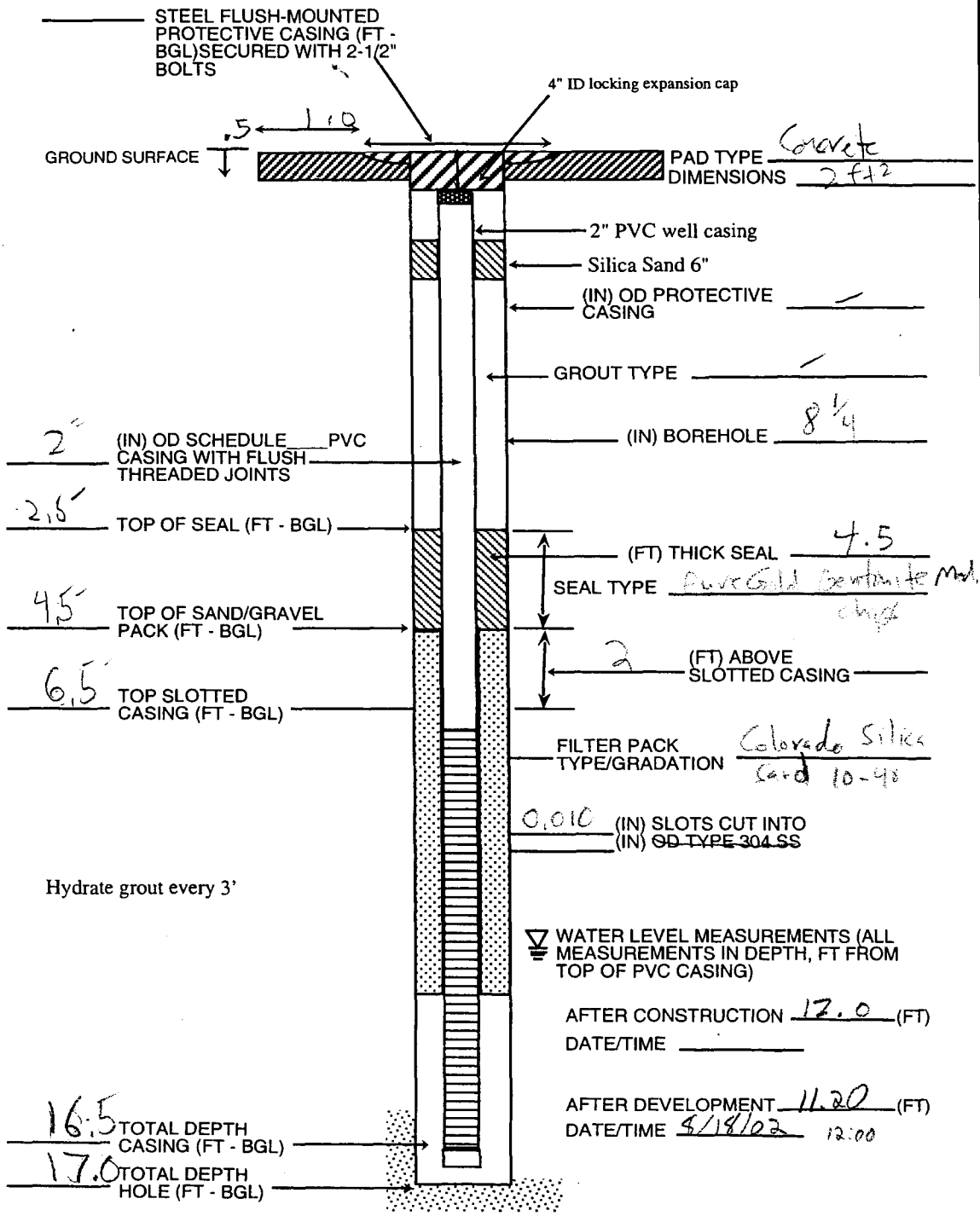
PROJECT NO.: 1850574.260120 | WELL NO.: 88-4 | SHEET 1 OF 1

PROJECT: Phase III RI | SITE: Northeast Cape, St.. Lawernce Island | CLIENT: USACE | GEOLOGIST: O'Connell McLean

DATE: 8/14/02 | WEATHER: Partly cloudy | LOCATION COORDINATES: 96331.1320 (Northing) 98365.8078 (Easting) | ELEVATION DATUM: MSL (MSL/Other)

DRILLING METHOD: Hollow -Stem Auger | BORING SIZE: 8-1/4 | RIG TYPE: HSA | DRILLER/COMPANY: Discovery

SURVEYED ELEVATIONS | GROUND SURFACE: 68.63 | TOP OF PROTECTIVE CASING: 68.63 | TOP OF PVC CASING: 68.23



WELL SAMPLED? ☒ YES ☐ NO

QUANTITY MATERIALS USED:

Bentonite(lbs)	100
Sand(lbs)	450
Grout(lbs)	–
Screen(ft)	10
Blank Casing(ft)	7
Bottom Cap(ea)	1
Top Cap(ea)	1
Flush Mount	
Protective Casing (ft)	
Lock	1
MISC.:	

NOTES

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 18054 260120 | BORING NO.: 88-4 | SHEET 1 OF

PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: O'Connell ~~McLean~~

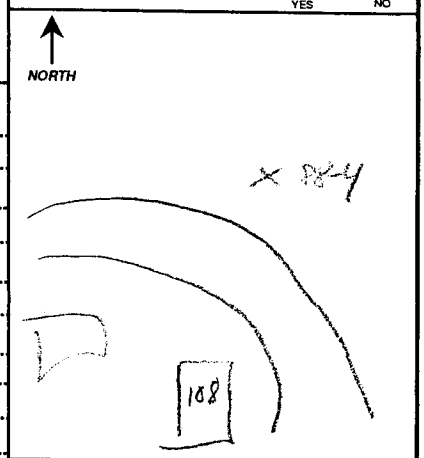
DATE: 8/ /02 | WEATHER: Pt. clldy | AK STATE PLANE COORDINATES: 96331.1320 (Northing) 98365.8078 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: HSA | BORING SIZE: 8¼ | HAMMER DROP (IN/LBS): 30/366 | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

SAMPLES: 2 | SAMPLE TYPE: grab | SAMPLER TYPE/DIAMETER: 2" SS | TOTAL DEPTH (FT): 17' | DEPTH TO SWL (FT): 15.5 | TOP OF HOLE ELEVATION: 18.63

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP				Fill - Rocks ≤ 6"-10" gravel
1										
2										
3	4					SP		1300		- Brown Moist Slight odor
(1) 4	8									Angular Rocks ≤ 1"
	12									Some Sand ≈ 20% Fine gravel
5	6									PID = 236
6										
7	4					PT		1315		Dark brown Native Soil ? organic material - Peat
(2) 8	6									some Sand < 10% Slight odor PID = 248
	3									
9	4									
	6					PT		1320		Dark Brown Organic Matter Peat on top to
(3) 10	9									Sandy grey with strong odor & rocks fragments ≤ 1"
	10									towards ↓ 10-11' bgs PID = 284
11	9									
	12					SM		1330		grey Sandy Soil, Slight odor
(4) 12	12									Rocks ≤ 1" No organic Matter
	12									Sand ≈ 75% PID = 440
13	14					▽				Wet at 13' bgs
	15					=		1340		Wet Sands - strong odor
(5) 14	12					SM				Rocks ≤ 1" Angular to subangular
	19									Grey increasing Sand ≈ 75% PID = 424
15	15									Dry Sands at 15' strong odor
16										
17										Auger Refusal Bottom of Hole
18										TD 17' 02NE88S808 = ± 3 1320 9-11.0
										02NE88S808 = ± 4 1330 11-13.0
19										
20										
21										

WELL COMPLETED? ☒ YES ☐ NO



LOCATION SKETCH

MONTGOMERY WATSON

WELL CONSTRUCTION LOG

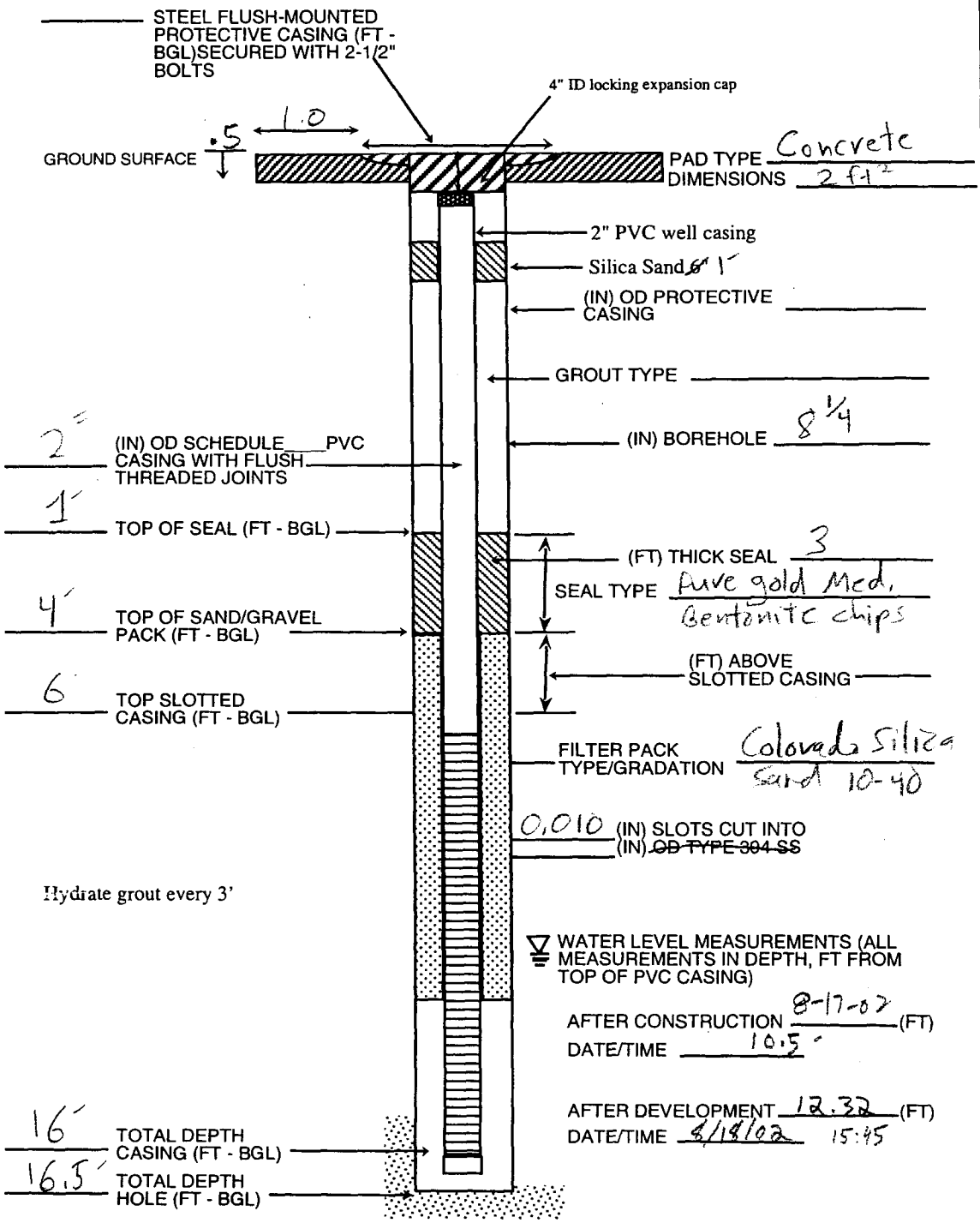
PROJECT NO.:	WELL NO.:	SHEET
1850574.260120	88-5	1 OF 1

PROJECT: Phase III RI | SITE: Northeast Cape, St.. Lawernce Island | CLIENT: USACE | GEOLOGIST: ~~McLean~~ O'Connell

DATE: 8/17/02 | WEATHER: clouds, Rain Wind | LOCATION COORDINATES: 96216.7210 (Northing) 98892.1088 (Easting) | ELEVATION DATUM: MSL (MSL/Other)

DRILLING METHOD: Hollow -Stem Auger | BORING SIZE: 8 1/4 | RIG TYPE: HSA | DRILLER/ COMPANY: Discovery

SURVEYED ELEVATIONS | GROUND SURFACE: 68.37 | TOP OF PROTECTIVE CASING: 68.37 | TOP OF PVC CASING: 67.87



WELL SAMPLED? [X] YES [ ] NO

QUANTITY MATERIALS USED:

Bentonite(lbs)	100
Sand(lbs)	300
Grout(lbs)	—
Screen(ft)	10
Blank Casing(ft)	6
Bottom Cap(ea)	1
Top Cap(ea)	1
Flush Mount	yes
Protective Casing (ft)	0
Lock	1
MISC.:	

NOTES

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 185054 / 260120 | BORING NO.: MW88-6 | SHEET 1 OF

PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: OConnell / ~~McLean~~

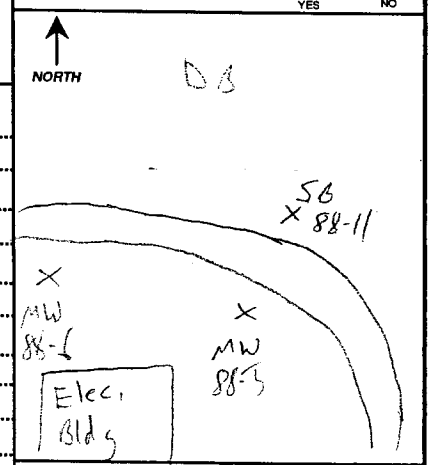
DATE: 8/18/02 | WEATHER: Partly cldy | AK STATE PLANE COORDINATES: 96140.1497 (Northing) 98271.8042 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: HSA | BORING SIZE: 8 1/4 | HAMMER DROP (IN/LBS): 30-360 | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

SAMPLES | SAMPLE TYPE: Grab | SAMPLER TYPE/DIAMETER: 2" SS | TOTAL DEPTH (FT): 15.5 | DEPTH TO SWL (FT): 10.85 | TOP OF HOLE ELEVATION: 19.13

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE: % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE: TIME	INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP				Fill - Rocky angular 3"-5"
1										
2										
3	4					SM		1130		No odor PID 1.25
	4									Greyish brown
4	5									Silt with fine sand
5	4									
	16							1140		- Geotech Sample 4-6' PID 90.8
6	7									LAB# 02NE88SB41
	6					SM				No odor - Greyish brown
7	4									Silt with fine sand
	3							1145		- Strong odor PID 165 02NE88SB11
8	3					SP				Sands & gravels unconsolidated
	5									
9	8					SM		1150		Moist, Dense silt & fine sand PID 58.5
10	9									Grey No odor
	8									
11	7									
	11							1155		Sand & gravel, greyish brown, moist, unconsolidated PID 111
12	11					SP				strong odor 02NE88SB12
	11									
13	7									H_2O = 10.85 8-18-02 @ 1420
14										
15										bottom DT 15.5
16										
17										
18										
19										
20										
21										

WELL COMPLETED? ☒ YES ☐ NO



LOCATION SKETCH

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 10505 260129 | BORING NO.: MW88-7 | SHEET 1 OF 1

PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawrence Is | CLIENT: USACE - Alaska | GEOLOGIST: O'Connell ~~McLean~~

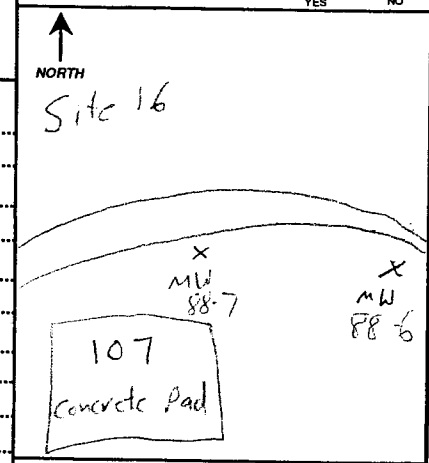
DATE: 8/18/02 | WEATHER: Partly Cloudy | AK STATE PLANE COORDINATES: 96033.1581 (Northing) 98271.2457 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: HSA | BORING SIZE: 8 1/4 | HAMMER DROP (IN/LBS): 30/360 | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

SAMPLES: 2 | SAMPLE TYPE: Grab | SAMPLER TYPE/DIAMETER: 2'SS | TOTAL DEPTH (FT): 19.5 | DEPTH TO SWL (FT): 14.5' | TOP OF HOLE ELEVATION: 72.83

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP				Fill - crushed Rock + Sand
1										
2										
3 (1)	19					SP		1320		Crushed Rock + Sand
	52									No odor, Dry
4	X									PID = 600
	X									
5 (2)	8					SW		1330		Brown Sand No odor
	6									
6	9									PID = 332
	13									
7	19					SP		1335		odor, crushed Rock + Sand, Brown-Grey
	17									
8	10									PID = 695 ORNEX-BUTYL
	9									
9	9					SP		1342		Grey - Crushed Rock + Sand
10 (4)	11									odor
	11									PID = 40
	10									
11	9					SP		1350		Grey Sand + Gravel
12 (5)	6									odor
	5									PID = 627
	14									ORNEX-BUTYL
13	7					SM		1355		Moist Grey Sand + Silt
14 (6)	5									odor
	6									PID = 477
	7									
15										
16										
17										
18										
19										Bottom 19.0'
20										
21										

WELL COMPLETED? YES ☒ NO ☐



LOCATION SKETCH

MONTGOMERY WATSON

WELL CONSTRUCTION LOG

PROJECT NO.: 1850574.260120

WELL NO.: 88-6

SHEET 1 OF 1

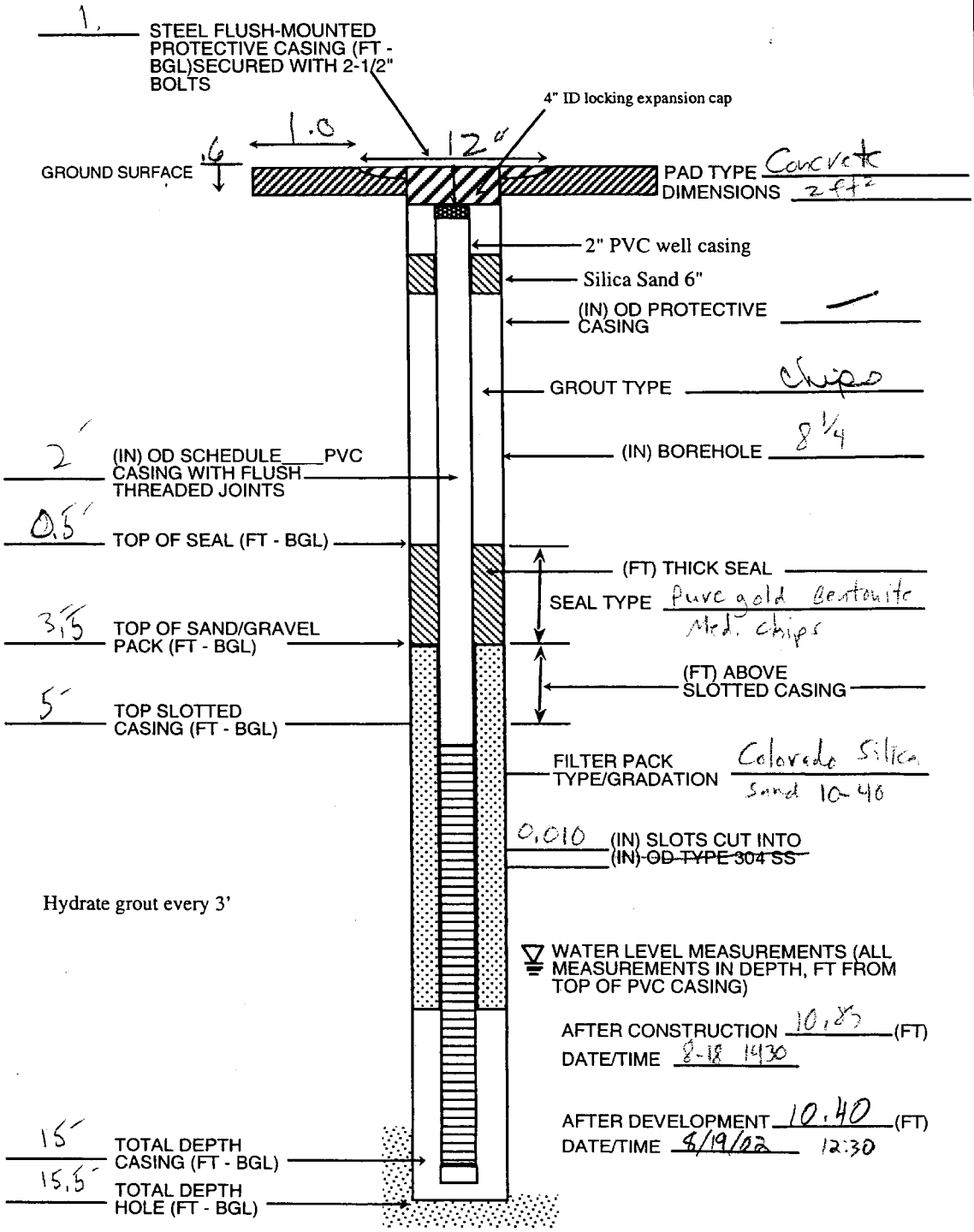
PROJECT: Phase III RI | SITE: Northeast Cape, St.. Lawernce Island | CLIENT: USACE | GEOLOGIST: ~~McLean~~ O'Connell

DATE: 8/18/02 | WEATHER: Partly Cloudy | LOCATION COORDINATES: 96190.1494 (Northing) 98271.9042 (Easting) | ELEVATION DATUM: MSL (MSL/Other)

DRILLING METHOD: Hollow -Stem Auger | BORING SIZE: | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

SURVEYED ELEVATIONS | GROUND SURFACE: 69.13 | TOP OF PROTECTIVE CASING: 69.13 | TOP OF PVC CASING: 68.83

WELL SAMPLED? ☒ YES ☐ NO



QUANTITY MATERIALS USED:

Bentonite(lbs)	100
Sand(lbs)	350
Grout(lbs)	—
Screen(ft)	10
Blank Casing(ft)	5.0
Bottom Cap(ea)	1
Top Cap(ea)	1
Flush Mount	1
Protective Casing (ft)	1
Lock	1
MISC.:	

NOTES

WELL CONSTRUCTION LOG

MONTGOMERY WATSON

PROJECT NO.:	WELL NO.:	SHEET
1850574.260120	88-7	1 OF 1

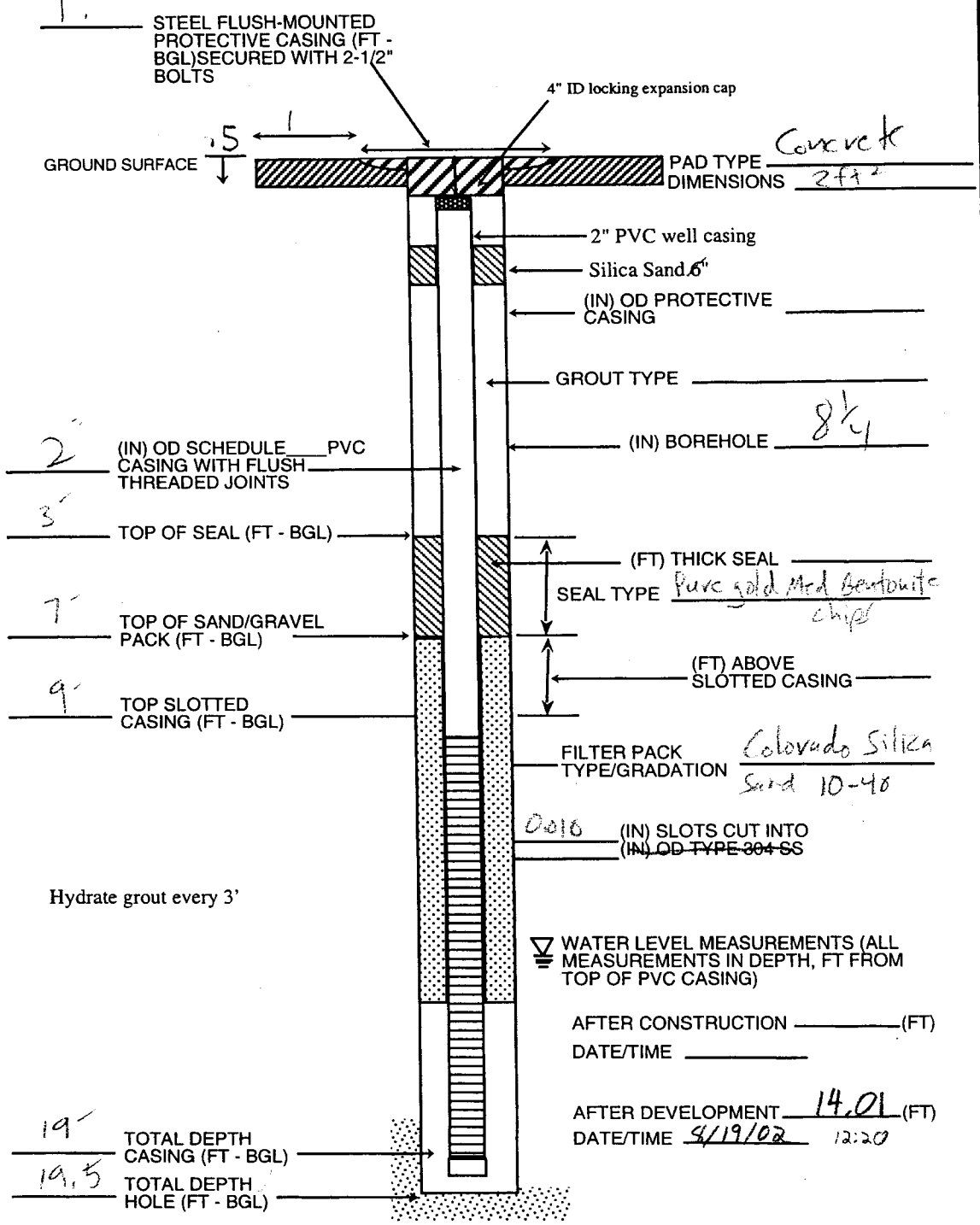
PROJECT: Phase III RI | SITE: Northeast Cape, St.. Lawernce Island | CLIENT: USACE | GEOLOGIST: ~~Melbean~~ O'Connell

DATE: 8/18/02 | WEATHER: Partly cloudy | LOCATION COORDINATES: 96033.1581 (Northing) 98271.2457 (Easting) | ELEVATION DATUM: MSL (MSL/Other)

DRILLING METHOD: Hollow -Stem Auger | BORING SIZE: 8 1/4 | RIG TYPE: HSA | DRILLER/ COMPANY: Discovery

SURVEYED ELEVATIONS | GROUND SURFACE: 72.83 | TOP OF PROTECTIVE CASING: 72.83 | TOP OF PVC CASING: 72.33

WELL SAMPLED? [X] YES [ ] NO



WATER LEVEL MEASUREMENTS (ALL MEASUREMENTS IN DEPTH, FT FROM TOP OF PVC CASING)

AFTER CONSTRUCTION _____ (FT)

DATE/TIME _____

AFTER DEVELOPMENT 14.01 (FT)

DATE/TIME 8/19/02 12:20

QUANTITY MATERIALS USED:

Bentonite(lbs)	160
Sand(lbs)	400
Grout(lbs)	—
Screen(ft)	10
Blank Casing(ft)	9
Bottom Cap(ea)	1
Top Cap(ea)	1
Flush Mount	1
Protective Casing (ft)	
Lock	1
MISC.:	

NOTES

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 185057.4.20120 | BORING NO.: 88-8 | SHEET 1 OF 1

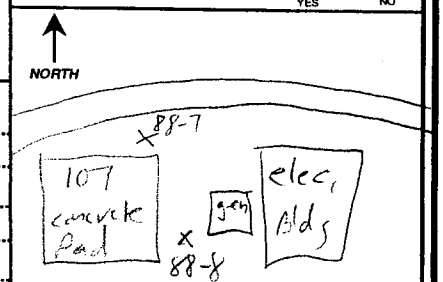
PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: QCarrel ~~McLean~~

DATE: 8/18/02 | WEATHER: Partly Cloudy | AK STATE PLANE COORDINATES: 96083.4879 (Northing) 98185.9420 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: HSA | BORING SIZE: 8 1/4 | HAMMER DROP (IN/LBS): 30/368 | RIG TYPE: CME45 | DRILLER/ COMPANY: Discovery

SAMPLES | SAMPLE TYPE: GRAB | SAMPLER TYPE/DIAMETER: 2" HSA | TOTAL DEPTH (FT): 20.5' | DEPTH TO SWL (FT): 15.5' | TOP OF HOLE ELEVATION: 13.76

WELL COMPLETED? YES ☒ NO ☐



LOCATION SKETCH

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP		1620		Fill Crushed Rock Angular 3"-½"
1										
2										
3										
4	17					SP		1640		No odor, crushed Rock fill + Sand
(1) 5	15									unconsolidated PID=
	20									
	22									
6	22					SP		1648		odor - Crushed Rock PID=
(2) 7	37									unconsolidated
	19									
	11									
8	19					SP		1653		odor, Dark Staining in Crushed rock + Sand, grey
(3) 9	21									unconsolidated
	14									PID=
	12									
10	12					SP		1700		odor, Crushed rock + sand grey, unconsolidated
(4) 11	11									
	13									02NE88SB011 PID= 1,248*
	9									
12	12					SP		1712		Strong odor, Crushed rock + Sand, unconsolidated
(5) 13	10									
	11									PID=
	9									
14	10					SM		1718		Grey Sand Wet, Strong odor
(6) 15	9									
	8					▽				02NE88SB016 MS/MSD PID= >10,000*
	8									
16										
17										* PID Cal w/ memory
18										
19										
20										bottom DT 20.0
21										

WELL CONSTRUCTION LOG

MONTGOMERY WATSON

PROJECT NO.:	WELL NO.:	SHEET
1850574.260120	88-8	1 OF 1

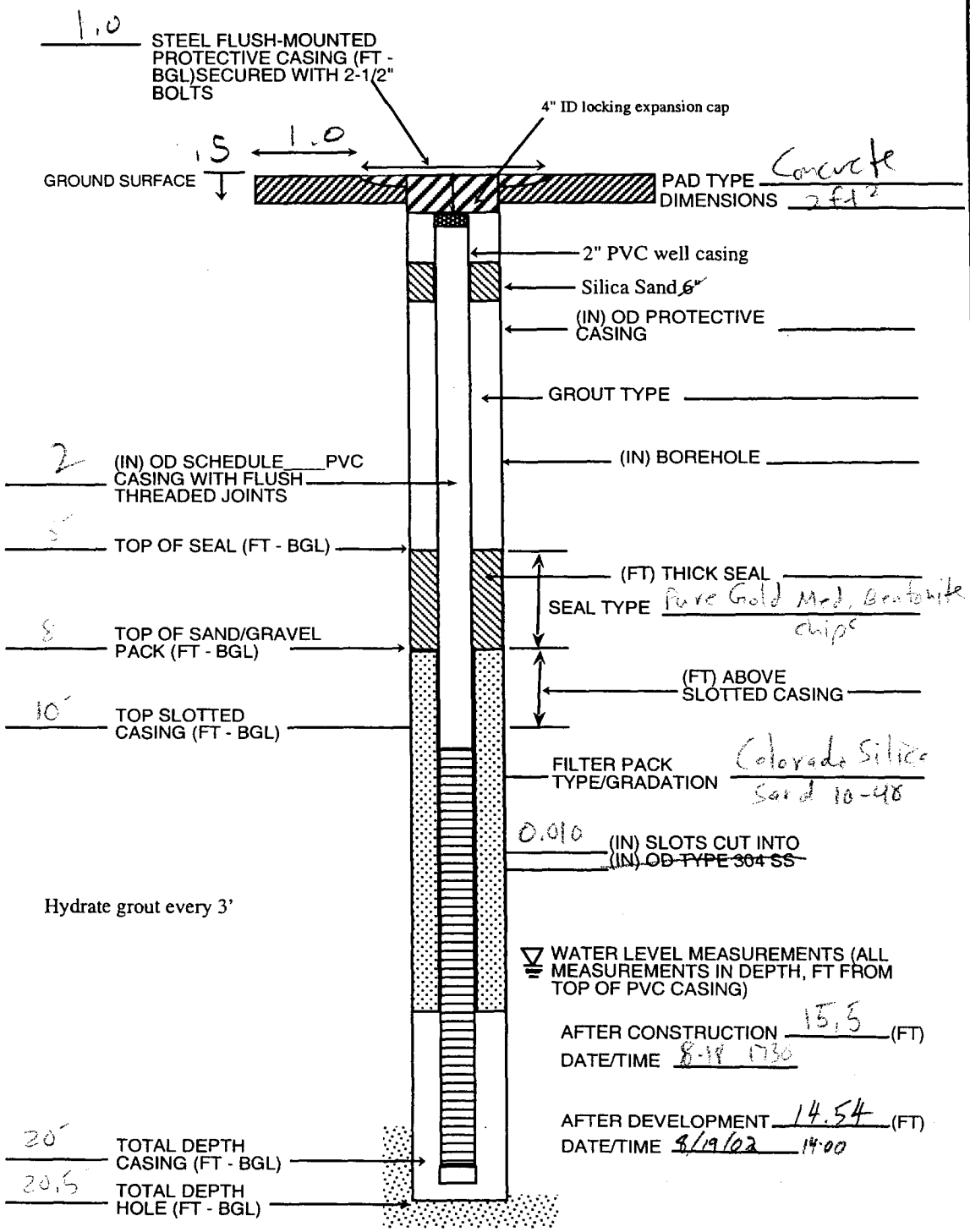
PROJECT: Phase III RI | SITE: Northeast Cape, St.. Lawernce Island | CLIENT: USACE | GEOLOGIST: ~~McLean~~ OConnell

DATE: 8/19/02 | WEATHER: Partly cloudy | LOCATION COORDINATES: 96083.4849 (Northing) 98185.9420 (Easting) | ELEVATION DATUM: MSL (MSL/Other)

DRILLING METHOD: Hollow -Stem Auger | BORING SIZE: 8 1/4 | RIG TYPE: HSA | DRILLER/COMPANY: Discovery

SURVEYED ELEVATIONS | GROUND SURFACE: 73.76 | TOP OF PROTECTIVE CASING: 73.76 | TOP OF PVC CASING: 73.46

WELL SAMPLED? [X] YES [ ] NO



QUANTITY MATERIALS USED:

Bentonite(lbs)	160
Sand(lbs)	400
Grout(lbs)	—
Screen(ft)	10
Blank Casing(ft)	10
Bottom Cap(ea)	1
Top Cap (ea)	1
Flush Mount	1
Protective Casing (ft)	1
Lock	1
MISC.:	

NOTES

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: | BORING NO.: 88-9 | SHEET 1 OF 2

PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST ~~McLean~~ O'Connell

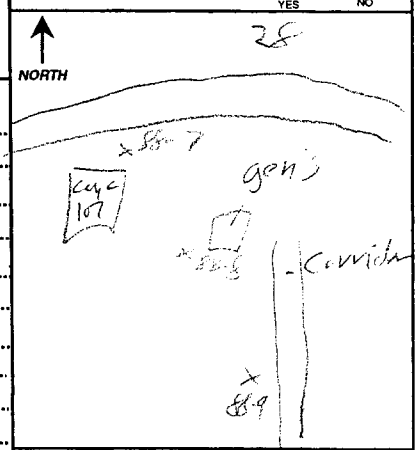
DATE 8/19/02 | WEATHER cloudy | AK STATE PLANE COORDINATES 96154.1887 (Northing) 98044.5023 (Easting) | ELEVATION DATUM MSL

DRILLING METHOD HSA | BORING SIZE 8 1/4 | HAMMER DROP (IN/LBS) 30/360 | RIG TYPE CME 45 | DRILLER/COMPANY Discovery

SAMPLES | SAMPLE TYPE Grab | SAMPLER TYPE/DIAMETER 2'SS | TOTAL DEPTH (FT) 25' | DEPTH TO SWL (FT) 20.0 | TOP OF HOLE ELEVATION 81.79

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
1						SP				Fill - Gravelly Soil, Crushed Rock Angular 1"-5" d.
2										
3										
4	27					SP		1255		Dry, Crushed Rock, No odor/Staining
(1) 5	22									
	29									PID=
6	30									
	24					SP		1305		Crushed Rock, Dry, No odor/Staining
(2) 7	24									
	17									PID=
8	11									
	17					SP		1310		Crushed Rock + Sand No odor/stain
(3) 9	14									O2NE88SB017 MS/MSD PID= 2876*
	10									
10	8									
	7					SP		1315		Crushed Rock + Sand No odor/Stain
(4) 11	4									PID=
	5									
12	7									-Geotech @ 11-13 O2NE88SB042
	16							1325		
13	36									No Recovery 12-14 - Rock in Cap
	19									
14	12									
	12							1330		
15	8									No Recovery, No odor/Stain
	6									Rock in Cap
16	8									
	5					SP		1340		- Moist slough on top of Dry crushed rock
17	16									-No recovery Thin frosted Layer? thawed?
	14									
18	13									
	11					SP		1350		Crushed Rock + Sand No odor/Stain
(5) 19	10									PID=
	9									
20	7					▽				
(6)	7							1355		- Moist Sand + Crushed rock
21	17									
	14									O2NE88SB018 PID=
22	18									
										Continued Next Page

WELL COMPLETED? ☒ YES ☐ NO



LOCATION SKETCH

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: ~~20574-420-26012~~ | BORING NO.: 88-9 | SHEET 2 OF 2

PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is. | CLIENT USACE - Alaska | GEOLOGIST ~~McLean~~ Carroll

DATE 8/19/02 | WEATHER See pg. 1 | AK STATE PLANE COORDINATES (Northing) (Easting) | ELEVATION DATUM

DRILLING METHOD | BORING SIZE | HAMMER DROP (IN/LBS) | RIG TYPE | DRILLER/ COMPANY Discovery

SAMPLES | SAMPLE TYPE | SAMPLER TYPE/DIAMETER | TOTAL DEPTH (FT) | DEPTH TO SWL (ft) | TOP OF HOLE ELEVATION

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
~~21~~ 21								1415		88-9 Continued
~~22~~ 24										
~~23~~ 25									X	Bottom @ 25'
~~24~~ 26										DT 25'
~~25~~ 27										
~~26~~ 28										
~~27~~ 29										
~~28~~ 30										
29 31										
30 32										
31 33										
32 34										
33 35										
34 36										
35 37										
36 38										
37 39										
38 40										
39 41										
40 42										
41										
42										

WELL COMPLETED? [X] YES [ ] NO

NORTH

See pg. 1

LOCATION SKETCH

MONTGOMERY WATSON

WELL CONSTRUCTION LOG

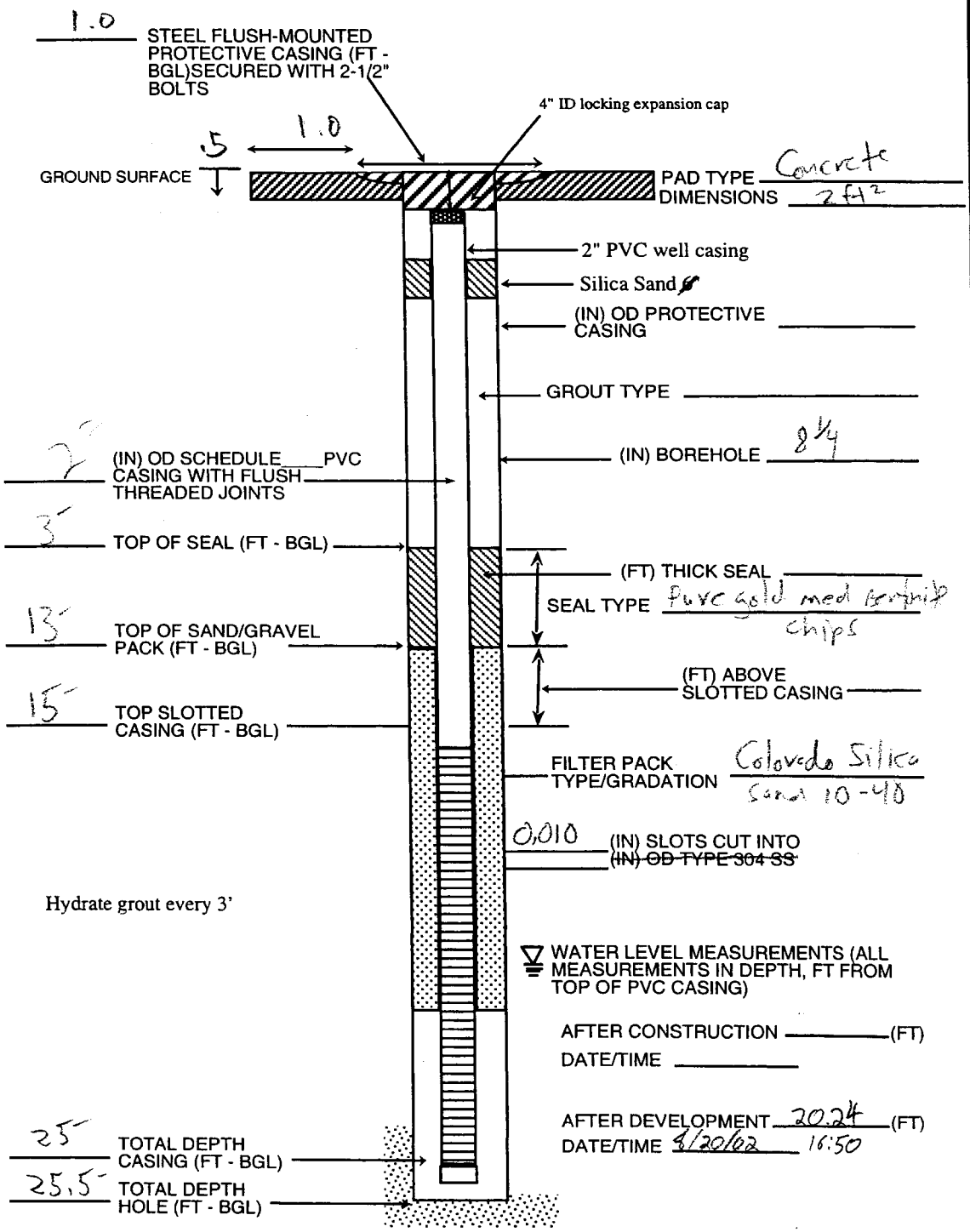
PROJECT NO.:	WELL NO.:	SHEET
1850574.260120	88-9	1 OF 1

PROJECT: Phase III RI | SITE: Northeast Cape, St.. Lawernce Island | CLIENT: USACE | GEOLOGIST: ~~McLean~~ 06mc11

DATE: 8/19/02 | WEATHER: Cloudy | LOCATION COORDINATES: 96154.1887 (Northing) 98044.5023 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: Hollow -Stem Auger | BORING SIZE: 8 1/4 | RIG TYPE: HSA | DRILLER/ COMPANY: Discovery | (MSL/Other)

SURVEYED ELEVATIONS | GROUND SURFACE: 41.79 | TOP OF PROTECTIVE CASING: 41.79 | TOP OF PVC CASING: 80.99



WELL SAMPLED? ☒ YES ☐ NO

QUANTITY MATERIALS USED:

Bentonite(lbs)	250
Sand(lbs)	450
Grout(lbs)	—
Screen(ft)	10
Blank Casing(ft)	15
Bottom Cap(ea)	1
Top Cap(ea)	1
Flush Mount	1
Protective Casing (ft)	
Lock	1
MISC.:	

NOTES

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 180574.260120 | BORING NO.: 88-10 | SHEET 2 OF 2

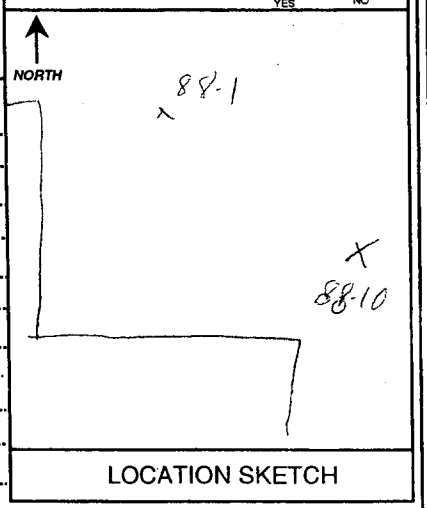
PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST ~~Nelson~~ O'Connell

DATE 8/19/02 | WEATHER Cloudy | AK STATE PLANE COORDINATES 96293.0099 (Northing) 97970.2989 (Easting) | ELEVATION DATUM MSL

DRILLING METHOD HSA | BORING SIZE 9 1/4 | HAMMER DROP (IN/LBS) 30/360 | RIG TYPE CME 45 | DRILLER/ COMPANY Discovery

SAMPLES | SAMPLE TYPE Grab | SAMPLER TYPE/DIAMETER 2"SS | TOTAL DEPTH (FT) 27.5 | DEPTH TO SWL (fT) 25.0 | TOP OF HOLE ELEVATION ~~86~~.86

WELL COMPLETED? ☑ YES ☐ NO



LOCATION SKETCH

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
1						SP		1535		Fill Rock & Gravel
2										
3										
4	19					SP		1550		Crushed Rock & Sand, No odor/stain
(1) 5	17									Gresish Brown
	12									PID=
6	14									
(2) 7	18					SP		1600		Crushed Rock & Sand, No odor/stain
	17									Gresish Brown
8	16									PID=
(3) 9	16					SP		1610		Crushed Rock & Sand, No odor/stain
	12									Gresish Brown
10	12									PID=
(4) 11	11					SP		1615		Crushed Rock & Sand No odor/stain
	11									Gresish Brown
12	8									PID=
(5) 13	9					SM		1620		Moist Fine Sand with some iron staining, No odor/
	6									loose @ 12', Dense @ 14' Dense layer = Grey with iron stains
14	9									PID=
(6) 15	8					SM		1625		Moist @ 15' Dry @ 16' Gresish Brown
	8									Fine Sand, dense with crushed rock @ 16'
	8									No odor PID=
16	15									
	11							1630		No Retrieval - Rock
17	10									
	12									
18	10									
	16							1640		Spoon Refused @ 18.5'
19	50									No Recovery - Rock
	X									
20	X									
	11							1650		No Retrieval, odor on end of spoon Mud on
21	9									end of spoon, water level meter was no readings
	12									
22	10									Continued on Next page ↓

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: B5079F.260120 | BORING NO.: 88-10 | SHEET 2 OF 2

PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST ~~McLean~~ Gaume II

DATE 8/19/02 | WEATHER | AK STATE PLANE COORDINATES (Northing) (Easting) | ELEVATION DATUM

DRILLING METHOD | BORING SIZE | HAMMER DROP (IN/LBS) | RIG TYPE | DRILLER/COMPANY Discovery

SAMPLES | SAMPLE TYPE | SAMPLER TYPE/DIAMETER | TOTAL DEPTH (FT) | DEPTH TO SWL (ft) | TOP OF HOLE ELEVATION

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE: % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE: TIME	INTERVAL	SOIL DESCRIPTION (ASTM 2488)
21										Continuation of MW 88-10
22	13					SM		1705		odor - Moist Crushed rock +
	12									Coarse Sand, grey
23	13									02NE88SB019 PID = 881
	12									
24	14					SM		1715		odor - Crushed Rock + Coarse Sand
	12									grey
25	19									sheen on spoon
	21									PID = 352
26										02NE88SB020
27										Refusal @ 27.5'
28										DT 27.5 Bedrock
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										

WELL COMPLETED? YES ☒ NO ☐

NORTH

Sample

LOCATION SKETCH

WELL CONSTRUCTION LOG

MONTGOMERY WATSON Anchorage, Alaska

PROJECT NO.:	WELL NO.:	SHEET
1850574.260120	81-10	1 OF 1

PROJECT: Phase III RI | SITE: Northeast Cape, St.. Lawernce Island | CLIENT: USACE | GEOLOGIST: O'Connell McLean

DATE: 8/19/02 | WEATHER: Partly cloudy | LOCATION COORDINATES: 96293.0099 (Northing) 97970.2989 (Easting) | ELEVATION DATUM: 14SL (MSL/Other)

DRILLING METHOD: Hollow -Stem Auger | BORING SIZE: 8 1/4 | RIG TYPE: HSA | DRILLER/ COMPANY: Discovery

SURVEYED ELEVATIONS | GROUND SURFACE: 86.86 | TOP OF PROTECTIVE CASING: 86.86 | TOP OF PVC CASING: 86.46

WELL SAMPLED? [X] YES [ ] NO

QUANTITY MATERIALS USED:

Bentonite(lbs)	200
Sand(lbs)	400
Grout(lbs)	—
Screen(ft)	10
Blank Casing(ft)	7
Bottom Cap(ea)	1
Top Cap (ea)	1
Flush Mount	1
Protective Casing (ft)	1
Lock	1
MISC.:	

1.0 STEEL FLUSH-MOUNTED PROTECTIVE CASING (FT - BGL)SECURED WITH 2-1/2" BOLTS

4" ID locking expansion cap

.5 GROUND SURFACE

1.0

PAD TYPE Concrete
DIMENSIONS 2ft2

2" PVC well casing

Silica Sand 6"

(IN) OD PROTECTIVE CASING

GROUT TYPE

(IN) BOREHOLE 8 1/4

(IN) OD SCHEDULE ___ PVC CASING WITH FLUSH THREADED JOINTS

3' TOP OF SEAL (FT - BGL)

(FT) THICK SEAL

SEAL TYPE Pure gold Med. Bentonite chips

15' TOP OF SAND/GRAVEL PACK (FT - BGL)

(FT) ABOVE SLOTTED CASING

17' TOP SLOTTED CASING (FT - BGL)

FILTER PACK TYPE/GRADATION Colorado Silica sand

0.010 (IN) SLOTS CUT INTO (IN) ~~OD TYPE 304 SS~~

Hydrate grout every 3'

WATER LEVEL MEASUREMENTS (ALL MEASUREMENTS IN DEPTH, FT FROM TOP OF PVC CASING)

AFTER CONSTRUCTION ____ (FT)
DATE/TIME ____

AFTER DEVELOPMENT 24.29 (FT)
DATE/TIME 8/20/02 18:00

27' TOTAL DEPTH CASING (FT - BGL)

27.5' TOTAL DEPTH HOLE (FT - BGL)

NOTES

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 18574.260120 | BORING NO.: 88-11 | SHEET 1 OF

PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: C Gnirk / ~~McLean~~

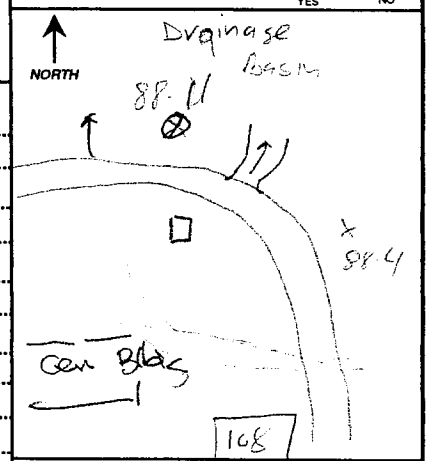
DATE: 8/17/02 | WEATHER: cloudy, winds | AK STATE PLANE COORDINATES: 96241.9412 (Northing) 98320.2355 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: HSA | BORING SIZE: 8 1/4 | HAMMER DROP (IN/LBS): 30/360 | RIG TYPE: CME 75 | DRILLER/ COMPANY: Discovery

SAMPLES: 2 | SAMPLE TYPE: Grab | SAMPLER TYPE/DIAMETER: 2" SS | TOTAL DEPTH (FT): 14' | DEPTH TO SWL (FT): Frozen | TOP OF HOLE ELEVATION: 66.84

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0								1600		
1						SP				Fill - Rock & Gravel
2										
3	4					PT		1820		Peat - Frozen, very hard
4	6									Dark Brown
	6									Slight Odor, PID=
	4									02NE88SB021
5	4					PT		1830		Frozen Peat Slight Odor
6	9									PID=
	9									Ice x-stals in spoon
7	10							1840		No Retrieval Rock?
8										PID=
	24									02NE88SB022
9	21					SM		1850		grey, Fine grained, Sandy Frozen with ice x-stals
	15									PID=
10	21									
	10					SM		1905		greyish-brown Frozen with Ice x-stals
11	19									PID=
	25									
12	27									
	15					SM				Frozen with ice x-stals
13	17									PID=
	11									
14	11									Bottom SB 88-11
15										DF 14.0
16										
17										
18										
19										
20										
21										

WELL COMPLETED? ☐ YES ☒ NO



LOCATION SKETCH

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 185744.260.02.00 | BORING NO.: SB 88-12 | SHEET 1 OF

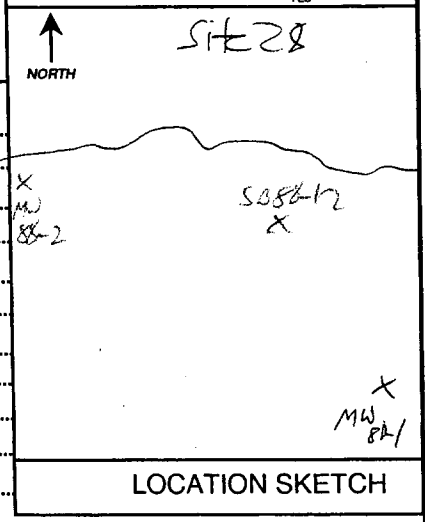
PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: O'Connell ~~McLean~~

DATE: 8/20/02 | WEATHER: Partly cloudy | AK STATE PLANE COORDINATES: 96398.0750 (Northing) 98329.9776 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: HSA | BORING SIZE: 8" | HAMMER DROP (IN/LBS): 30/766 | RIG TYPE: CME 45 | DRILLER/COMPANY: Discovery

SAMPLES: 2 | SAMPLE TYPE: Grab | SAMPLER TYPE/DIAMETER: 2"SS | TOTAL DEPTH (FT): 14.0' | DEPTH TO SWL (FT): 13.0 | TOP OF HOLE ELEVATION: 9.71

WELL COMPLETED? YES ☐ NO ☒



LOCATION SKETCH

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP		1235		Fill - Large rocks 5"-7" + gravel
1										
2	5					SM		1245		Crushed Rock - Brown/Grey fine Sand
	4									No odor/Some Iron staining
3	6									PID = 63.0
	4					PT				Peat @ 4' - with organics
4	6							1250		Brown = No odor/stain in Peat
	6					SM				Grey = Very Fine Dense Sand/Silt
5	7									Brown = Peat w/organics
	10					PT				Grey PID = 89.0
6	8							1255		No odor/stain FROZEN
	11					SM				Very Fine, Dense Sand/Silt PID = 98.0
7	17									Grey, Solid 2' core
	12									
8	12					SM		1306		Solid Grey Frozen @ 8-9'
	19									No odor, stain PID = 65.0
9	23									
	4					SP				Crushed rock Coarse sand @ 10' unfrozen
10	15							1305		
	11					SP				Crushed Rock + Coarse Sand
11	17									No odor/stain PID = 53.0
	14									Moist @ 12 Grey sand + Crushed Rock
12	7							1310		
	10									No Recovery - Rock
13	14									
	8									Filled w/ bentonite D_T 14.0
14										Frozen from 6-9'
15										
16										Sample 02NE88SB23 = #2 4-6.0'
										24 = #5 10.0-12.0'
17										
18										
19										
20										
21										

1857T.260120

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: SB 88-13 | BORING NO.: 88-13 | SHEET 1 OF

PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST OConnell / ~~McLean~~

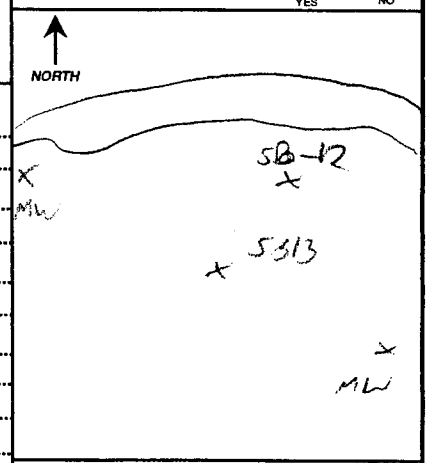
DATE 8/20/02 | WEATHER Partly Cloudy | AK STATE PLANE COORDINATES 9634.182 (Northing) 98303.2553 (Easting) | ELEVATION DATUM MSL

DRILLING METHOD HSA | BORING SIZE 8 1/4 | HAMMER DROP (IN/LBS) 30/360 | RIG TYPE CME 45 | DRILLER/ COMPANY Discovery

SAMPLES 2 | SAMPLE TYPE Grab | SAMPLER TYPE/DIAMETER 2"SS | TOTAL DEPTH (FT) 16' | DEPTH TO SWL (FT) Frozen | TOP OF HOLE ELEVATION 69.51

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0										
1										
2	7					SP		1405	↑	Crushed rock + sand - odor
(1)	11									No staining
3	8									PID = 79.9
	4					PT			↓	Peat @ 4Ft+ with organics
4	2					PT		1410	↑	Peat Ends
(2)	5					SM				Frozen Dense grey w/ odor
5	12									PID = 35.7
	10								↓	
6	5					SM		1415	↑	Frozen Dense grey - odor
(3)	4									PID = 15.3
7	3					PT				Unfrozen Peat @ 7 - odor
	5								↓	
8	4					SM		1420	↑	Fine grey Frozen Silt/Sand No odor
(4)	5									
9	9									No odor PID = 51.0
	9									Frozen @ 10
10	3					SM		1425		Frozen Solid No odor
(5)	7									Fine grey Silt/Sand PID = 55.1
11	9									
	7								↓	
12	7					SM		1430	↑	Frozen with ice No odor PID = 91.0
(6)	7									Fine, grey Sand/Silt
13	7									
	11								↓	
14	3					SM		1435	↑	Frozen Fine grey sand/silt - PID = 11.2
(7)	7									No odor
15	7									
	7					SM			↓	Frozen DT @ 16.0
16										End of Boring
17										
18										Sample 02NE88SB25 = #3 6.0-8.0
										26 - 47 14.0-16.0
19										
20										
21										

WELL COMPLETED? ☐ YES ☒ NO



LOCATION SKETCH

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 18574.269.120 | BORING NO.: 88-14 | SHEET 1 OF 1

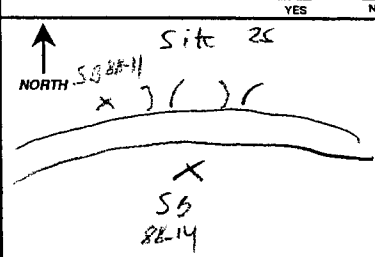
PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST QCannell ~~McLean~~

DATE 8/29/02 | WEATHER Partly cloudy | AK STATE PLANE COORDINATES 9625l.2105 (Northing) 98292.8032 (Easting) | ELEVATION DATUM MSL

DRILLING METHOD HSA | BORING SIZE 8" | HAMMER DROP (IN/LBS) 30/360 | RIG TYPE CME 45 | DRILLER/ COMPANY Discovery

SAMPLES 2 | SAMPLE TYPE Grab | SAMPLER TYPE/DIAMETER 2" SS | TOTAL DEPTH (FT) 14' | DEPTH TO SWL (FT) 14.0 | TOP OF HOLE ELEVATION (7.1)

WELL COMPLETED? ☐ YES ☒ NO



LOCATION SKETCH

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0										
1										
2	6					SO		1505		Fill / odor
3	7									PID = 6080
	6									
	5					PT				Peat w/odor
4	3							1510		
	3					PT				Peat . odor
5	4									PID = 788
	3									
6	2					PT		1515		Peat - slight odor
	4									
7	7									
	6					SM				Dark Dark grey Fine Sand/Silt . odor PID = 120
8	3							1520		
	5									
9	5					SM				Dense grey Fine Sand/silt odor PID = 172
	5									
10	4					SM		1525		Dense grey Fine Sand/silt odor PID = 505
	6									
11	5									
	4									
12	3					SM		1530		Dense grey-brown Fine Sand + Peat w/ odor
	2									
13	1									Sheen on Spoon PID = 150
	5									
14										end of boring DT 14.0
15										
16										Sample 02NE88 SB 27 - #1 2.0-4.0
										" 28 - #6 12.0 14.0
17										
18										
19										
20										
21										

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 18574.260120 | BORING NO.: SB88-15 | SHEET 1 OF

PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: O'Connell ~~McLean~~

DATE: 8/20/02 | WEATHER: Partly cloudy | AK STATE PLANE COORDINATES: 96253.7354 (Northing) 98228.4465 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: HSA | BORING SIZE: 8¼ | HAMMER DROP (IN/LBS): 30/360 | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

SAMPLES: 2 | SAMPLE TYPE: Grab | SAMPLER TYPE/DIAMETER: 2"SS | TOTAL DEPTH (FT): 22' | DEPTH TO SWL (FT): 13.0 | TOP OF HOLE ELEVATION: 71.21

WELL COMPLETED? YES ☐ NO ☒

NORTH

× SB88-14

Gen Bldg

× SB88-15

Top

LOCATION SKETCH

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP		1705		Rocky Fill 3"-5"
1										
2										
3										
4 (1)	11					SP		1715		Crushed Rock + Sand Fine @ 5'
5	8									No odor/stain
	8									PID=120
	11									Coarse Sand @ 6'
6	25					SP		1720		
7	25									No Recovery, slight odor on spoon
	17									
	12									
8	7							1725		
9	6									No Recovery, slight odor on spoon
	6									
	5									
10 (2)	3					SM		1730		Moist, sticky Very Fine Sand/silt grey
11	5									No odor
	5									PID=2770
	7									
12 (3)	4					SM		1735		Very Fine, Dense grey silt + sand No odor
13	5					▽				Some Iron staining PID=133
	7					≡				
	7									
14 (4)	6							1740		Fine, Silt + Sand/grey No odor Some Rocks
15	6									
	8									PID=
	7									Crumbly @ 16'
16	25							1745		
	27									No Recovery - Rock
17	22									Sample @ NE88S15 29 = #2
	13									30 = #3
18 (5)	7							1750		Very Fine, Dense Grey Silt + Sand No odor
19	9									Some Rock
	12									
	10									PID=
20	7							1800		Very Fine Dense Grey Silt/Sand No odor
(6)	6									
21	7									PID=
										Water found @ 13' - end of boring

22

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 18574.260120 | BORING NO.: 88-16 | SHEET 1 OF

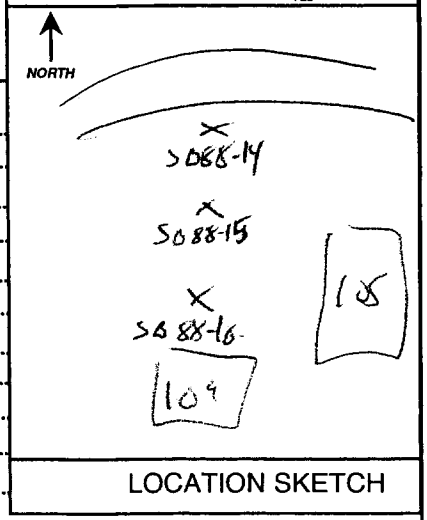
PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: OConnell ~~Mebean~~

DATE: 8/20/02 | WEATHER: Partly cloudy | AK STATE PLANE COORDINATES: 96260.0342 (Northing) 98182.7094 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: HSA | BORING SIZE: 8¼ | HAMMER DROP (IN/LBS): 30/360 | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

SAMPLES | SAMPLE TYPE: Grab | SAMPLER TYPE/DIAMETER: 2" SS | TOTAL DEPTH (FT): 14.0 | DEPTH TO SWL (FT): 12.0 | TOP OF HOLE ELEVATION: 72.95

WELL COMPLETED? ☐ YES ☒ NO



LOCATION SKETCH

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE: % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE: TIME	INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP				Rocky Fill 3"-5"
4	12					SP		1845		crushed rock + Fill, odor
5	12									Some brown Sand
	11									PID = 655
	12									
6	9					SP		1850		Crushed Rock + Sand odor
7	8									PID = 1558
	11									
	8									Geotech - 02NE88SB043
8	13							1905		
9	11					SP				odor, crushed rock + coarse sand odor=
	9									PID = 1142
	8									
10	14					SP		1905		odor, crushed rock, coarse grey sand
11	12									
	9					SP				PID = 2672
	13					▽				
12	10					=		1910		Saturated Crushed rock, sheen, NO Recovery
	8									
13	14									
	18									
14										TD 14.0
15										Sample 02NE88SB31 = #2 6.0-8.0
16										#2 = #4 10.0-12.0
17										
18										
19										
20										
21										

18574, 268120

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: | BORING NO.: 88-17 | SHEET 1 OF 1

PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST Connell ~~McLean~~

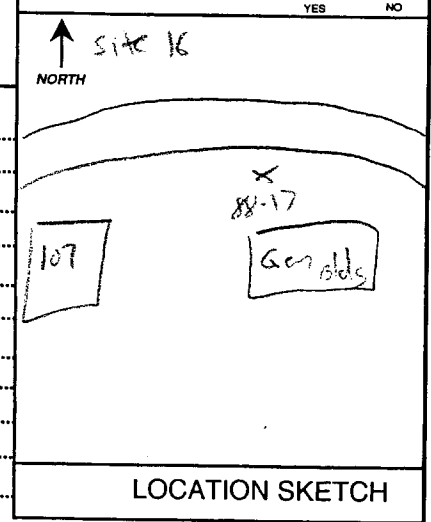
DATE 8/2/02 | WEATHER Cloudy | AK STATE PLANE COORDINATES 96171.5812 (Northing) 98270.0490 (Easting) | ELEVATION DATUM MSL

DRILLING METHOD HSA | BORING SIZE 8 1/4 | HAMMER DROP (IN/LBS) 30/366 | RIG TYPE CME 45 | DRILLER/ COMPANY Discovery

SAMPLES 2 | SAMPLE TYPE Grab | SAMPLER TYPE/DIAMETER 2"SS | TOTAL DEPTH (FT) 14,0 | DEPTH TO SWL (FT) 13,0 | TOP OF HOLE ELEVATION 9,65

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0										
1										
2	13							1435		No Recovery, slight odor on Spoon
3	50 X									
4	25 22							1440		No Recovery
5	27 9									
6	15 9							1450		No Recovery
7	8 6									
8	5 12					SM		1500		Very strong odor Dense grey Sand/silt
9	6 18									PID = 9999+
10	9 8					SP		1505		Crushed rock - grey, odor
11	10 8									PID = 2315
12	12 15					SP		1510		Crushed rock + Sand, odor PID = 9999+
13	16 14					▽				
14										D- Tray sample of NE 88 5033 = (1) 8.0-10.0 034 = (3) 12.0-14.0
15										
16										ONE XXSB234 (FD)
17										
18										
19										
20										
21										

WELL COMPLETED? ☐ YES ☒ NO



LOCATION SKETCH

18574.260120

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: | BORING NO.: 88-1 | SHEET 1 OF

PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST O'Connell ~~McLean~~

DATE 8/21/02 | WEATHER cloudy | AK STATE PLANE COORDINATES 96070.5355 (Northing) 98228.2167 (Easting) | ELEVATION DATUM MSL

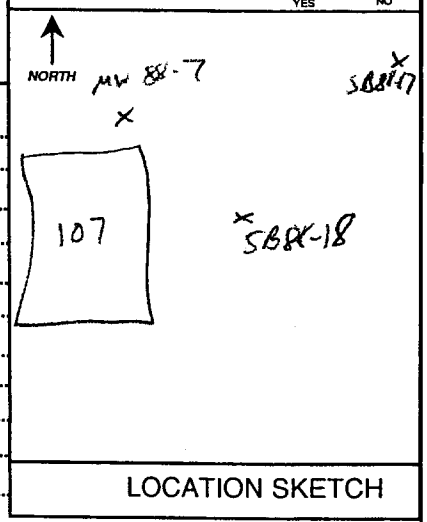
DRILLING METHOD HSA | BORING SIZE 8 1/4 | HAMMER DROP (IN/LBS) 30/360 | RIG TYPE CME 45 | DRILLER/ COMPANY Discovery

SAMPLES 2 | SAMPLE TYPE Grab | SAMPLER TYPE/DIAMETER 2" SS | TOTAL DEPTH (FT) 14' | DEPTH TO SWL (FT) 13.0 | TOP OF HOLE ELEVATION 71.93

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0								1530		
1										
2	8					SM		1540		Slight odor, Brown Sand & Crushed rock
	13									
3	15									PID = 225
	15									
4	9					SM		1545		Brown Sand, crushed rock
	11									Slight odor
5	16									PID = 253
	16									
6	13					SP		1550		Odor, Crushed rock & grey sand
	16									PID = 2913
7	19									
	10									Geotech - No recovery
8	15					SW		1555		
	21									grey sand, odor, coarse
9	15									PID = 4903
	8									- Geotech - O2NE88SB044
10	4					SM		1605		moist, grey Fine sand & silt
	5									Strong odor PID = 4113
11	6									
	9									
12	5							1615		No recovery, strong odor on spoon
	4					▽				
13	9					=				
	11									
14										
15										Sample O2NE88SB035 - #4
										036 - #5
16										
17										O2NE88SB335 (QA/MS/MSD)
										O2NE88SB236 (FD)
18										
19										
20										
21										

WELL COMPLETED? ☐ YES ☒ NO

LOCATION SKETCH



SB 22-1

MONTGOMERY WATSON Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 18574.260128 | BORING NO.: SB 22-19 | SHEET 1 OF 2

PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: OConnell ~~McLean~~

DATE: 8/22/02 | WEATHER: Cloudy | AK STATE PLANE COORDINATES: 96206.4925 (Northing) 97683.0309 (Easting) | ELEVATION DATUM: MSL

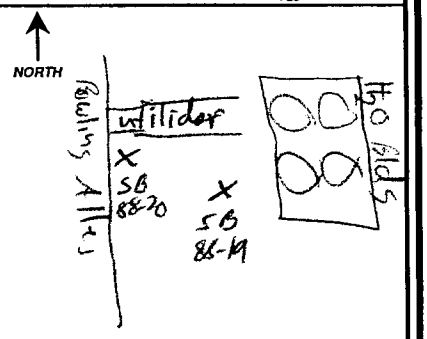
DRILLING METHOD: HSA | BORING SIZE: 8 1/4 | HAMMER DROP (IN/LBS): 30/360 | RIG TYPE: CME 45 | DRILLER/COMPANY: Discovery

SAMPLES: 2 | SAMPLE TYPE: Grab | SAMPLER TYPE/DIAMETER: 2"SS | TOTAL DEPTH (FT): 32' | DEPTH TO SWL (FT): — | TOP OF HOLE ELEVATION: 97.75

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP		1210		Rocky Fill
8	10 31 18 41					SP		1225		(1) Crushed Rock + Sand No oder/stain Brownish grey PID = 0
10	38 23 17 14					SP		1230		(2) Crushed Rock + Sand No oder/stain Brownish grey PID = 0
12	46 16 47 28					SP		1235		(3) Crushed Rock, Coarse grey sand, Moist/wet No oder/stain PID = 0
14	12 14 13 19					SP		1250		(4) Crushed rock coarse sand No oder/stain PID = 0
16	13 15 15 10					SP		1255		(5) Crushed rock Coarse sand No oder/stain PID = 0
18	11 11 13 15					SP		1305		(6) Cracked rock + sand No oder/stain PID = 0
20	18 26 14					SP		1315		(7) Crushed Rock, Brown sand, No oder/stain
21										Continued ↓ ↓

WELL COMPLETED? YES ☐ NO ☒

LOCATION SKETCH



22 15

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 18574.260120 | BORING NO.: 88-19 | SHEET 2 OF 2

PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST ~~McLean~~ OConnell

DATE 8/ /02 | WEATHER | AK STATE PLANE COORDINATES (Northing) (Easting) | ELEVATION DATUM

DRILLING METHOD | BORING SIZE | HAMMER DROP (IN/LBS) | RIG TYPE | DRILLER/ COMPANY Discovery

SAMPLES | SAMPLE TYPE | SAMPLER TYPE/DIAMETER | TOTAL DEPTH (FT) | DEPTH TO SWL (ft) | TOP OF HOLE ELEVATION

WELL COMPLETED? YES NO

NORTH

LOCATION SKETCH

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE: % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE: TIME	INTERVAL	SOIL DESCRIPTION (ASTM 2488)
21										Continued SB 88-19
22	10							1325		No Recovery
	12									
23	11									
	29									
24	26					SP		1340		Crushed rock No odor/stain
(8)	11									
25	6									
	6									Fine Gravelly Sand PID = 0
26	3					SW		1350		Fine Brown Sand
(9)	5									
27	5									PID = 0
	16					SM				Dense Gvlly Sand/Silt
28	10							1400		Moist Silt/Sand
(10)	15									02NE885B037 / 237 (FD) PID = 0
29	23									Crushed Rock + Sand
	50									
30	43					SP		1410		Crushed Rock + Sand
(11)	20									02NE885B038 / 338 (QA) PID = 0
31	25									
	27									
32										Augur Refusal @ 32'
33										Sample 02NE885B37 = #10 + 237 FD
										38 = #11 338 QA
34										
35										
36										
37										
38										
39										
40										
41										
42										

18574.260120 SB 88-2

MONTGOMERY WATSON Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: | BORING NO.: 88-20 | SHEET 1 OF 2

PROJECT Phase III RI SITE Northeast Cape, St. Lawernce Is CLIENT USACE - Alaska GEOLOGIST O'Carroll ~~Melcan~~

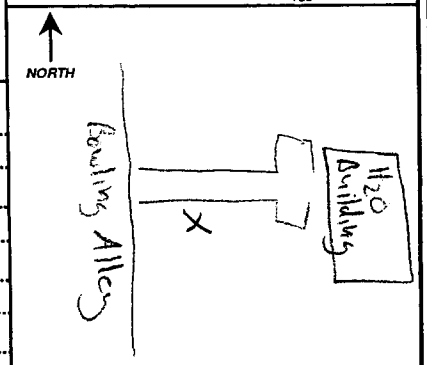
DATE 8/21/02 WEATHER

AK STATE PLANE COORDINATES 96233.7446 (Northing) 97685.3823 (Easting) ELEVATION DATUM MSL

DRILLING METHOD HSA BORING SIZE 8¼ HAMMER DROP (IN/LBS) 30/360 RIG TYPE CME 45 DRILLER/ COMPANY Discovery

SAMPLES 2 SAMPLE TYPE Grab SAMPLER TYPE/DIAMETER 2" SS TOTAL DEPTH (FT) 36' DEPTH TO SWL (FT) — TOP OF HOLE ELEVATION 98.14

WELL COMPLETED? YES NO



LOCATION SKETCH

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP		1740		Fill Rock + Gravel
8	26 50 X X							1810		No Recovery
10 (1)	14 18 16 12					SP		1820		Crushed rock No odor, Grey-brown PID = 0
12 (2)	16 14 15 12					SP		1825		Crushed rock + sand No odor/stain grey-brown PID = 0
14 (3)	22 11 14 13					SP		1835		Crushed Rock No odor/stain PID = 0 Tan-Grey
16 (4)	9 22 17 18					SP		1845		Crushed Rock No odor/stain PID = 0
18	28 50 X X							1855		No Recovery
20	50 X X							1905		No Recovery
21										Continued ↓

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: | BORING NO.: 88-20 | SHEET 2 OF 2

PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST ~~McLean~~ Connell

DATE 8/21/02 | WEATHER | AK STATE PLANE COORDINATES seaps (Northing) (Easting) | ELEVATION DATUM

DRILLING METHOD | BORING SIZE | HAMMER DROP (IN/LBS) | RIG TYPE | DRILLER/COMPANY Discovery

SAMPLES | SAMPLE TYPE | SAMPLER TYPE/DIAMETER | TOTAL DEPTH (FT) | DEPTH TO SWL (fT) | TOP OF HOLE ELEVATION

WELL COMPLETED? ☐ YES ☒ NO

NORTH ↑

see pg. 1

LOCATION SKETCH

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE: % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE: TIME	INTERVAL	SOIL DESCRIPTION (ASTM 2488)
21										Continued - No Recovery
22	9					SP		1915		Crushed Rock - PID=0
(5) 23	13									No odor / stain
24	8									
(6) 25	16					SP		1925		Crushed Rock, Brown Sand
	10									No oda
	6									PID=0
26	4									
(7) 27	11					SP		1935		Fine grey Sand with some Iron Staining
	9									No odor, Crushed rock
	15									PID=0
28	21									
(8) 29	50					SP		1450		Crushed rock, Brown Sand PID=0
	23									
	49									
	50									End of Day 10-24-02
	X									10-25-02 ↓
30	50							1030		No Recovery
31	X									
	X									
	X									
32	50							1045		No Recovery
33	X									
	X									
	X									
34	50							1055		No Recovery
35	X									
	X									
	X									
36								1115		Auger Refused @ 36' on Rock
37										Sample 02NE88SB034=#7 + 239 (FD)
										040=#8 340 (DA)
38										
39										
40										
41										
42										

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-1 DATE: 8/15/02
SAMPLE TYPE: NA FIELD CREW: DQ TIME Start: 1030 End 1230
WEATHER: SKY: P. Cloudy PRECIP: 0 WIND: 5 Air Temp. 50

GROUNDWATER: DEVELOPMENT X SAMPLING ____

Well Condition: NEW
Casing Ht. Above Ground: N/A FLUSH (FT.) Diameter: 2" in.
Well Depth: 25.90* ft. BTOC (Meas./Rec.) Static Water Level: 21.78 ft. BTOC
Casing (C) = X Well ____ Outside Protective
* Prior to casing cut and flush mount installation
ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= .67 gal. (3 purge = ~ 2 gal)

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
Bailer	0	1030	7.9	283.1	5.98
	1	1032	4.8	231.1	6.32
	2+	1040	4.7	228.6	6.69
	No more water	1230	DRY - Sample Directly Removed		
Ded. Pump					
Suction Pump					
Purge Pump (other)					

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: ____ Width: ____ Velocity: ____ Flow: ____ cfs (Est./Meas.)
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____

SAMPLE COLLECTION

Method: ____ Appearance: ____

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
				Density	
Methane/Ethane/ Ethene RSK175				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split ____ Dupl. ____ Trip Blank ____ Other ____
** METALS FIELD FILTERED: ____ . PHOTO TAKEN # ____
Calibration/Standard: pH 4, 7, 10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8/15/02
REMARKS:

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-1 DATE: 8/16/02
SAMPLE TYPE: GRAB FIELD CREW: DQ TIME Start: 1310 End 1600
WEATHER: SKY: _____ PRECIP: Ø WIND: 5 Air Temp. 50

GROUNDWATER: DEVELOPMENT _____ SAMPLING X

Well Condition: New
Casing Ht. Above Ground: NA FLUSH* (FT.) Diameter: 2 in.
Well Depth: 26.48 ft. BTOC (Meas./Rec.) Static Water Level: 21.94 ft. BTOC
Casing (C) = X Well ____ Outside Protective
* Prior to casing (ave) cut and flush install.
ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= 3x Purge ¾ 2.25 gal .75 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
Bailer	0	1320	6.2	386.8	6.07
	1 dry	1330	6.0	387.5	6.03
	1+ dry	1400	6.0	207.4	6.89
Ded. Pump					
Suction Pump					
(other)					

* TEMP. CORRECTED @ 25C DO 8.4 mg/L
TURB >1,000 NTU
CO_2 Not Readable due to turbidity

SURFACE WATER 02NE88GW001

Channel Depth: _____ Width: _____ Velocity: _____ Flow: _____ cfs (Est./Meas.)
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____

SAMPLE COLLECTION 02NE88GW001 Possibly too Turbid

Method: Bailer Teflon Disposible Appearance: Very Turbid, Brown, No Sheen visible, Petrol Odor

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1400 +				
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split _____ Dupl. _____ Trip Blank 77 Other 02NE88TB003 8/19/02 2400
** METALS FIELD FILTERED: _____. PHOTO TAKEN # _____
Calibration/Standard: pH 4, 7, 10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8-16-02
REMARKS: Extremely Slow Recharge. Indicative of Perched Groundwater

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING
FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-2 DATE: 8-15-02
SAMPLE TYPE: NA FIELD CREW: DO TIME Start: 1130 End 1455
WEATHER: SKY: P Cloudy PRECIP: 0 WIND: 5 Air Temp. 58

GROUNDWATER : DEVELOPMENT X SAMPLING _____

Well Condition: NEW
Casing Ht. Above Ground: Flush (FT.) Diameter: 2 in.
Well Depth: 18.06 ft. BTOC (Meas./Rec.) Static Water Level: 9.71 ft. BTOC
Casing (C) = X Well ____ Outside Protective

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= 3 purge 25 1.7 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
	0	1130	5.7	224.2	6.50
	2 dry	1140	4.6	243.1	6.06
Bailer	3 dry	1455	4.8	237.8	6.10
Ded. Pump					
Suction Pump					
Reverse Pump					
(other)					

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: _____ Width: _____ Velocity: _____ Flow: _____ cfs (Est./Meas.)
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____

SAMPLE COLLECTION

Method: _____ Appearance: _____

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split _____ Dupl. _____ Trip Blank _____ Other _____
** METALS FIELD FILTERED: _____ . PHOTO TAKEN # _____
Calibration/Standard: pH 4,7,10 EC ✓ DO NA CO2 NA
Decon completed: by DO date 8/15/02
REMARKS:

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-2 DATE: 8-17-02
SAMPLE TYPE: Grab FIELD CREW: DQ TIME Start: 1645 End 1800
WEATHER: SKY: P.C. PRECIP: RAIN WIND: 40-50 Air Temp. 90°F

GROUNDWATER : DEVELOPMENT _____ SAMPLING X

Well Condition: NEW
Casing Ht. Above Ground: Flush (FT.) Diameter: 2 in.
Well Depth: 20.06 ft. BTOC (Meas./Rec.) Static Water Level: 12.00 ft. BTOC
Casing (C) = X Well ____ Outside Protective

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= 3 x purge = 4 1.3 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
	0	1645	6.0	335.1	7.09
	1	1650	5.9	332.7	7.11
Bailer	2 dry	1655	5.2	230.4	6.79
	24 dry	1700	5.0	226.7	6.80
Ded. Pump					
Suction Pump					
(other)					

TURB - 288 NTU, DO 8.2 mg/L
CO_2 NA - Due to turbidity

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: Width: Velocity: Flow: cfs (Est./Meas.)
Temp: E.C: * pH:* Redox (eH):
Temp: E.C: * pH:* Redox (eH):

SAMPLE COLLECTION 02NE88GW0002

Method: Bailer Teflon Disposible Appearance: Turbid, Brown, No Odor, No Sheen

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1700				
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split _____ Dupl. _____ Trip Blank ✓ Other _____
** METALS FIELD FILTERED: _____. PHOTO TAKEN # _____ 02NE88TB0025 8/19/02
Calibration/Standard: pH 4,7,10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8-17-02
REMARKS: Indicative of Perched water. Column appears full but once purged extremely slow to recover

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-3 DATE: 8-18-02
SAMPLE TYPE: NA FIELD CREW: DQ TIME Start: 1020 End 1050
WEATHER: SKY: P.C. PRECIP: ϕ WIND: 10 Air Temp. 50

GROUNDWATER : DEVELOPMENT X SAMPLING _____

Well Condition: NEN
Casing Ht. Above Ground: NA Flush (FT.) Diameter: 2 in.
Well Depth: 20.10* ft. BTOC (Meas./Rec.) Static Water Level: 15.12 ft. BTOC
Casing (C) = X Well ____ Outside Protective
* Prior to PVC Cut.
ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= 3x Purge = ≈2.5 .83 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*	
	0	1050	4.5	437.6	8.20	Sheen + Odor
	1	1005	3.2	279.2	7.41	
Bailer	2	1010	3.4	242.7	7.43	Muddy Brown
	3	1015	3.6	248.5	7.40	
Ded. Pump	5	1030	3.6	237.0	7.38	Clearing up
	10	1050	3.6	233.7	7.40	Clearing up
Suction Pump						
Purger Pump						
(other)						

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: _____ Width: _____ Velocity: _____ Flow: _____ cfs (Est./Meas.)
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____

SAMPLE COLLECTION

Method: _____ Appearance: _____

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split _____ Dupl. _____ Trip Blank _____ Other _____
** METALS FIELD FILTERED: _____ . PHOTO TAKEN # _____
Calibration/Standard: pH 4, 7, 10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8/18/02
REMARKS:

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-3 DATE: 8-19-02
SAMPLE TYPE: Grab FIELD CREW: DQ TIME Start: 1215 End 1375
WEATHER: SKY: P.C. PRECIP: 0 WIND: 10 Air Temp. 50

GROUNDWATER : DEVELOPMENT _____ SAMPLING X

Well Condition: NEW
Casing Ht. Above Ground: Flush / Final Elev. (FT.) Diameter: 2 in.
Well Depth: 19.64 ft. BTOC (Meas./Rec.) Static Water Level: 14.76 ft. BTOC
Casing (C) = X Well ____ Outside Protective

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= 3x Purge 3 2.55 .85 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
Bailer	0	1215	3.6	129.4	8.56
	1	1217	2.4	138.0	8.03
	2 dry	1220	2.5	141.6	7.66
	3 dry	1230	2.5	153.8	7.32
Ded. Pump					
Suction Pump					
Purger Pump (other)					

DO 8.2 mg/l, Turb > 1,000 NTU
CO_2 NM - too turbid

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: ____ Width: ____ Velocity: ____ Flow: ____ cfs (Est./Meas.)
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____

SAMPLE COLLECTION 02NE886W003
Method: Bailer Teflon Disposible Appearance: Brownish, Sheen & Petrol Odor Present

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1230				
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
				Density	
Methane/Ethane/ Ethene RSK175	✓			Interfacial Tension	

COMMENTS: QA/QC Label ID: Split ____ Dupl. ____ Trip Blank ✓ Other 8 oz @ 2100
02NE886TB003
** METALS FIELD FILTERED: ____ . PHOTO TAKEN # ✓
Calibration/Standard: pH 4, 7, 10 EC ✓ DO NM CO2 NM
Decon completed: by DQ date 8-19-02
REMARKS:

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING
FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-4 DATE: 8-18-02
SAMPLE TYPE: NA FIELD CREW: DQ TIME Start: 1100 End 1200
WEATHER: SKY: P.C. PRECIP: 0 WIND: 10 Air Temp. 50

GROUNDWATER : DEVELOPMENT X SAMPLING ____

Well Condition: NW
Casing Ht. Above Ground: Flush* (FT.) Diameter: 2 in.
Well Depth: 17.2 * ft. BTOC (Meas./Rec.) Static Water Level: 11.20 ft. BTOC
Casing (C) = X Well ____ Outside Protective
* Prior to PVC cut.

3 x Purge = 3.0 gal
ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= 1.0 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*	
Bailer	0	1100	4.4	602	7.35	Muddy
	5	1115	3.9	630	7.21	Muddy
	7	1125	3.9	649	6.79	less Mud
	10	1135	3.8	626	6.81	P. Clear
Ded. Pump	15	1200	3.8	621	6.78	Clearing
Suction Pump						
Rover Pump (other)						

* TEMP. CORRECTED @ 25C

Sheen & Petrol Odor Present

SURFACE WATER

Channel Depth: ____ Width: ____ Velocity: ____ Flow: ____ cfs (Est./Meas.)
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____

SAMPLE COLLECTION

Method: ____ Appearance: ____

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split ____ Dupl. ____ Trip Blank ____ Other ____

** METALS FIELD FILTERED: ____ . PHOTO TAKEN # ____

Calibration/Standard: pH 4, 7, 10 EC — DO NA CO2 NA

Decon completed: by DQ date 8/18/02

REMARKS:

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-4 DATE: 8-19-02
SAMPLE TYPE: Grab FIELD CREW: DQ TIME Start: 1245 End 1330
WEATHER: SKY: P.C. PRECIP: 0 WIND: 10 Air Temp. 50

GROUNDWATER : DEVELOPMENT _____ SAMPLING X

Well Condition: NEW
Casing Ht. Above Ground: NA - FLUSH (FT.) Diameter: 2 in.
Well Depth: 16,14 Final Estimate ft. BTOC (Meas)/Rec. Static Water Level: 10,41 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3 x Purge = 30

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= 3.0 1.0 gal.

PURGING:	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
METHOD	0	1245	3.2	646	6.78
	1	1247	2.1	630	6.62
Bailer	2	1250	2.1	668	6.63
	3	1255	2.1	666	6.60
Ded. Pump	4 dry	1310	2.1	666	6.62
	5 dry	1330	2.1	665	6.61
Suction Pump					
Purger Pump (other)					

Turb = >1,000 NTU, DO + CO_2 NA DUE TO High Turbidity

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: _____ Width: _____ Velocity: _____ Flow: _____ cfs (Est./Meas.)
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____
~~Temp:~~ _____ E.C: * _____ pH:* _____ Redox (eH): _____

SAMPLE COLLECTION

Primary: O2NE88GW004, Duplicate: O2NE88GW204, Triplicate (split QA): O2NE88GW304 (MS/MSD All Analytes)

Method: Bailer (Teflon) Appearance: Grey Brown / Silten Petrol Odor

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1330				
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175		Sample turbid		Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split 1340 Dupl. 1335 Trip Blank ↑ Other 8/19/02 2102

** METALS FIELD FILTERED: _____. PHOTO TAKEN # ✓ O2NE 88 TB003

Calibration/Standard: pH 4, 7, 10 EC ✓ DO NA CO_2 NA

Decon completed: by DQ date 8-19-02

REMARKS:

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING
FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-5 DATE: 8-18-02
SAMPLE TYPE: NA FIELD CREW: DQ TIME Start: 1400 End 1545
WEATHER: SKY: PRECIP: Ø WIND: 5 Air Temp. 50

GROUNDWATER : DEVELOPMENT X SAMPLING

Well Condition: NEW
Casing Ht. Above Ground: NA - Flush (FT.) Diameter: 2 in.
Well Depth: 17.45 * ft. BTOC (Meas./Rec.) Static Water Level: 12.32 ft. BTOC
Casing (C) = X Well ____ Outside Protective
* Prior to PVC Cut - See Sampling for Final Elevation
3 X Purge = 2.85 gal
ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= .85 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*	
	0	1400	4.4	239.9	7.34	Very Dark
	1 dry	1410	3.9	237.2	7.24	Petrol Odor
Bailer	11 dry	1430	4.2	242.3	6.53	Very Slow
	2 dry	1450	4.2	244.5	6.52	Clearing
Ded. Pump	21 dry	1530	4.2	242.0	6.58	Clearing
Suction Pump						
Purgair Pump						
(other)						

* TEMP. CORRECTED @ 25C

Sheen + Petrol Odor

SURFACE WATER

Channel Depth: Width: Velocity: Flow: cfs (Est./Meas.)
Temp: E.C: * pH:* Redox (eH):
Temp: E.C: * pH:* Redox (eH):

SAMPLE COLLECTION

Method: Appearance:

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split Dupl. Trip Blank Other

** METALS FIELD FILTERED: . PHOTO TAKEN #

Calibration/Standard: pH 4, 7, 10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8/18/02
REMARKS:

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-5 DATE: 8-19-02
SAMPLE TYPE: Grab FIELD CREW: DQ TIME Start: 1315 End 1520
WEATHER: SKY: P.C. PRECIP: 0 WIND: 10 Air Temp. 50

GROUNDWATER : DEVELOPMENT _____ SAMPLING X

Well Condition: NEW
Casing Ht. Above Ground: NA - FLUSH (FT.) Diameter: 2 in.
Well Depth: 14.95 (Original placed) ft. BTOC (Meas./Rec.) Static Water Level: 9.8 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3 x Purge ≈ 2.5
ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= .85 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
Bailer	C	1315	4.1	236.8	7.60
	1 dry	1320	3.3	252.9	7.25
	1+ dry	1500	3.3	201.1	7.16
Ded. Pump					
Suction Pump					
~~Purger Pump~~ DC (other)					

Turb > 1,000 NTU
DO = NA
CO_2 = NA > due to turbidity

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: _____ Width: _____ Velocity: _____ Flow: _____ cfs (Est./Meas.)
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____
~~Temp:~~ _____ E.C: * _____ pH:* _____ Redox (eH): _____

SAMPLE COLLECTION 02NE88GW005

Method: Bailer (Teflon) Disposable Appearance: Dark gray, sheen, heavy petrol odor

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1500				
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split _____ Dupl. _____ Trip Blank ↑ Other _____ 8/9 loc @ 2100
** METALS FIELD FILTERED: _____. PHOTO TAKEN # _____ 02NE88TB003
Calibration/Standard: pH 4, 7, 10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8-19-02
REMARKS: Extremely slow discharge. Very indicative of perched water

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING
FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-6 DATE: 8-19-02
SAMPLE TYPE: NA FIELD CREW: DQ TIME Start: 1100 End 1230
WEATHER: SKY: P.C PRECIP: ϕ WIND: 10 Air Temp. 50

GROUNDWATER : DEVELOPMENT X SAMPLING ____

Well Condition: NEW
Casing Ht. Above Ground: NA - Flush (FT.) Diameter: 2 in.
Well Depth: 15.2 ft. BTOC (Meas./Rec.) Static Water Level: 10.40 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3 x 1 purge = ~2.5 gal

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= .85 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*	
	0	1100	6.2	420.8	7.45	Very Dark Grey
	1 dry	1110	4.3	454.7	7.16	
Bailer	2 dry	1130	4.3	428.4	6.88	
	3 dry	1145	4.0	419.8	6.90	
Ded. Pump	4 dry	1230	3.6	414.1	6.98	
Suction Pump						
Purger Pump (other)						

* TEMP. CORRECTED @ 25C

STRONG Petrol Odor

SURFACE WATER

Channel Depth: ____ Width: ____ Velocity: ____ Flow: ____ cfs (Est./Meas.)
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____

SAMPLE COLLECTION

Method: ____ Appearance: ____

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split ____ Dupl. ____ Trip Blank ____ Other ____
** METALS FIELD FILTERED: ____ . PHOTO TAKEN # ____
Calibration/Standard: pH 4, 7, 10 EC ~ DO NA CO2 NA
Decon completed: by DQ date 8/19/02
REMARKS:

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-6 DATE: 8-20-02
SAMPLE TYPE: Grab FIELD CREW: DQ TIME Start: 1230 End 1315
WEATHER: SKY: PC PRECIP: 0 WIND: 10 Air Temp. 50

GROUNDWATER : DEVELOPMENT _____ SAMPLING X

Well Condition: NEW
Casing Ht. Above Ground: Flush (FT.) Diameter: 2 in.
Well Depth: 15.20 ft. BTOC (Meas)/Rec. Static Water Level: 10.43 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3 x pwg = 22.5 gal

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= .8 gal.

PURGING:	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
METHOD	0	1230	4.4	411.0	7.52
	1	1240	3.2	393.9	7.53
Bailer	2 dry	1245	3.0	419.6	7.00
	2+ dry	1300	3.0	413.0	7.09
Ded. Pump					
Suction Pump					
(other)					

TURB >1,000 NTU
DO NA
CO_2 NA > 7000 TURBID

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: Width: Velocity: Flow: cfs (Est./Meas.)
Temp: E.C: * pH:* Redox (eH):
Temp: E.C: * pH:* Redox (eH):

SAMPLE COLLECTION 02NE88GW006
Method: Teflon Bailer (Disposible) Appearance: Dark Gray, Very Turbid, Sheen, Odor (strong)

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1300				
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split Dupl. Trip Blank 2100 Other
** METALS FIELD FILTERED: . PHOTO TAKEN # 8-19-02 02NE88TB003
Calibration/Standard: pH 4,7,10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8-20-02
REMARKS:

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-7 DATE: 8-19-02
SAMPLE TYPE: NA FIELD CREW: DQ TIME Start: 1115 End 1220
WEATHER: SKY: P.C PRECIP: ϕ WIND: 10 Air Temp. 50

GROUNDWATER : DEVELOPMENT X SAMPLING ____

Well Condition: NEW
Casing Ht. Above Ground: Flush (FT.) Diameter: 2 in.
Well Depth: 19.02 ft. BTOC (Meas./Rec.) Static Water Level: 14.01 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3x purge = ≈ 9.5 gal
ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= 3.80 gal.

PURGING:	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*	
METHOD	0	1115	4.5	403.2	6.99	Very Dark
	2	1118	4.3	424.4	6.86	Petrol Odor
Bailer	4	1120	3.1	418.5	6.89	Very Dark
	5	1125	2.7	406.7	6.81	
Ded. Pump	10	1140	2.9	402.6	6.80	
	15	1155	2.9	402.8	6.91	Clearing Slightly
Suction Pump	20	1205	2.9	400.0	6.96	
Purger Pump	25	1215	2.9	396.7	6.98	
(other)						

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: ____ Width: ____ Velocity: ____ Flow: ____ cfs (Est./Meas.)
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____

SAMPLE COLLECTION

Method: ____ Appearance: ____

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split ____ Dupl. ____ Trip Blank ____ Other ____
** METALS FIELD FILTERED: ____ . PHOTO TAKEN # ____
Calibration/Standard: pH 4,7,10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8/19/02
REMARKS: Very Good Producer

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-7 DATE: 8-20-02
SAMPLE TYPE: Grab FIELD CREW: DO TIME Start: 1320 End 1410
WEATHER: SKY: PRECIP: 0 WIND: 20 Air Temp. 30

GROUNDWATER : DEVELOPMENT ____ SAMPLING X

Well Condition: NEW
Casing Ht. Above Ground: FLUSH (FT.) Diameter: 2 in.
Well Depth: 19.02 ft. BTOC (Meas./Rec.) Static Water Level: 14.02 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3x Purge Vol: ~2.5 gal

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= .80 gal.

PURGING:	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
METHOD	0	1320	2.8	364.9	7.73
	2	1325	2.3	400.4	7.40
Bailer	4	1330	2.1	412.4	7.12
	5	1340	2.1	421.0	7.00
Ded. Pump	7	1350	2.1	397.1	6.73
	10	1400	2.1	398.6	6.75
Suction Pump					
Bailer					
(other)					

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: ____ Width: ____ Velocity: ____ Flow: ____ cfs (Est./Meas.)
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____

SAMPLE COLLECTION 02NE88GW007 (MS/MSD ALL ANALYTES)
Method: Teflon Bailer (Disposible) Appearance: Gray - Petrol Odor

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1400				
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split ____ Dupl. ____ Trip Blank 8-19-02 Other ____
** METALS FIELD FILTERED: ____ . PHOTO TAKEN # ____ 2100 - 02NE88GW007
Calibration/Standard: pH 4,7,10 EC ✓ DO NA CO2 NA
Decon completed: by DO date 8-20-02
REMARKS: Very Good Recovery

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-8 DATE: 8-19-02
SAMPLE TYPE: NA FIELD CREW: DQ TIME Start: 1230 End 1420
WEATHER: SKY: P.C. PRECIP: Ø WIND: 10 Air Temp. 52

GROUNDWATER : DEVELOPMENT __X__ SAMPLING _____

Well Condition: NEW
Casing Ht. Above Ground: Flush (FT.) Diameter: 2 in.
Well Depth: 18.70 ft. BTOC (Meas./Rec.) Static Water Level: 14.57 ft. BTOC
Casing (C) = _____ Well _____ Outside Protective

3 x purge = 2 gal

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= .7 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*	
	0	1230	4.2	412.3	7.75	Very Dark Petrol Odor Sheen
	1	1235	3.9	477.7	7.13	
Bailer	2	1237	2.9	466.9	7.18	
	3 dry	1240	2.9	458.1	7.05	
Ded. Pump	3+ dry	1245	2.9	459.0	6.74	
	4 dry	1255	2.9	453.8	6.73	
Suction Pump	5 dry	1320	2.9	397.4	7.06	
Purge Pump	6 dry	1340	3.1	380.6	[illegible]	
(other)	7 dry	1400	3.0	380.2	[illegible]	

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: _____ Width: _____ Velocity: _____ Flow: _____ cfs (Est./Meas.)
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____

SAMPLE COLLECTION

Method: _____ Appearance: _____

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split _____ Dupl. _____ Trip Blank _____ Other _____
** METALS FIELD FILTERED: _____ . PHOTO TAKEN # _____
Calibration/Standard: pH 4, 7, 10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8/19/02
REMARKS: Green, Very Turbid Dark Gray, Petrol Odor

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-8 DATE: 8-20-02
SAMPLE TYPE: GRAB FIELD CREW: MD TIME Start: 1420 End 1515
WEATHER: SKY: P.C. PRECIP: 0 WIND: 20 Air Temp. 50

GROUNDWATER : DEVELOPMENT _____ SAMPLING X

Well Condition: NEW
Casing Ht. Above Ground: Flush (FT.) Diameter: 2 in.
Well Depth: 18.70 ft. BTOC (Meas./Rec.) Static Water Level: 14.60 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3 x purg = 2 gal

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= .7 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
Bailer	0	1420	2.9	380.1	6.99
	1	1430	2.8	374.9	6.83
	2 dry	1445	2.8	402.4	6.79
	24 dry	1500	2.8	401.6	6.77
Ded. Pump					
Suction Pump					
Purge Pump (other)					

Turbidity > 1,000 NTU
DO NA > 20 mg/L
CO_2 NA > 700 mg/L

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: ____ Width: ____ Velocity: ____ Flow: ____ cfs (Est./Meas.)
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____

SAMPLE COLLECTION 02NE88GW008

Method: Teflon Bailer (Disposible) Appearance: Dark Gray, Sheen, Petrol Odor

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1500				
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split ____ Dupl. ____ Trip Blank 8/19/02 Other ____
** METALS FIELD FILTERED: ____ . PHOTO TAKEN # 2100 - 02NE88TB003
Calibration/Standard: pH 4, 7, 10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8-19-02
REMARKS:

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-9 DATE: 8-20-02
SAMPLE TYPE: NA FIELD CREW: DQ TIME Start: 1530 End 1650
WEATHER: SKY: P.C. PRECIP: 0 WIND: 20 Air Temp. 50

GROUNDWATER : DEVELOPMENT X SAMPLING _____

Well Condition: NEW
Casing Ht. Above Ground: Flush (FT.) Diameter: 2 in.
Well Depth: 24.45 ft. BTOC (Meas./Rec.) Static Water Level: 20.24 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3x Purge ≈ 2gal
ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= .7 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*	
	0	1530	5.0	142.3	7.57	Dark Brown/ft
	2	1534	3.3	119.7	7.54	
Bailer	4	1540	2.3	106.10	7.23	
	5	1543	3.2	101.6	7.09	
Ded. Pump	7	1547	2.6	91.7	6.98	
	9	1550	2.3	88.0	6.54	
Suction Pump	10	1555	2.3	85.8	6.46	
Perger Pump	15	1605	2.3	86	6.45	Clearing Skin
(other)	80	1620/1640	2.3	83.3	6.38	Still

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: _____ Width: _____ Velocity: _____ Flow: _____ cfs (Est./Meas.)
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____

SAMPLE COLLECTION

Method: _____ Appearance: _____

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
				Density	
Methane/Ethane/ Ethene RSK175				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split _____ Dupl. _____ Trip Blank _____ Other _____
** METALS FIELD FILTERED: _____ . PHOTO TAKEN # _____
Calibration/Standard: pH 4,7,10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8/20/02
REMARKS: Best Producer of all New Wells - NO Odor, No Sheen, Tan Turbidity vs. Dark Grey at all other locations.

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-9 DATE: 8-21-02
SAMPLE TYPE: Grab FIELD CREW: DQ TIME Start: 1430 End 1520
WEATHER: SKY: Nice (Clear) PRECIP: Ø WIND: 20 Air Temp. 50

GROUNDWATER : DEVELOPMENT _____ SAMPLING X

Well Condition: NEW
Casing Ht. Above Ground: Flush (FT.) Diameter: 2 in.
Well Depth: 24.45 ft. BTOC (Meas./Rec.) Static Water Level: 20.22 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3 x purge ≈ 2 gal

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= .7 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
	0	1430	4.6	92.9	8.00
	1	1435	2.7	88.1	7.62
Bailer	2	1440	2.6	87.1	7.41
	3	1442	2.3	85.4	7.15
Ded. Pump	4	1445	2.3	84.8	6.97
	5	1450	2.3	84.7	6.96
Suction Pump	10	1500	2.3	81.9	6.82
Purge Pump					
(other)					

Turbidity 220 NTU
DO 4.1 mg/L
CO_2 1.9 mg/L

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel ~~Depth~~: _____ Width: _____ Velocity: _____ Flow: _____ cfs (Est./Meas.)
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____

SAMPLE COLLECTION 02NE88GW009

Method: Teflon Bailer (Disposible) Appearance: Tan - No SHEEN, NO ODOR

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1400				
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
				Density	
Methane/Ethane/ Ethene RSK175				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split _____ Dupl. _____ Trip Blank 8.19.02 Other _____
** METALS FIELD FILTERED: _____ . PHOTO TAKEN # _____ 2400 - 02NE88TB003
Calibration/Standard: pH 4,7,10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8-21-02
REMARKS: Tan Turbidity unlike any of the other MW88 series wells. No Sheen, No Odor

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING
FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-10 DATE: 8-28-02
SAMPLE TYPE: NA FIELD CREW: DQ TIME Start: 1630 End 1850
WEATHER: SKY: PC. PRECIP: 0 WIND: 20 Air Temp. 50

GROUNDWATER : DEVELOPMENT X SAMPLING _____

Well Condition: NEW
Casing Ht. Above Ground: Flush (FT.) Diameter: 2 in.
Well Depth: 26.60 ft. BTOC (Meas./Rec.) Static Water Level: 24.29 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3X purge ≈ 3/4 gal

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)=_____gal.

PURGING:	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
METHOD	0	1630	3.6	382.1	6.02
	0.5 dry	1700	No WATER		
Bailer	0.5+ dry	1800	No Water / about 2cm of Mud		
Ded. Pump					
Suction Pump					
(other)					

* TEMP. CORRECTED @ 25C

Dark Gray, Muddy, Silty, Sheen, Petrol Odor.

SURFACE WATER

Channel Depth:_____ Width:_____ Velocity:_____ Flow:_____cfs (Est./Meas.)
Temp: _____ E.C: *_____ pH:*_____ Redox (eH):_____
Temp: _____ E.C: *_____ pH:*_____ Redox (eH):_____

SAMPLE COLLECTION

Method:_____ Appearance: _____

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split_____ Dupl._____ Trip Blank_____ Other_____
** METALS FIELD FILTERED: _____. PHOTO TAKEN #_____
Calibration/Standard: pH 4, 7, 10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8/20/02
REMARKS: Very thick, Muddy Silty Water, Wont Dry May not be able to Sample, will sample directly tomorrow w/ minimal purge.

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-10 DATE: 8-21-00
SAMPLE TYPE: Grab FIELD CREW: DG TIME Start: 1400 End 1740
WEATHER: SKY: Nice Day / Clear P.C. PRECIP: Ø WIND: 20 Air Temp. 50

GROUNDWATER : DEVELOPMENT _____ SAMPLING X

Well Condition: NEW
Casing Ht. Above Ground: Flush (FT.) Diameter: 2 in.
Well Depth: 26.00 ft. BTOC (Meas./Rec.) Static Water Level: 24.98 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3x purge = 0.5 gal

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)=_____gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
	0	1400	3.6	422.1	7.66
Bailer		All Water Collected Used for Sample			
		Well is essentially dry			
Ded. Pump					
Suction Pump					
(other)					

Turbidity >1,000 NTU
DO NA > Too Turbid
CO_2 NA

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: _____ Width: _____ Velocity: _____ Flow: _____ cfs (Est./Meas.)
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____

SAMPLE COLLECTION 02NESBGW010

Method: Teflon Bailer Appearance: Very Turbid almost muddy, negligible recharge.

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1400				
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split _____ Dupl. _____ Trip Blank 8-19-02 Other _____
** METALS FIELD FILTERED: _____. PHOTO TAKEN # 2100 - 02NESBGW010
Calibration/Standard: pH 4, 7, 10 EC ✓ DO NA CO2 NA
Decon completed: by DG date
REMARKS: Very slow in obtaining sample volume. After initial bailer maximum of 1-2 inches muddy water available. Sample collected from 1400 to 1730.

CAMERON
ENVIRONMENTAL, INC.
20741 Manhattan Place Torrance, CA 90501
Tel: 310.212.0610 ◆ Fax: 310.212.7222

Activated Carbon, Pollution Control Systems and Waste Management Services

Non-Hazardous Spent Carbon Profile Form

A. Generator Information

1. Generating Facility: Northeast Cape
2. Site Address: St Lawrence Is. Alaska
3. Generator Technical Representative: Lisa Quist
   Phone # (907) 753-5742
   Fax # (907) 753-5626
4. Reactivation Facility: California Carbon, 2825 E. Grant St., Wilmington, CA

B. Spent Carbon Characterization:

The generator certifies that the spent carbon is classified as non-hazardous waste as defined by U.S.EPA regulations under the Regulatory Conservation and Recovery Act (RCRA); as set forth in 40CFR, Part 261.

C. Generator Certification

I hereby certify that, to the best of my knowledge, all information submitted in this and all attached documents is true and accurate, and that all known or suspected chemical contaminants and potential hazards have been disclosed.

for MWH c/o USACE

Signature

8-29-02
Date

Name (please print)

Title

1 - 55gal
1 - 5gal

Boring # - MW 88-1 | Project- NEC Phase III RI | Client- USACE | Date- 8/14/02

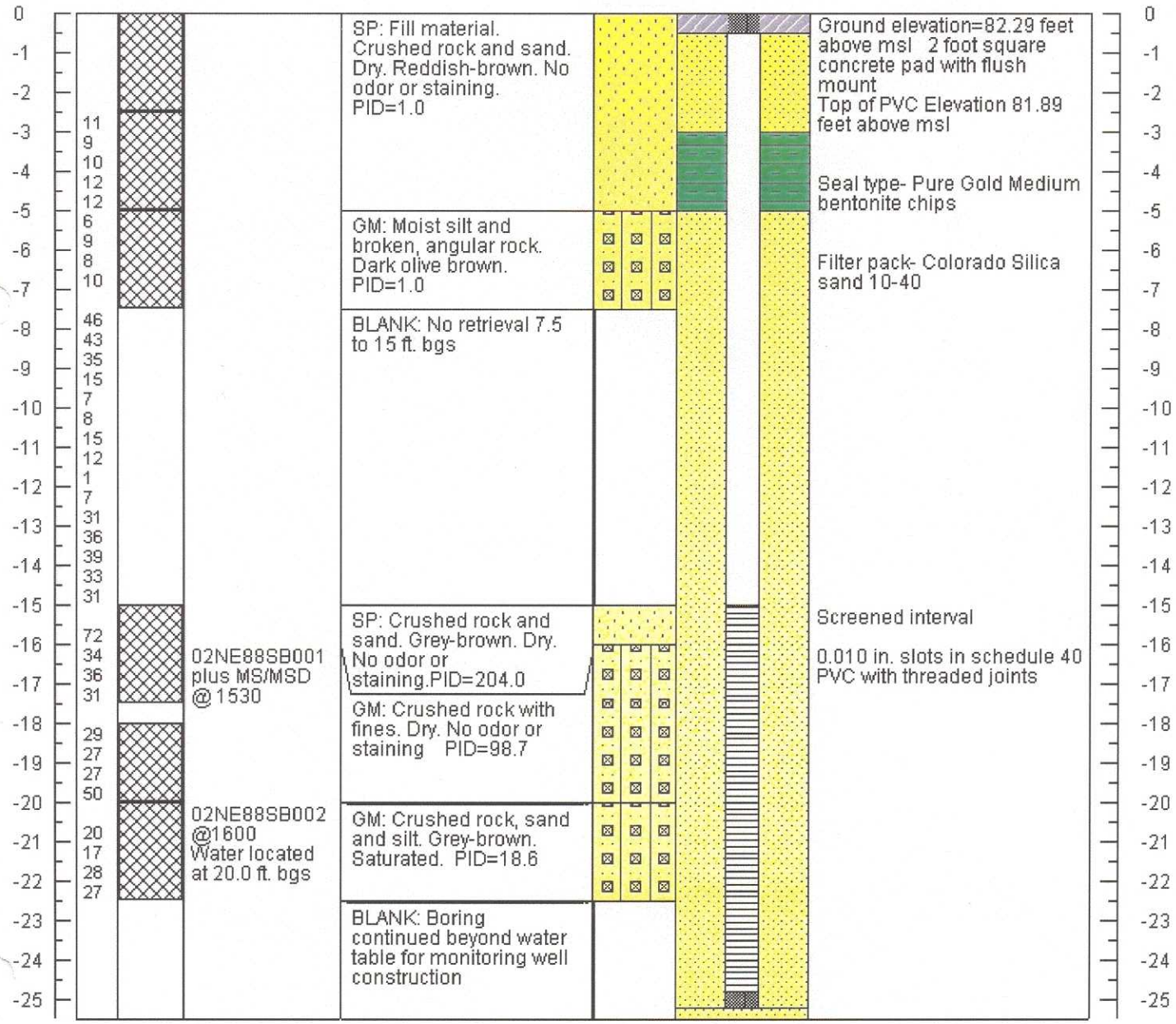
Boring Size- 8.25 in | AK State Plane Coordinates- 96392.8914 / 98080.4492 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 22.5 ft | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 82.29 ft



Boring # - MW 88-2 | Project- NEC Phase III RI | Client- USACE | Date- 8/14/02

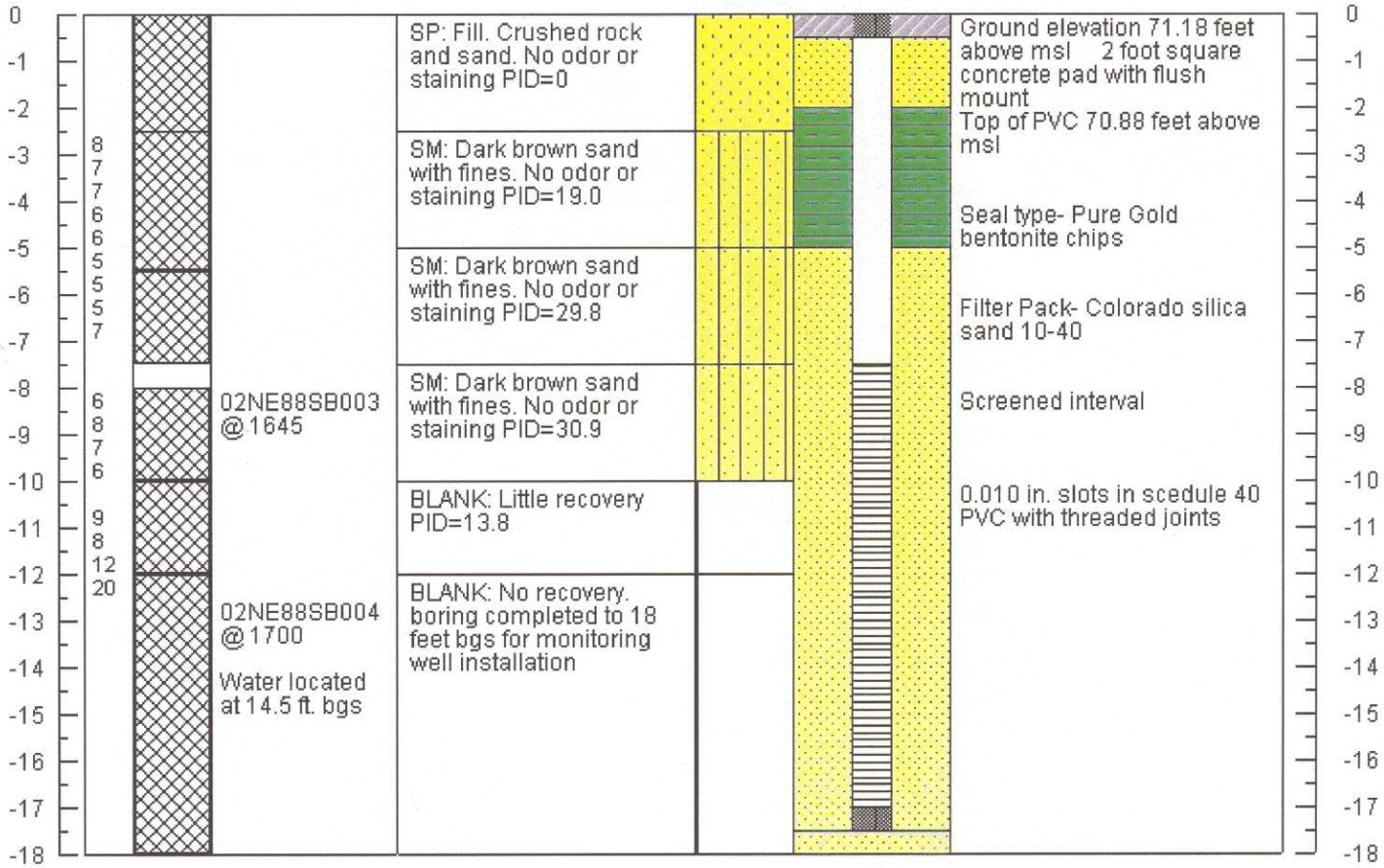
Boring Size- 8.25 in | AK State Plane Coordinates- 96455.0726 / 98257.8812 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 18 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 71.18 ft.



Boring # - MW 88-3 | Project- NEC Phase III RI | Client- USACE | Date- 8/15/02

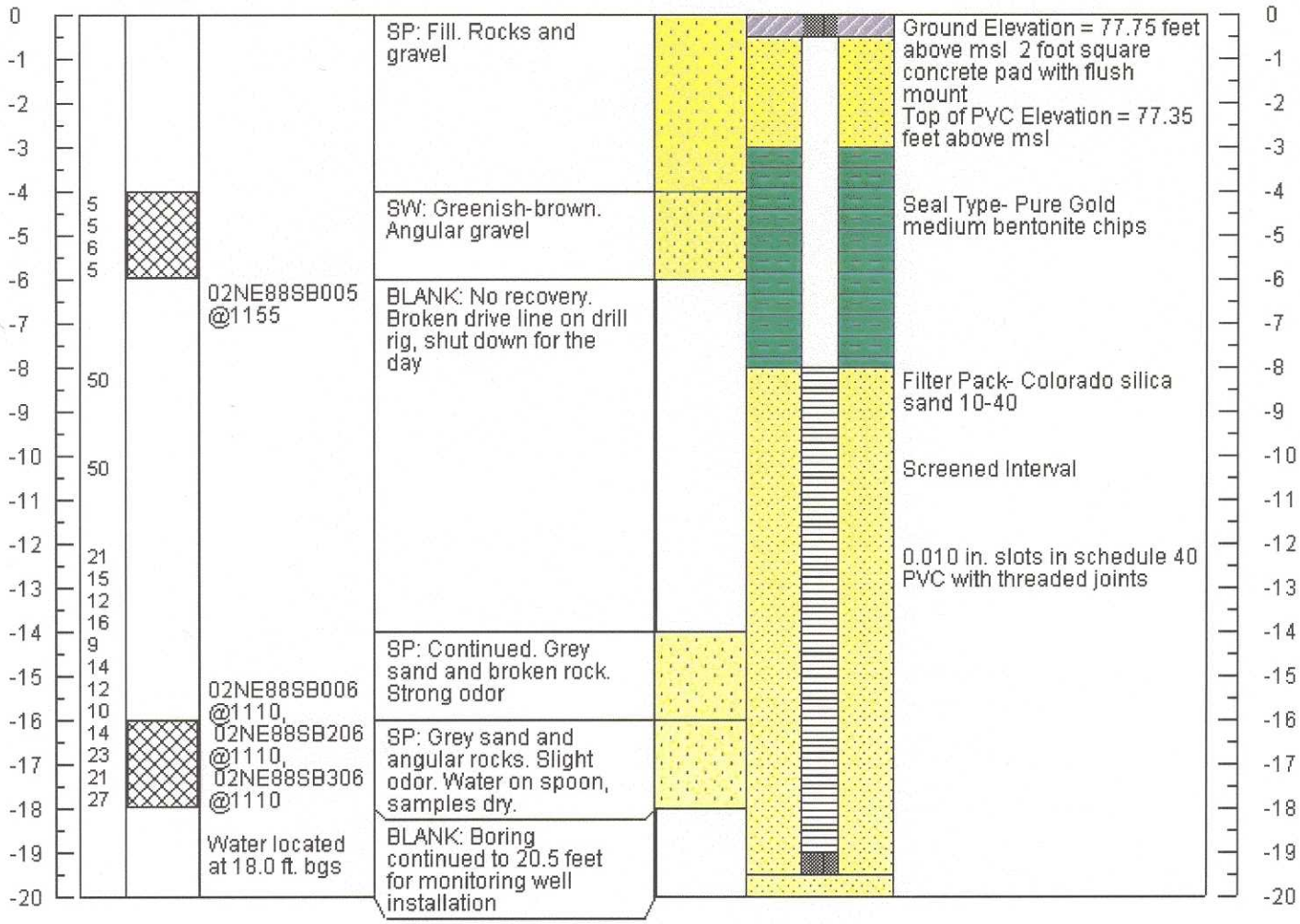
Boring Size- 8.25 in | AK State Plane Coordinates- 96458.3585 / 98169.9401 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 20 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 77.75 ft.



Boring # - MW 88-4 | Project- NEC Phase III RI | Client- USACE | Date- 8/14/02

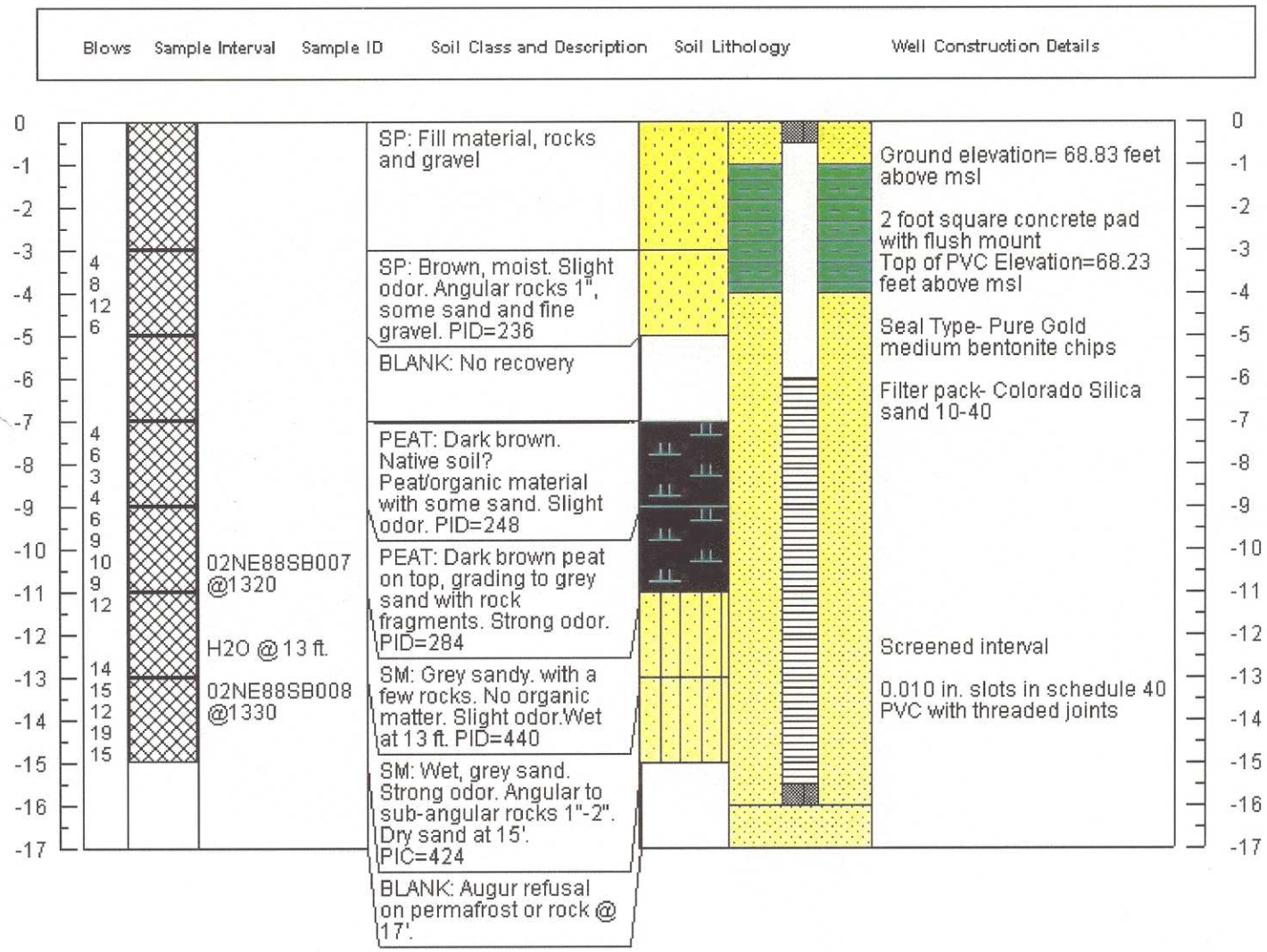
Boring Size- 8.25 in | AK State Plane Coordinates- 96331.1320 / 98365.8078 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 17 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 68.63 ft.



Boring # - MW 88-5 | Project- NEC Phase III RI | Client- USACE | Date- 8/17/02

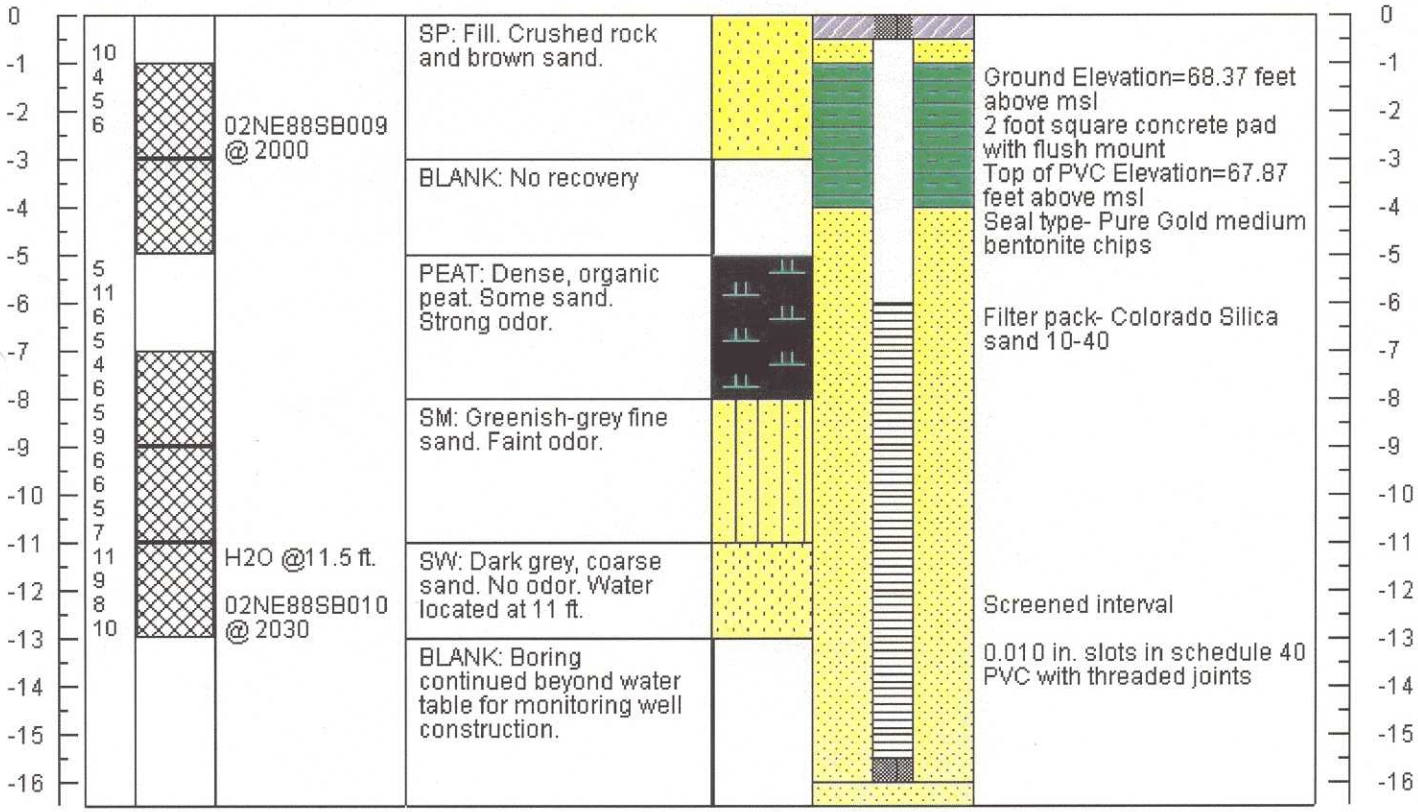
Boring Size- 8.25 in | AK State Plane Coordinates- 96216.7210 / 98292.1088 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 16.5 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 68.37 ft.



Boring # - MW 88-6 | Project- NEC Phase III RI | Client- USACE | Date- 8/18/02

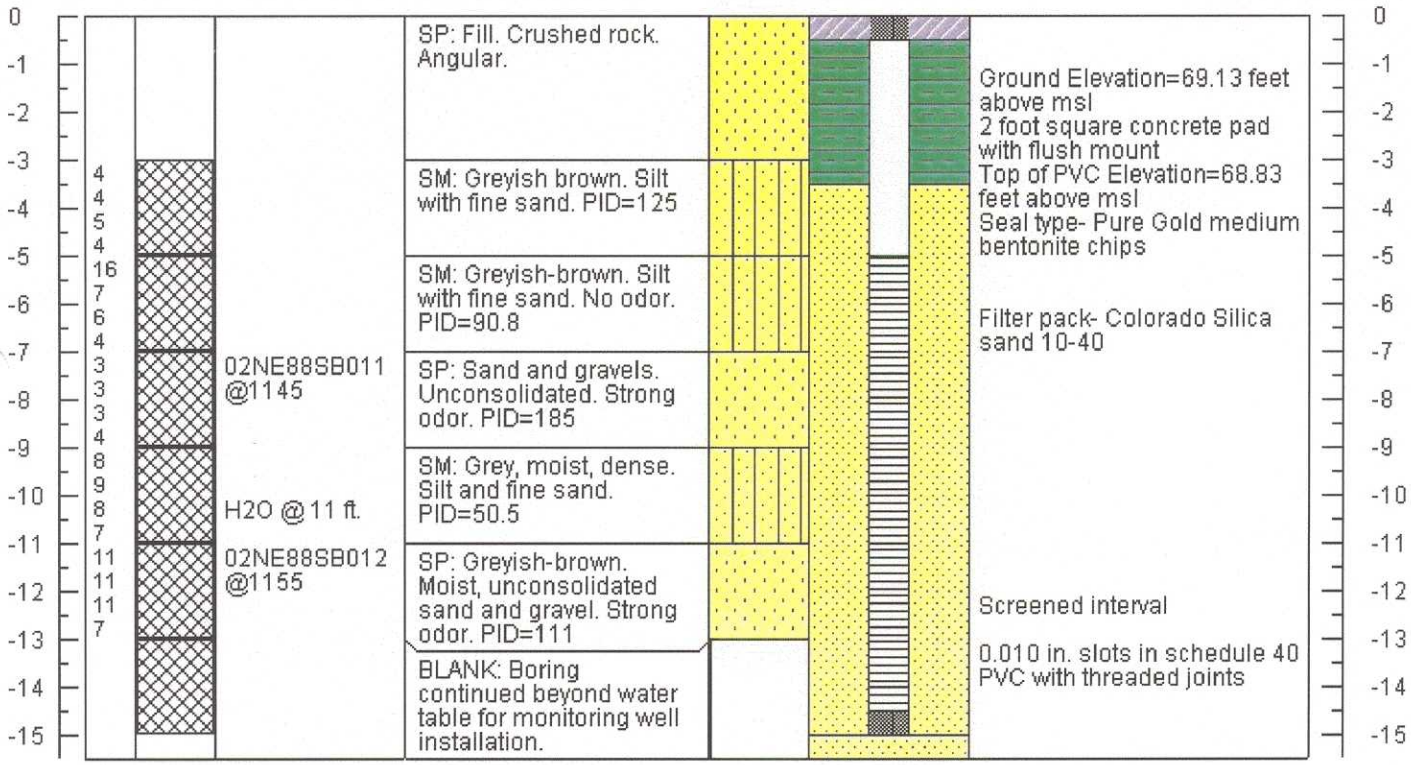
Boring Size- 8.25 in | AK State Plane Coordinates- 96140.494 / 98271.8042 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 15.5 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 69.13 ft.



Boring # - MW 88-7 | Project- NEC Phase III RI | Client- USACE | Date- 8/18/02

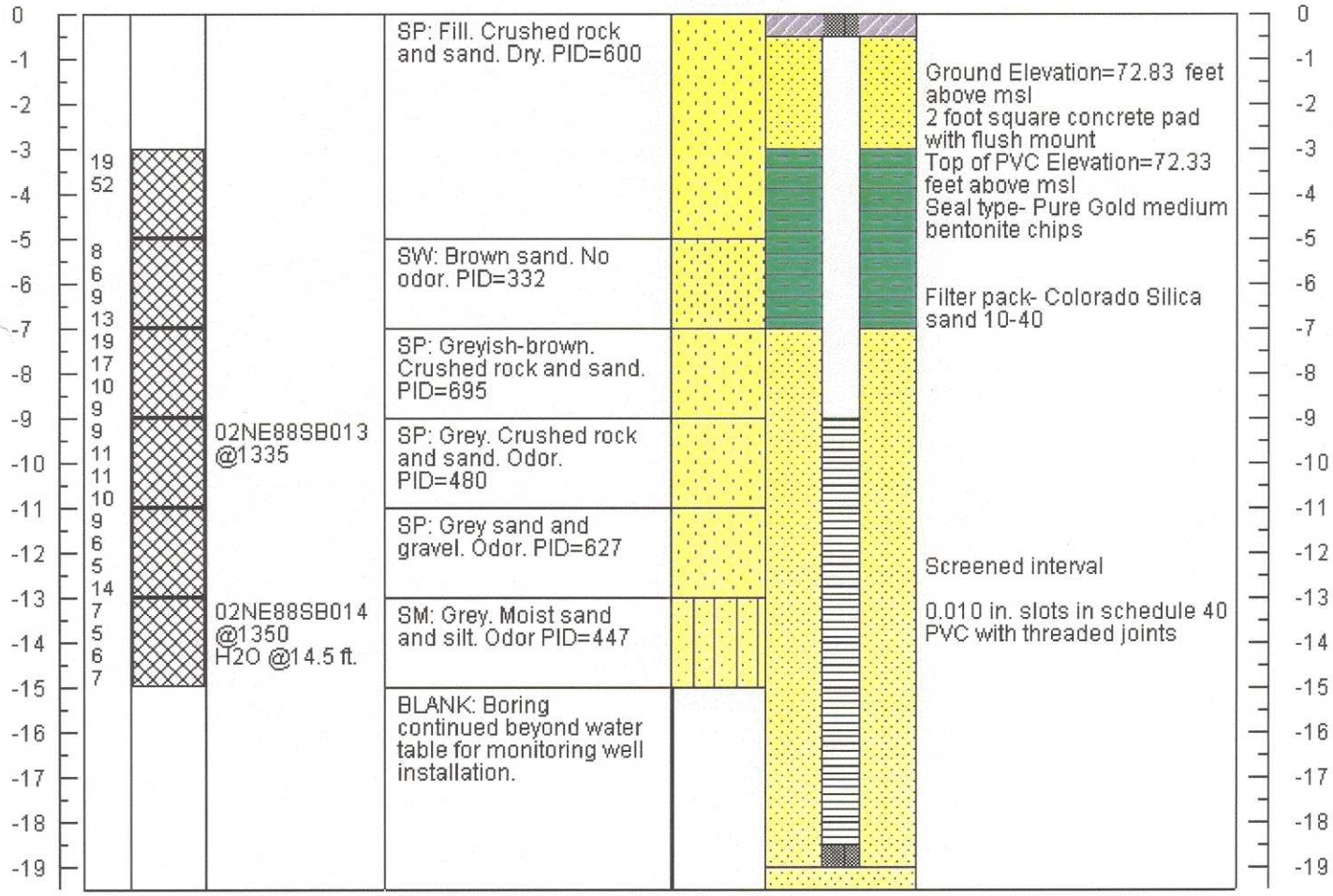
Boring Size- 8.25 in | AK State Plane Coordinates- 96033.1581 / 98271.2457 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 19.5 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 72.83 ft.



Boring # - MW 88-8 | Project- NEC Phase III RI | Client- USACE | Date- 8/18/02

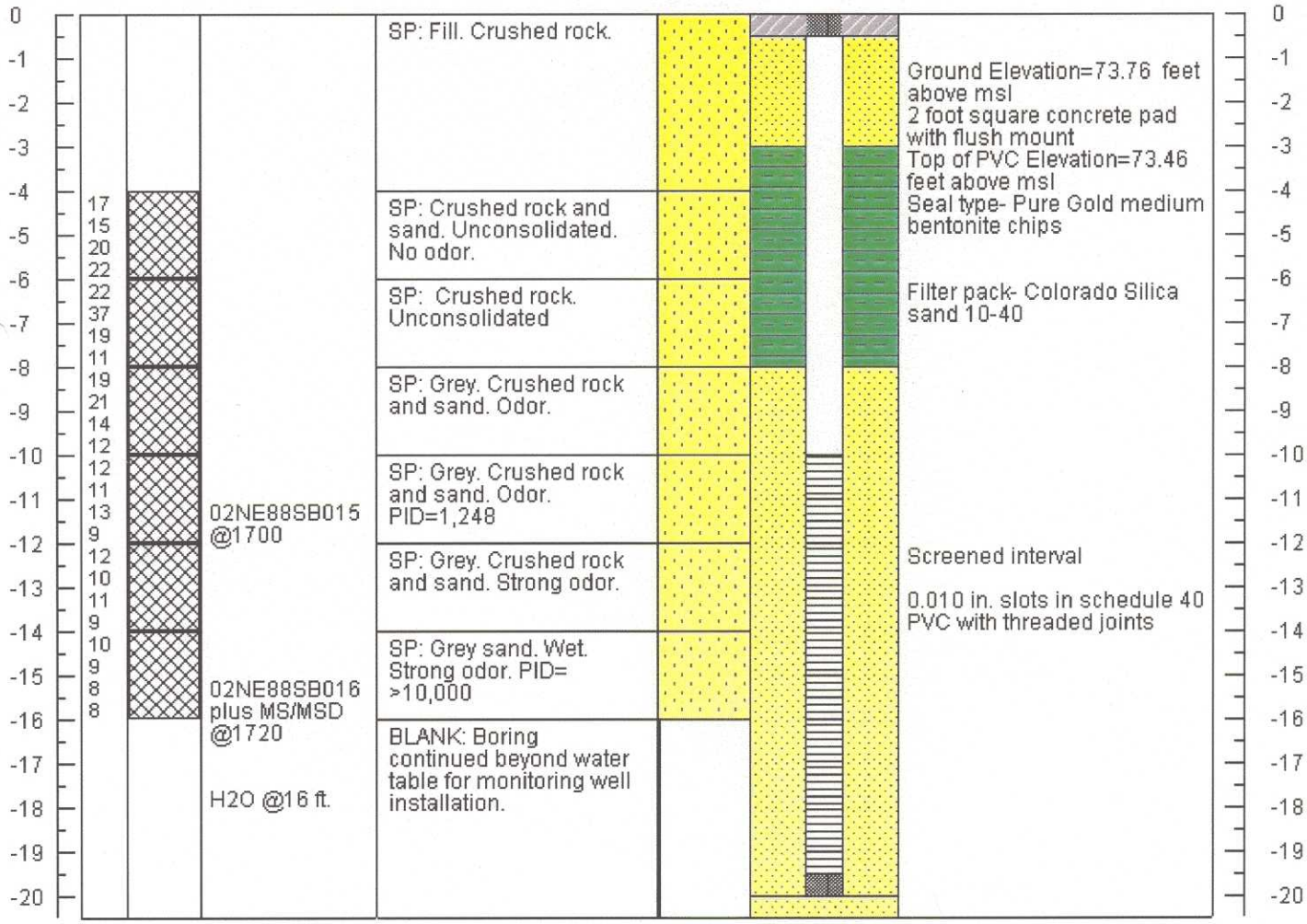
Boring Size- 8.25 in | AK State Plane Coordinates- 96083.4849 / 98185.9420 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 20.5 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 73.76 ft.



Boring # - MW 88-9 | Project- NEC Phase III RI | Client- USACE | Date- 8/19/02

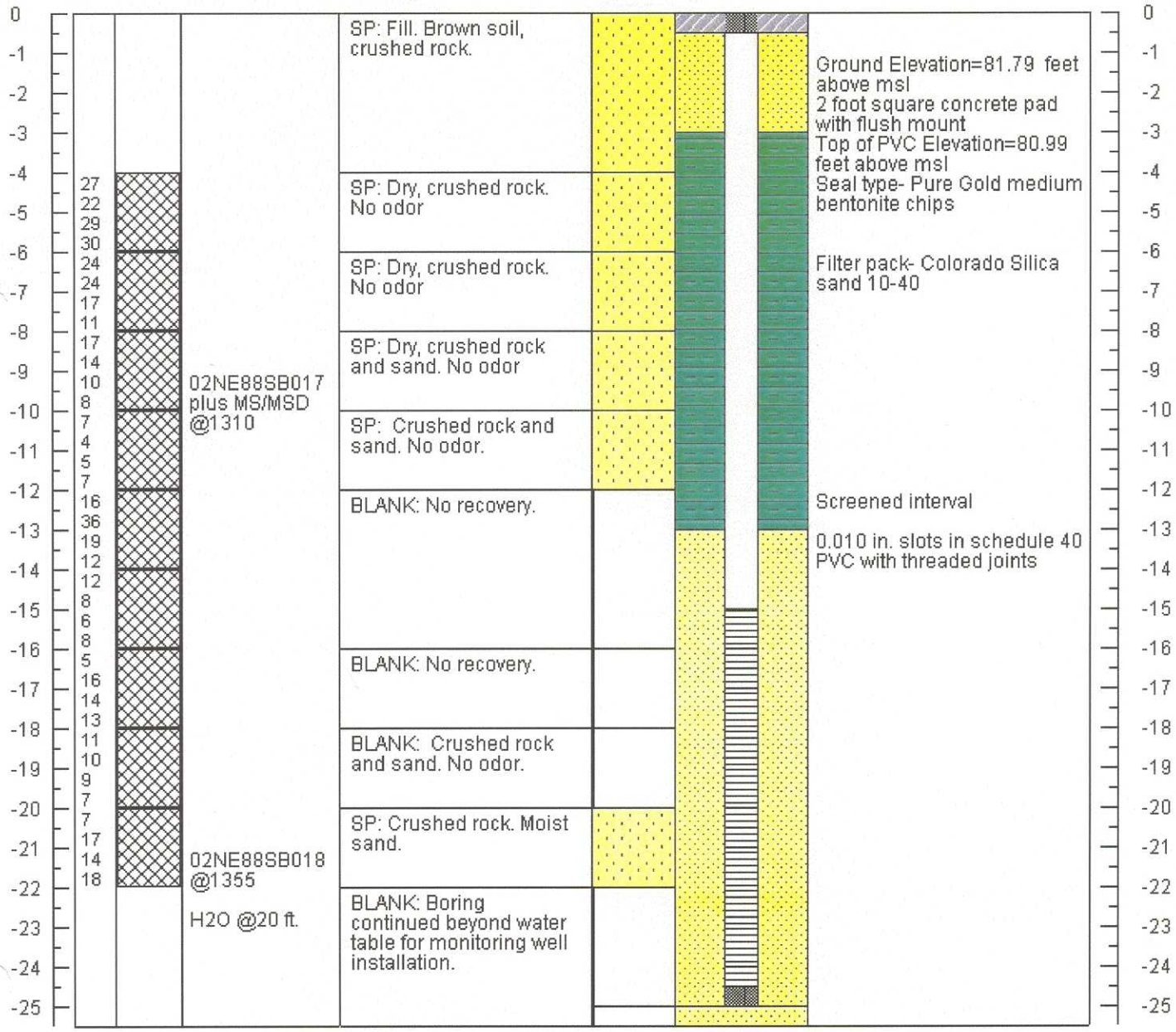
Boring Size- 8.25 in | AK State Plane Coordinates- 96154.1887 / 98.44.5023 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 25 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 81.79 ft.



Boring # - MW 88-10 | Project- NEC Phase III RI | Client- USACE | Date- 8/19/02

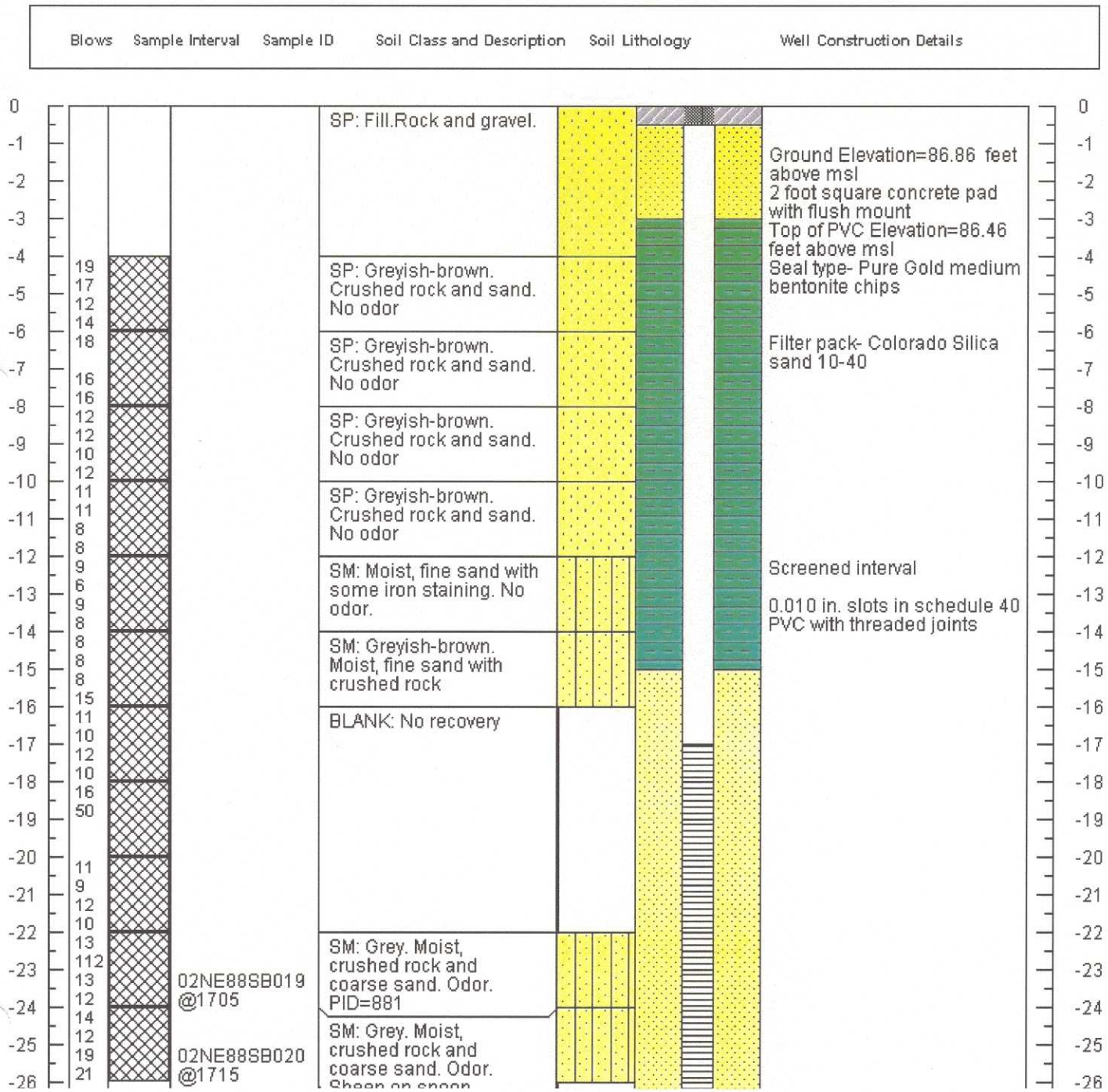
Boring Size- 8.25 in | AK State Plane Coordinates- 96293.0099 / 97970.2989

Drilling Method- Hollow Stem Augur | Northing / Easting

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 27.5 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 86.86 ft.



Boring # - SB 88-11 | Project- NEC Phase III RI | Client- USACE | Date- 8/17/02

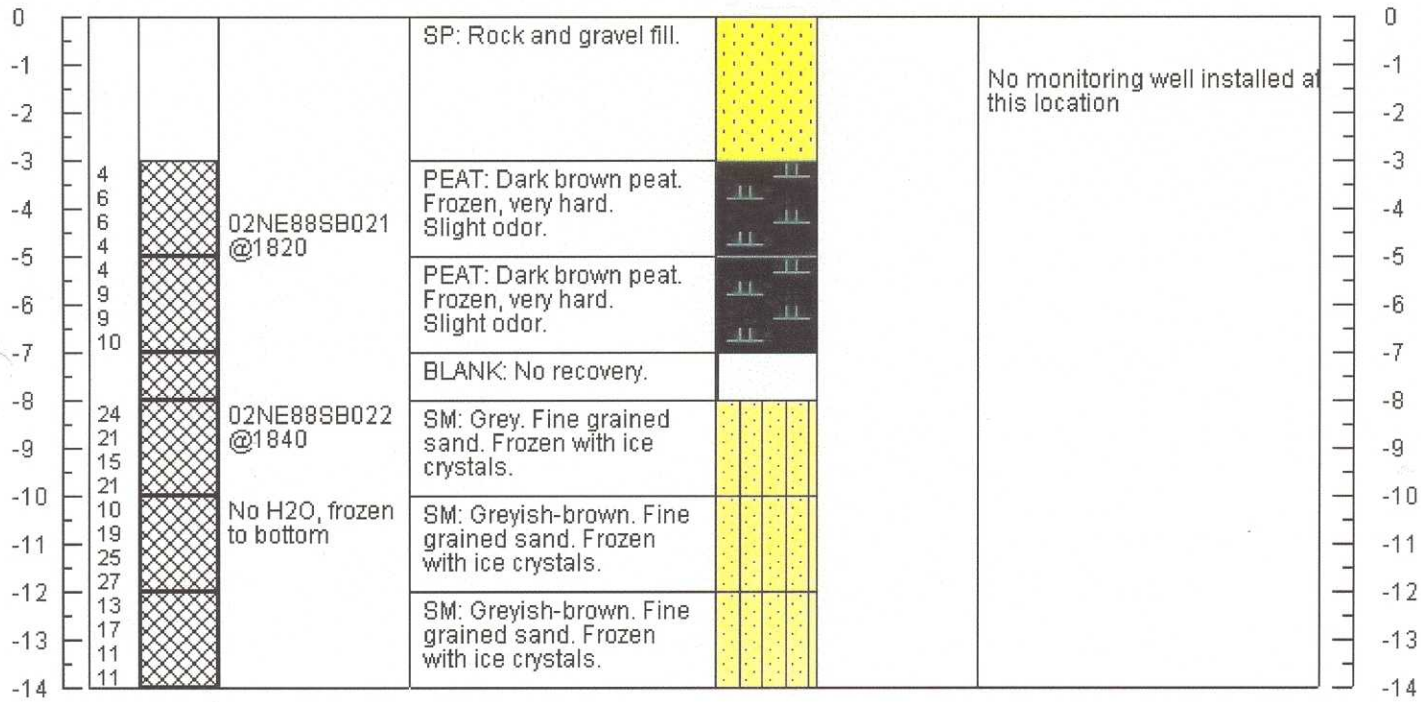
Boring Size- 8.25 in | AK State Plane Coordinates- 96241.8412 / 98320.2355

Drilling Method- Hollow Stem Augur | Northing / Easting

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 14 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 66.84 ft.



Boring # - SB 88-12 | Project- NEC Phase III RI | Client- USACE | Date- 8/20/02

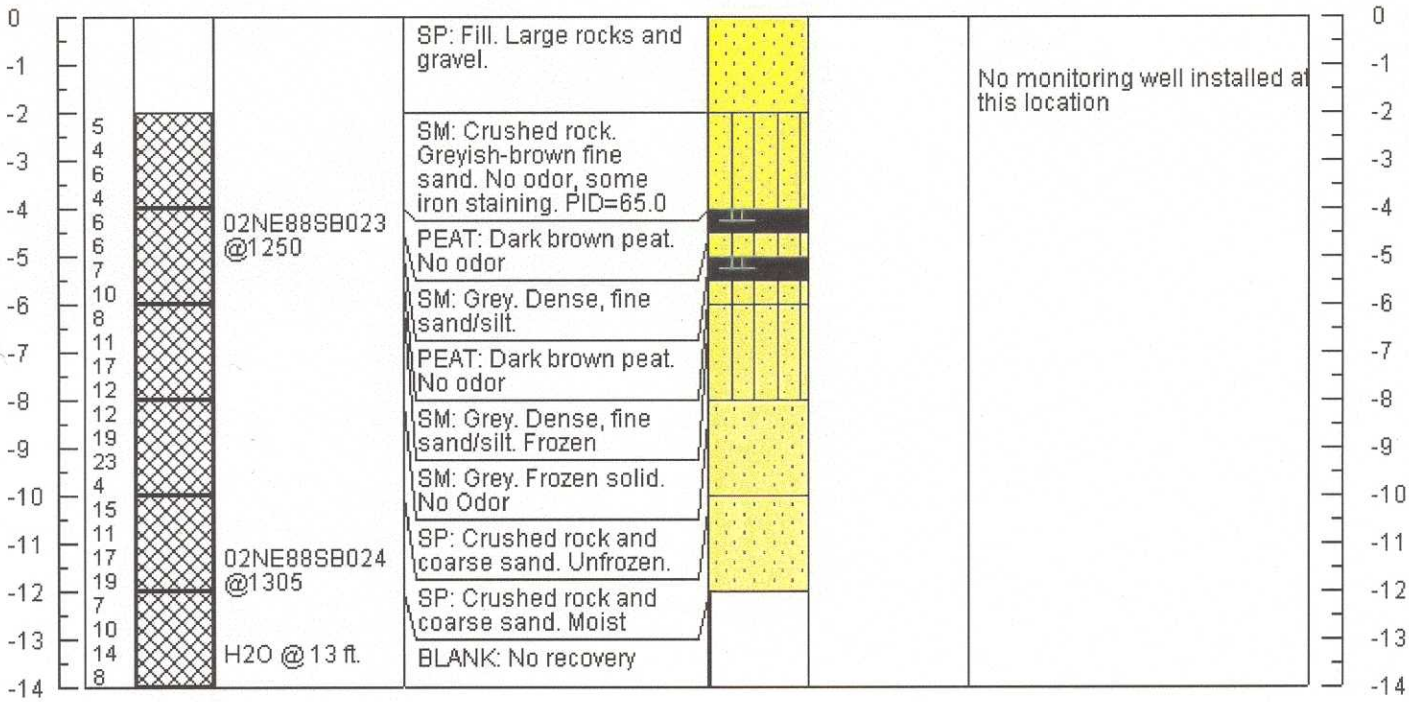
Boring Size- 8.25 in | AK State Plane Coordinates- 96398.0750 / 98329.8776 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 14 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 69.71 ft.



Boring # - SB 88-13 | Project- NEC Phase III RI | Client- USACE | Date- 8/20/02

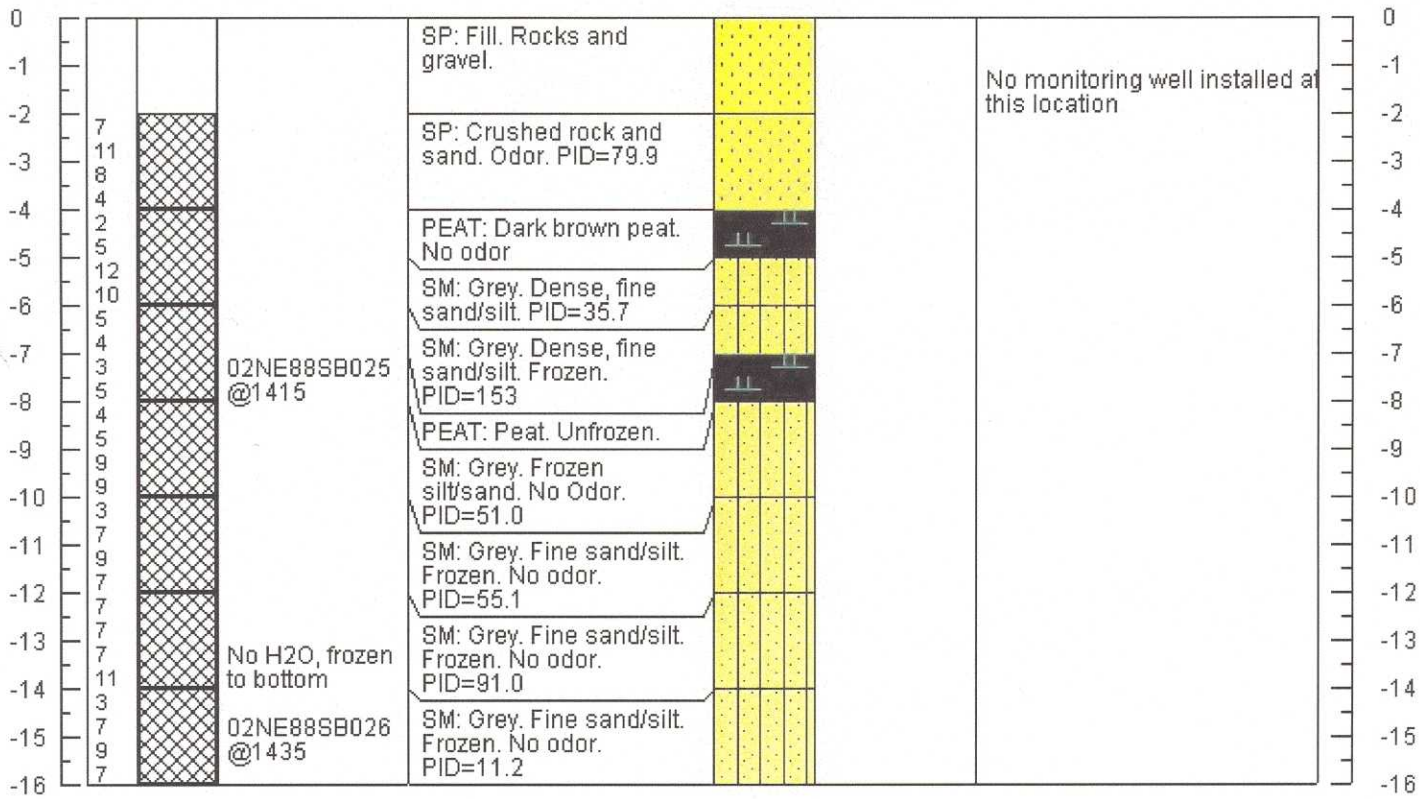
Boring Size- 8.25 in | AK State Plane Coordinates- 96341.1182 / 98303.2553 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 16 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 69.51 ft.



Boring # - SB 88-14 | Project- NEC Phase III RI | Client- USACE | Date- 8/20/02

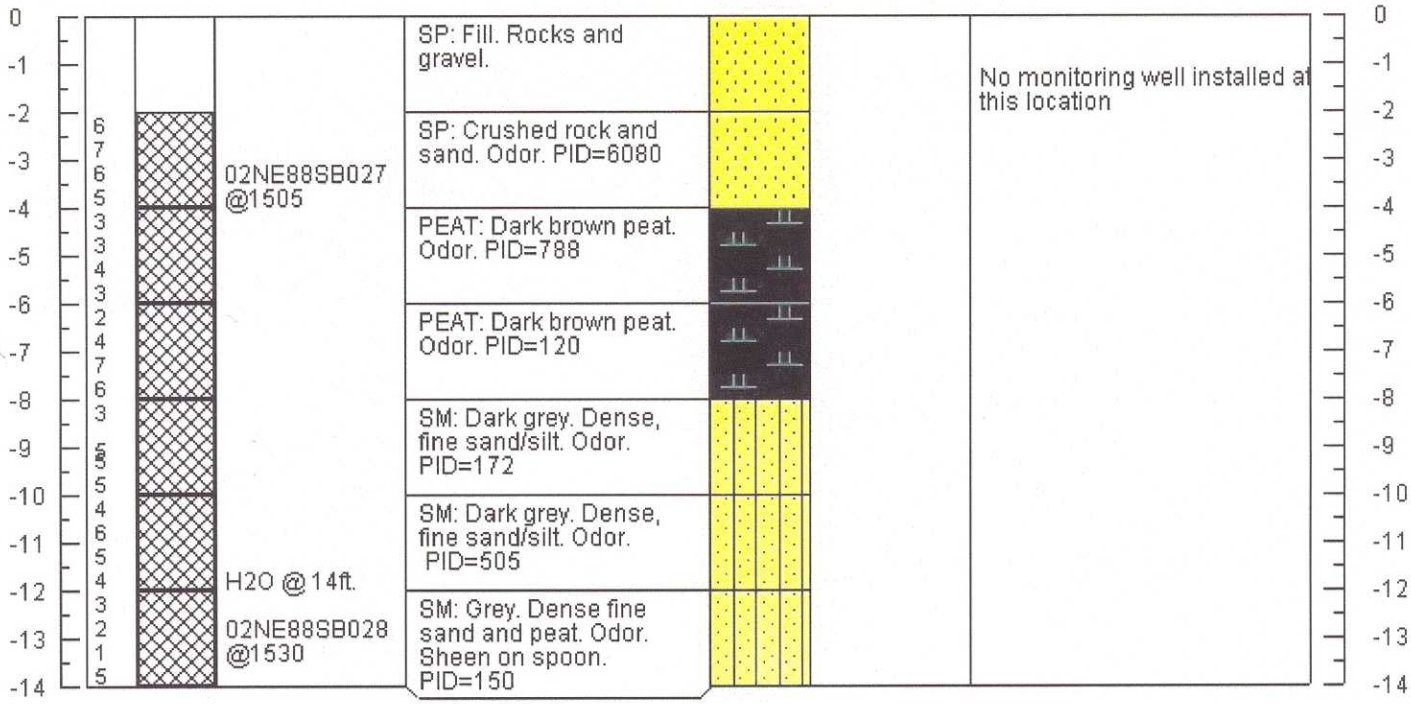
Boring Size- 8.25 in | AK State Plane Coordinates- 96251.2105 / 98292.8032 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 14 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 67.11 ft.



Boring # - SB 88-15 | Project- NEC Phase III RI | Client- USACE | Date- 8/20/02

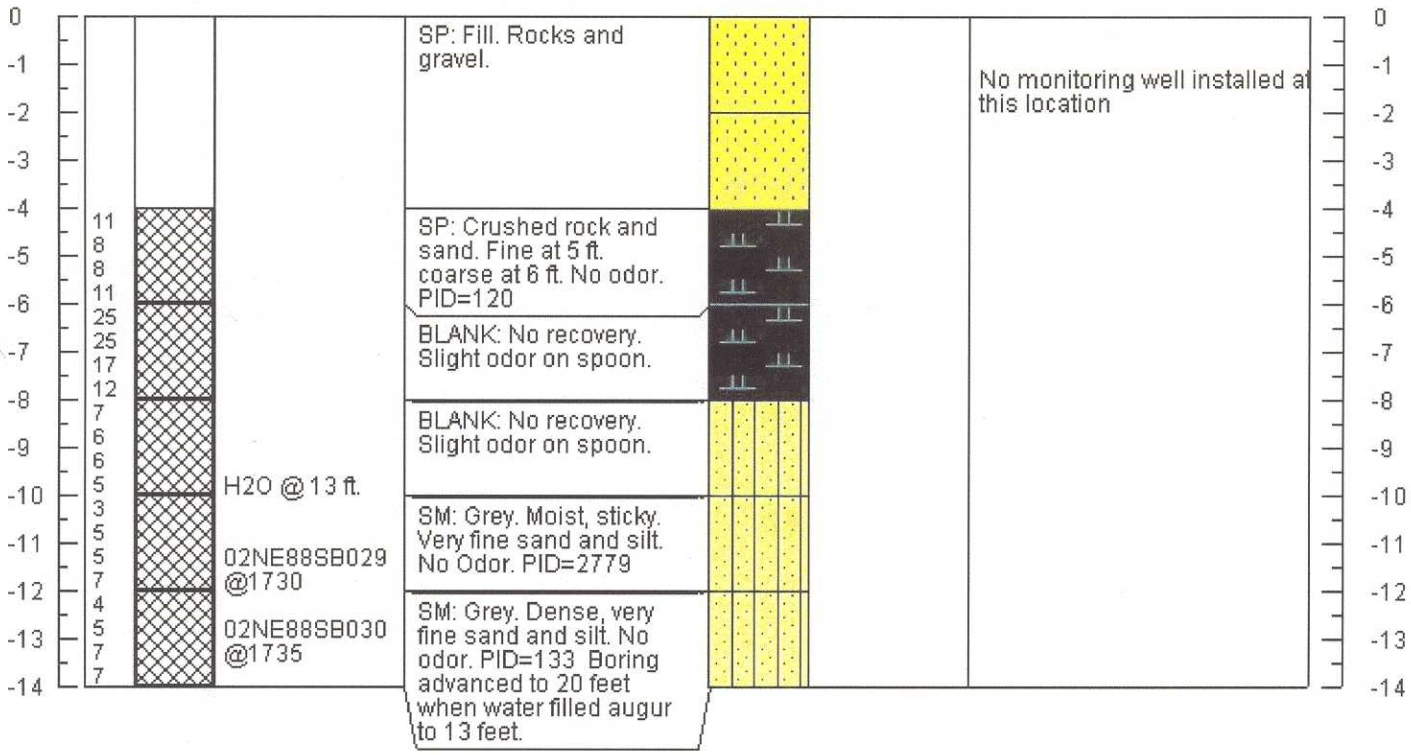
Boring Size- 8.25 in | AK State Plane Coordinates- 96253.7345 / 98224.4465 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 14 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 71.21 ft.



Boring # - SB 88-16 | Project- NEC Phase III RI | Client- USACE | Date- 8/20/02

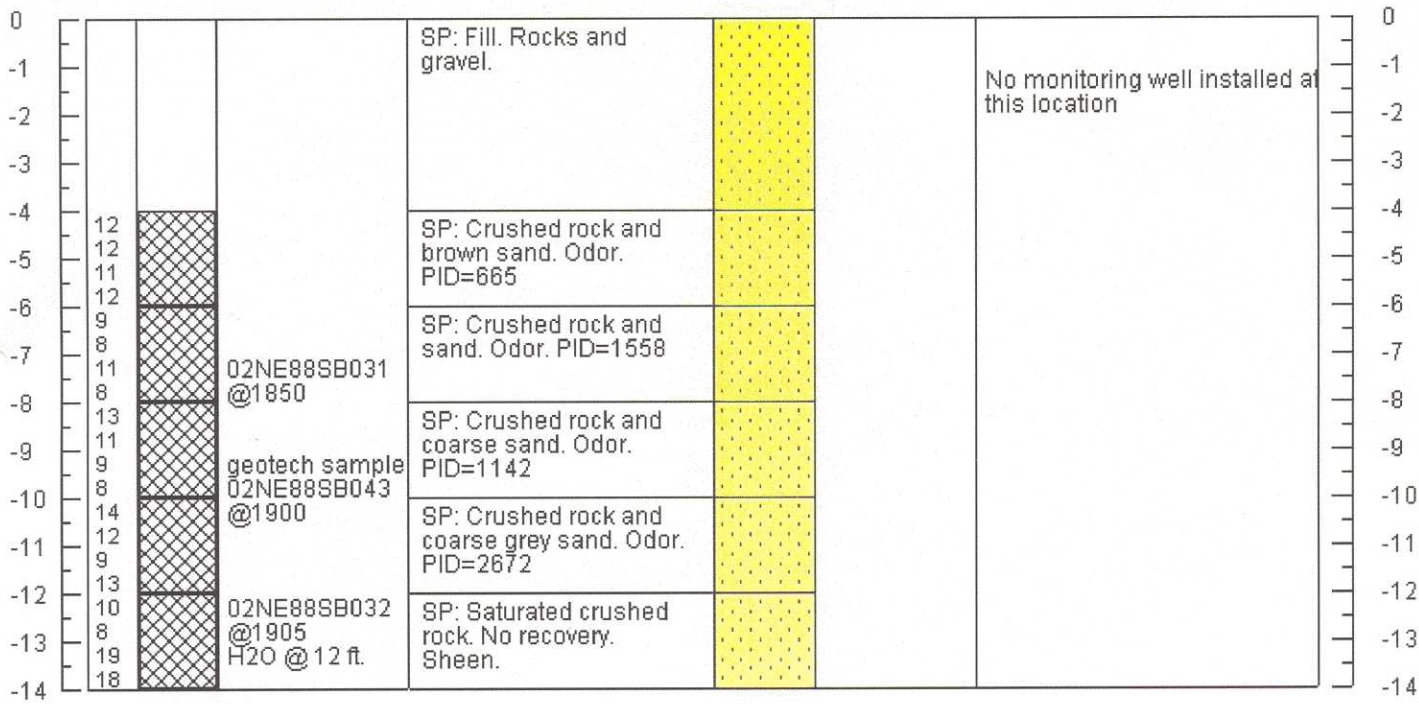
Boring Size- 8.25 in | AK State Plane Coordinates- 96260.0342 / 98182.7094 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 14.0 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 72.95 ft.



Boring # - SB 88-17 | Project- NEC Phase III RI | Client- USACE | Date- 8/21/02

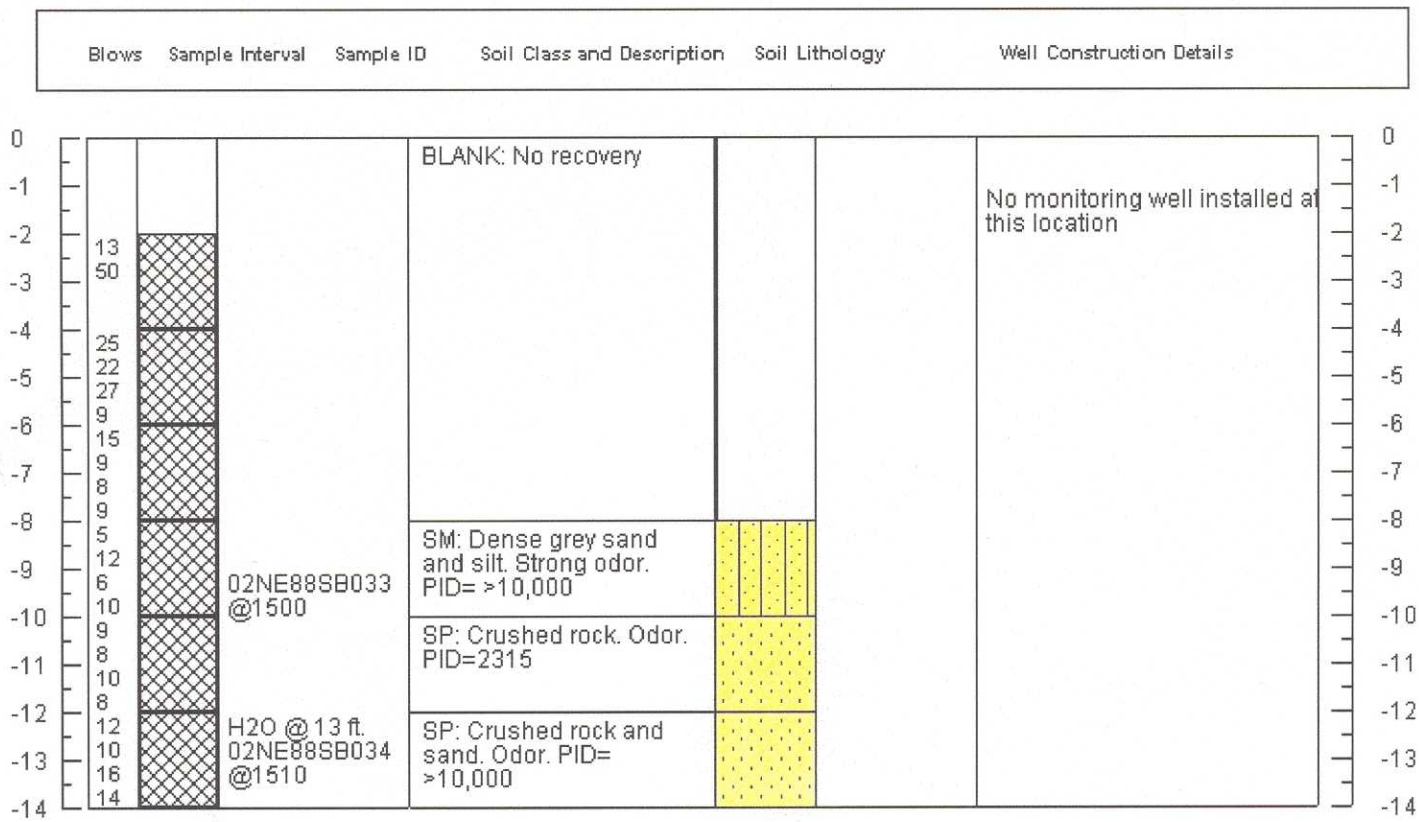
Boring Size- 8.25 in | AK State Plane Coordinates- 96171.5812 / 98270.0480 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 14 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 69.65 ft.



Boring # - SB 88-18 | Project- NEC Phase III RI | Client- USACE | Date- 8/21/02

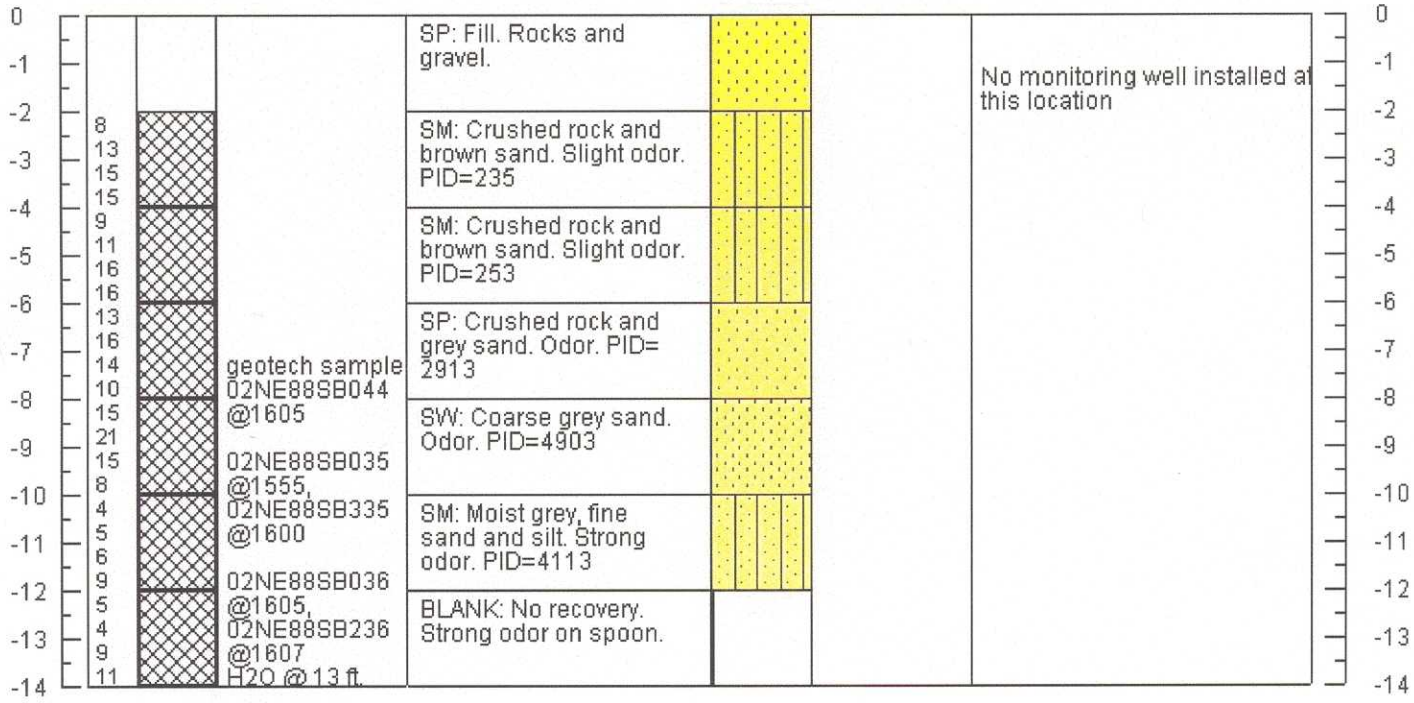
Boring Size- 8.25 in | AK State Plane Coordinates- 96070.5355 / 98228.2467 Northing / Easting

Drilling Method- Hollow Stem Augur

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs | Total Depth- 14 ft. | Elevation Datum- MSL

Sample Type- Grab | Sampler Type- 2.5 in SS | Geologist- O'Connell | Top of Hole Elev.- 71.93 ft.



Boring # - SB 22-1 (SB 88-20) Project- NEC Phase III RI Client- USACE Date- 8/20/02

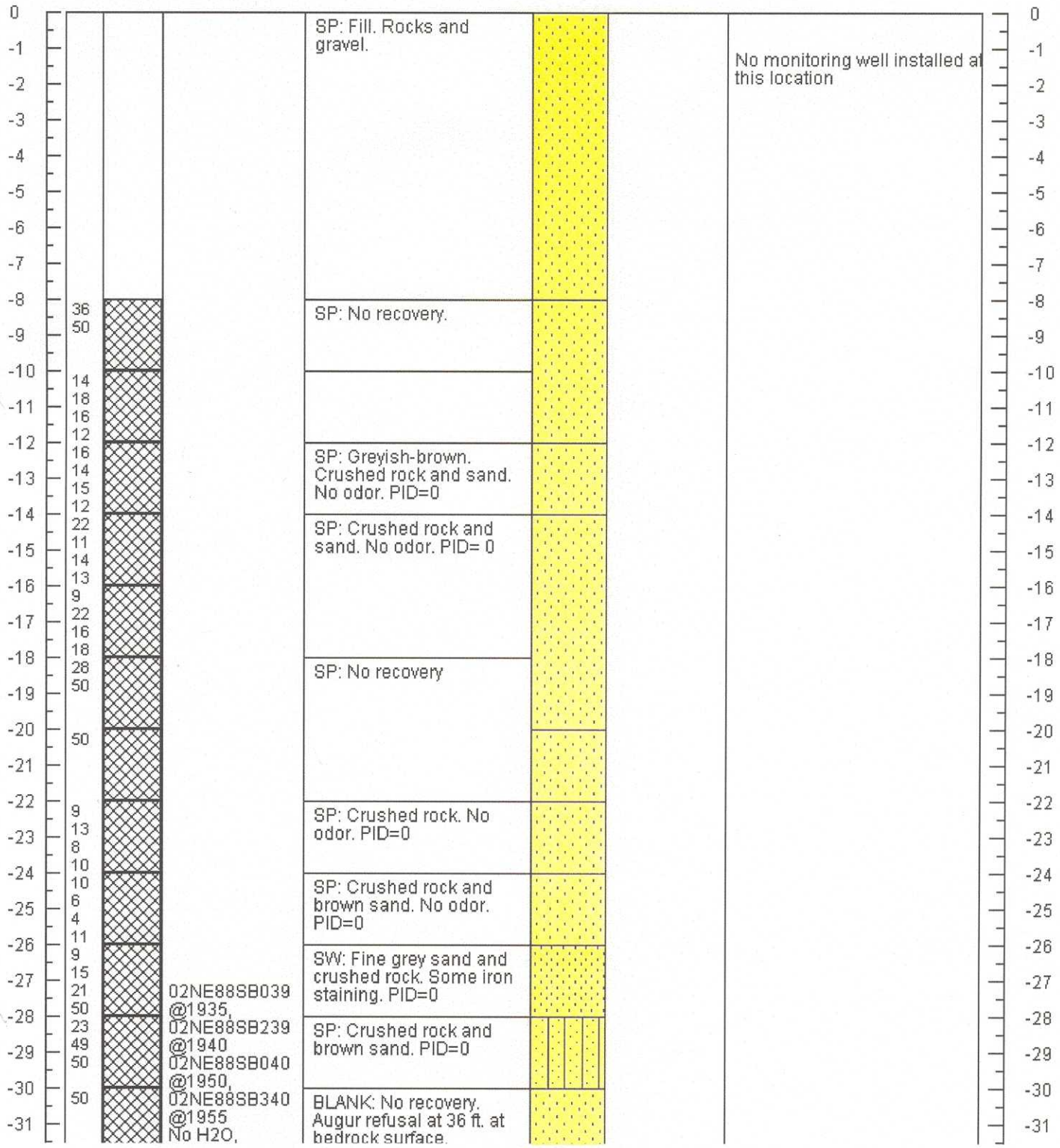
Boring Size- 8.25 in AK State Plane Coordinates- 96233.7486 / 97685.3823

Drilling Method- Hollow Stem Augur Northing / Easting

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs Total Depth- 36 ft. Elevation Datum- MSL

Sample Type- Grab Sampler Type- 2.5 in SS Geologist- O'Connell Top of Hole Elev.- 98.14 ft.



Boring # - SB 22-1 (SB 88-20) Project- NEC Phase III RI Client- USACE Date- 8/20/02

Boring Size- 8.25 in AK State Plane Coordinates- 96233.7486 / 97685.3823

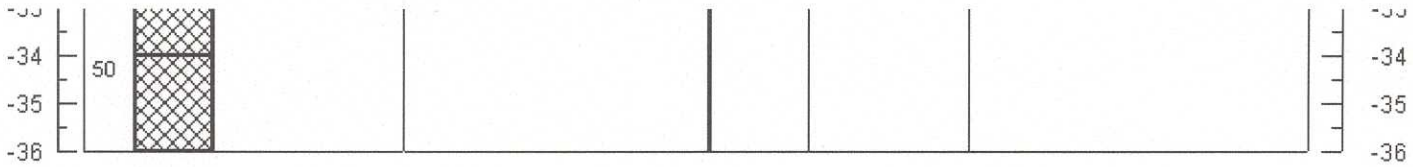
Drilling Method- Hollow Stem Augur Northing / Easting

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs Total Depth- 36 ft. Elevation Datum- MSL

Sample Type- Grab Sampler Type- 2.5 in SS Geologist- O'Connell Top of Hole Elev.- 98.14 ft.

Blows	Sample Interval	Sample ID	Soil Class and Description	Soil Lithology	Well Construction Details



Boring # - SB 22-2 (SB 88-19) Project- NEC Phase III RI Client- USACE Date- 8/22/02

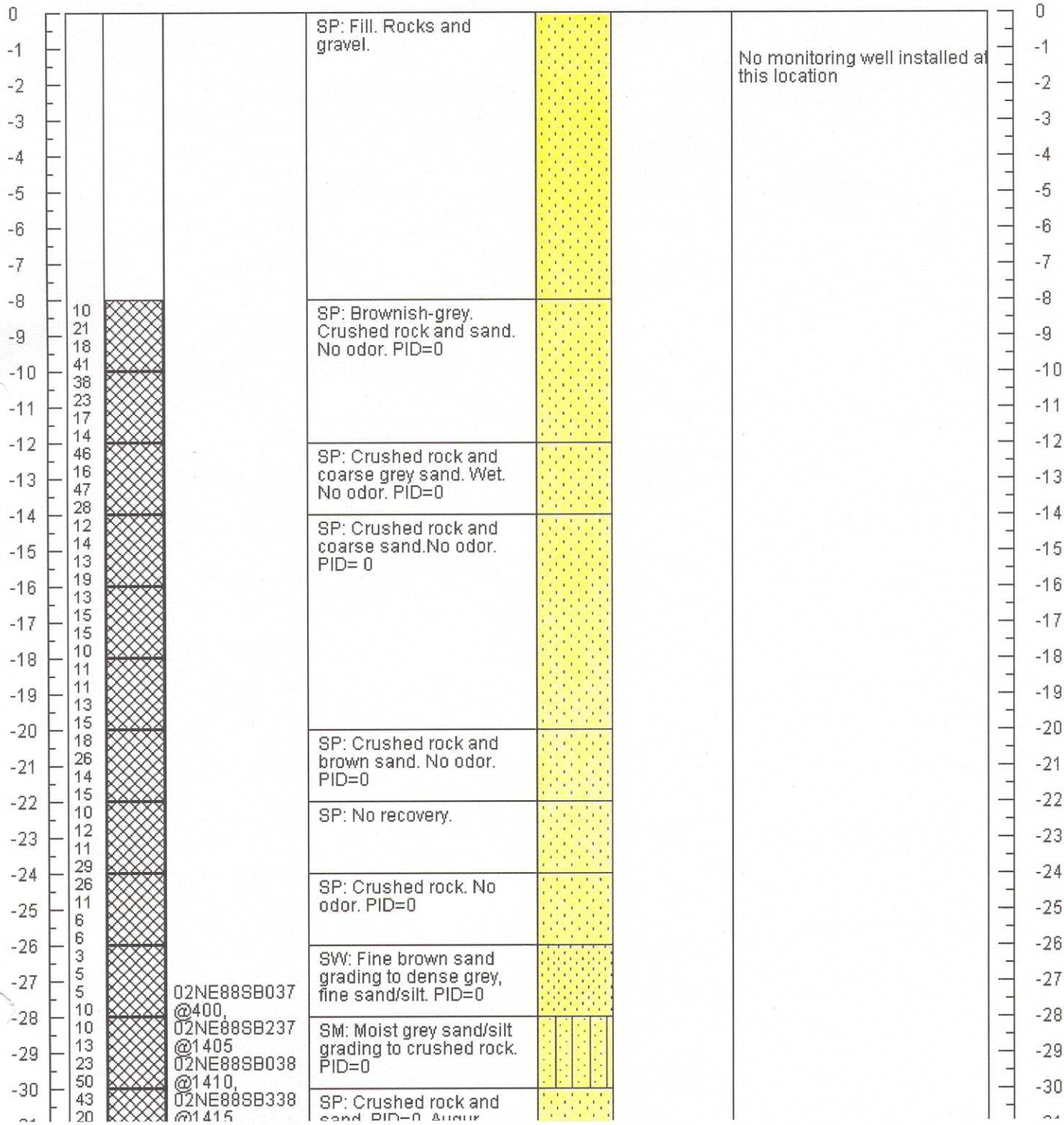
Boring Size- 8.25 in AK State Plane Coordinates- 96206.4925 / 97683.0309

Drilling Method- Hollow Stem Augur Northing / Easting

Rig Type- 45-C

Hammer Drop- 30 in / 360 lbs Total Depth- 32 ft Elevation Datum- MSL

Sample Type- Grab Sampler Type- 2.5 in SS Geologist- O'Connell Top of Hole Elev.- 97.75 ft.



APPENDIX B

Sample Plan Checklist, Chain-of-Custody Forms, and Lab Receipts

NEC July sampling
Sampling Summary

Site No.	Site Description	Sample Location	Sample ID
	METHOD		
35			01NE35GW101
			01NE35GW102
			01NE35GW103
			01NE35GW104
	01NE35GW101	FD	01NE35GW201
	01NE35GW101	QA	01NE35GW301
			01NE35TB101
		TB	01NE35TB102
		QATB	01NE35TB302

Total Primary Samples	**Sampled to Date**
Field Duplicates	
MS/MSD set	
Trip blanks	
Equipment blanks	
QA samples	
QA MS/MSD set	
QA Trip blank	

Natural Attenuation measurements include - field parameters: pH , temperature, oxidation reductio
Geotechnical parameters include - moisture content ASTM D2216, Sieve Analysis ASTM D-422, D
Water Quality Field parameters include - pH, conductivity, temperature, turbidity

Site 28 Northeast Cape 2001 Phase III RI
sampling plan
Northeast Cape, St. Lawrence Island, Alaska

						Soil/Sediment					Surface Water	
Site No.	Site Description	Sample Location	Sample ID			DRO/ RRO	PAHs	PCBs	Pb, Zn, Cr	TOC	DRO/ RRO	PCBs
	METHOD			DATE	TIME	AK 102/ 103	SW 8270C SIM	SW 8082	SW 6010B	LAB METHOD	AK 102/ 103	SW 8082
28	Drainage Basin Area	Drainage Basin Surface Water										
		6 SW SAMPLES	01NE28SW111	18-Aug	1002						1	1
			01NE28SW112	18-Aug	1455						1	1
			01NE28SW113	18-Aug	1710						1	1
			01NE28SW114	19-Aug	1415						1	1
			01NE28SW115	19-Aug	1430						1	1
			01NE28SW116	20-Aug	1010						1	1
	01NE28SW111	FD	01NE28SW211	18-Aug	1010						FD	FD
	01NE28SW111	QA	01NE28SW311	18-Aug	1002						QA	QA
	01NE28SW111	MS/MSD	01NE28SW111	18-Aug	1002						MS	MS
	01NE28SW111	QA MS/MSD	01NE28SW311	18-Aug	1002						QAMS	QAMS
		Drainage Basin Soil/Sediment										
	1	CROSS SECTION I	01NE28SD111	18-Aug	1025	1	1	1	1	1		
	2	6 SD SAMPLES	01NE28SD112	18-Aug	1040	1	1	1	1	1		
	3	111-116	01NE28SD113	18-Aug	1045	1	1	1	1	1		
	4		01NE28SD114	18-Aug	1050	1	1	1	1	1		
	5		01NE28SD115	18-Aug	1055	1	1	1	1	1		
	6		01NE28SD116	18-Aug	1100	1	1	1	1	1		
	01NE28SD111	FD	01NE28SD211	18-Aug	1030	FD	FD	FD	FD			
	01NE28SD111	QA	01NE28SD311	18-Aug	1025	QA	QA	QA	QA			
	01NE28SD111	MS/MSD	01NE28SD111	18-Aug	1025	MS	MS	MS	MS			
	01NE28SD111	QA MS/MSD	01NE28SD311	18-Aug	1025	QAMS	QAMS	QAMS	QAMS			
	01NE28SD111	USACE split	01NE28SD411	18-Aug	1025							
	1	CROSS SECTION 2	01NE28SD117	18-Aug	1325	1	1	1	1	1		
	2	6 SD SAMPLES	01NE28SD118	18-Aug	1335	1	1	1	1	1		
	3	117-122	01NE28SD119	18-Aug	1340	1	1	1	1	1		
	4		01NE28SD120	18-Aug	1345	1	1	1	1	1		
	5		01NE28SD121	18-Aug	1350	1	1	1	1	1		
	6		01NE28SD122	18-Aug	1355	1	1	1	1	1		
	1	CROSS SECTION 3	01NE28SD123	18-Aug	1510	1	1	1	1	1		
	2	6 SD SAMPLES	01NE28SD124	18-Aug	1520	1	1	1	1	1		
	3	123-128	01NE28SD125	18-Aug	1525	1	1	1	1	1		
	4		01NE28SD126	18-Aug	1540	1	1	1	1	1		
	5		01NE28SD127	18-Aug	1545	1	1	1	1	1		
	6		01NE28SD128	18-Aug	1550	1	1	1	1	1		
	01NE28SD125	FD	01NE28SD225	18-Aug	1530	FD	FD	FD	FD			
	01NE28SD125	QA	01NE28SD325	18-Aug	1525	QA	QA	QA	QA			
	01NE28SD125	MS/MSD	01NE28SD125	18-Aug	1525	MS	MS	MS	MS			
	01NE28SD125	USACE split	01NE28SD425	18-Aug	1525							
	1	CROSS SECTION 4	01NE28SD129	18-Aug	1610	1	1	1	1	1		
	2	6 SD SAMPLES	01NE28SD130	18-Aug	1615	1	1	1	1	1		
	3	129-134	01NE28SD131	18-Aug	1620	1	1	1	1	1		
	4		01NE28SD132	18-Aug	1625	1	1	1	1	1		
	5		01NE28SD133	18-Aug	1630	1	1	1	1	1		
	6		01NE28SD134	18-Aug	1635	1	1	1	1	1		
	1	CROSS SECTION 5	01NE28SD135	19-Aug	1000	1	1	1	1	1		
	2	6 SD SAMPLES	01NE28SD136	19-Aug	1010	1	1	1	1	1		
	3	135-140	01NE28SD137	19-Aug	1015	1	1	1	1	1		
	4		01NE28SD138	19-Aug	1025	1	1	1	1	1		
	5		01NE28SD139	19-Aug	1035	1	1	1	1	1		
	6		01NE28SD140	19-Aug	1100	1	1	1	1	1		
	01NE28SD139	FD	01NE28SD239	19-Aug	1040	FD	FD	FD	FD			
	01NE28SD139	QA	01NE28SD339	19-Aug	1035	QA	QA	QA	QA			
	01NE28SD139	MS/MSD	01NE28SD139	19-Aug	1035	MS	MS	MS	MS			
	1	CROSS SECTION 6	01NE28SD141	19-Aug	1310	1	1	1	1	1		
	2	6 SD SAMPLES	01NE28SD142	19-Aug	1315	1	1	1	1	1		
	3	141-146	01NE28SD143	19-Aug	1325	1	1	1	1	1		
	4		01NE28SD144	19-Aug	1335	1	1	1	1	1		
	5		01NE28SD145	19-Aug	1345	1	1	1	1	1		
	6		01NE28SD146	19-Aug	1355	1	1	1	1	1		
	1	CROSS SECTION 7	01NE28SD147	19-Aug	1455	1	1	1	1	1		
	2	6 SD SAMPLES	01NE28SD148	19-Aug	1505	1	1	1	1	1		
	3	147-152	01NE28SD149	19-Aug	1510	1	1	1	1	1		
	4		01NE28SD150	19-Aug	1520	1	1	1	1	1		
	5		01NE28SD151	19-Aug	1530	1	1	1	1	1		
	6		01NE28SD152	19-Aug	1545	1	1	1	1	1		
	01NE28SD151	FD	01NE28SD251	19-Aug	1535	FD	FD	FD	FD			
	01NE28SD151	QA	01NE28SD351	19-Aug	1530	QA	QA	QA	QA			
	01NE28SD151	MS/MSD	01NE28SD151	19-Aug	1530	MS	MS	MS	MS			
	01NE28SD151	USACE split	01NE28SD451	19-Aug	1530							
	1	CROSS SECTION 8	01NE28SD153	19-Aug	1610	1	1	1	1	1		
	2	6 SD SAMPLES	01NE28SD154	19-Aug	1620	1	1	1	1	1		
	3	153-158	01NE28SD155	19-Aug	1625	1	1	1	1	1		
	4		01NE28SD156	19-Aug	1630	1	1	1	1	1		
	5		01NE28SD157	19-Aug	1635	1	1	1	1	1		
	6		01NE28SD158	19-Aug	1645	1	1	1	1	1		
	01NE28SD153	FD	01NE28SD253	19-Aug	1615	FD	FD	FD	FD			
	01NE28SD153	QA	01NE28SD353	19-Aug	1610	QA	QA	QA	QA			
	01NE28SD157	FD	01NE28SD257	19-Aug	1640	FD	FD	FD	FD			
	01NE28SD157	QA	01NE28SD357	19-Aug	1635	QA	QA	QA	QA			
	1	CROSS SECTION 9	01NE28SD159	20-Aug	1355	1	1	1	1	1		
	2	6 SD SAMPLES	01NE28SD160	20-Aug	1405	1	1	1	1	1		
	3	159-164	01NE28SD161	20-Aug	1410	1	1	1	1	1		
	4	unable to sample	01NE28SD162			x	x	x	x	x		
	5		01NE28SD163	20-Aug	1430	1	1	1	1	1		
	6		01NE28SD164	20-Aug	1440	1	1	1	1	1		
	01NE28SD163	FD	01NE28SD263	20-Aug	1435	FD	FD	FD	FD			
	01NE28SD163	QA	01NE28SD363	20-Aug	1430	QA	QA	QA	QA			
	01NE28SD163	USACE split	01NE28SD463	20-Aug								

Site 28 Northeast Cape 2001 Phase III RI sampling plan
Northeast Cape, St. Lawrence Island, Alaska

						Soil/Sediment					Surface Water	
Site No.	Site Description	Sample Location	Sample ID			DRO/ RRO	PAHs	PCBs	Pb, Zn, Cr	TOC	DRO/ RRO	PCBs
	METHOD			DATE	TIME	AK 102/ 103	SW 8270C SIM	SW 8082	SW 6010B	LAB METHOD	AK 102/ 103	SW 8082
	1	CROSS SECTION 10	01NE28SD165	20-Aug	1450	1	1	1	1	1		
	2	6 SD SAMPLES	01NE28SD166	20-Aug	1455	1	1	1	1	1		
	3	165-170	01NE28SD167	20-Aug	1505	1	1	1	1	1		
	4		01NE28SD168	20-Aug	1510	1	1	1	1	1		
	5		01NE28SD169	20-Aug	1515	1	1	1	1	1		
	6		01NE28SD170	20-Aug	1530	1	1	1	1	1		
	1	CROSS SECTION 11	01NE28SD171	20-Aug	1020	1	1	1	1	1		
	2	6 SD SAMPLES	01NE28SD172	20-Aug	1030	1	1	1	1	1		
	3	171-176	01NE28SD173	20-Aug	1035	1	1	1	1	1		
	4		01NE28SD174	20-Aug	1040	1	1	1	1	1		
	5		01NE28SD175	20-Aug	1045	1	1	1	1	1		
	6		01NE28SD176	20-Aug	1055	1	1	1	1	1		
	01NE28SD171	FD	01NE28SD271	20-Aug	1025	FD	FD	FD	FD			
	01NE28SD171	QA	01NE28SD371	20-Aug	1020	QA	QA	QA	QA			
	01NE28SD171	USACE split	01NE28SD471	20-Aug	1020							
	01NE28SD175	FD	01NE28SD275	20-Aug	1050	FD	FD	FD	FD			
	01NE28SD175	QA	01NE28SD375	20-Aug	1045	QA	QA	QA	QA			
	1	CROSS SECTION 12	01NE28SD177	20-Aug	1115	1	1	1	1	1		
	2	6 SD SAMPLES	01NE28SD178	20-Aug	1120	1	1	1	1	1		
	3	177-182	01NE28SD179	20-Aug	1125	1	1	1	1	1		
	4		01NE28SD180	20-Aug	1130	1	1	1	1	1		
	5		01NE28SD181	20-Aug	1135	1	1	1	1	1		
	6		01NE28SD182	20-Aug	1140	1	1	1	1	1		
		Total Primary Samples				**71**	**71**	**71**	**71**	**71**	**6**	**6**
		Field Duplicates				9	9	9	9	0	1	1
		MS/MSD Sets				4	4	4	4	0	1	1
		Trip blanks				0	0	0	0	0	0	0
		Equipment blanks				0	0	0	0	0	0	0
		QA samples				9	9	9	9	0	1	1
		QA MS/MSD sets				1	1	1	1	0	1	1
		QA Trip blanks				0	0	0	0	0	0	0
		Total Primary Samples				72	72	72	72	72	6	6
		QA/QC										
		Field Duplicates				8	8	8	8	8	1	1
		MS/MSD Sets				4	4	4	4	4	1	1
		Trip blanks				0	0	0	0	0	0	0
		Equipment blanks				0	0	0	0	0	0	0
		QA samples				8	8	8	8	8	1	1
		QA MS/MSD sets				1	1	1	0	1	1	1
		QA Trip blanks				0	0	0	0	0	0	0

Site 28 sampled to date

Site 28 total samples pre-sampling plan

NEC August sites (not including site 28)
Sampling Summary

						Soil/Sediment											Groundwater/Surface Water								
Site No.	Site Description	Sample Location	Sample ID			DRO/ RRO	GRO	BTEX	VOCs	PAHs	PCBs	Pesti-cides	TAL Metals	Pb	Pb, Zn, Cr	TOC	DRO	DRO/ RRO	GRO	GRO/ BTEX	VOCs	SVOCs	PAH	PCBs	TAL Metals	Natural Attenuation
	METHOD			DATE	TIME	AK 102/ 103	AK 101	SW 8260B SIM	SW 8260B	SW 8270C SIM	SW 8082	SW 8081	SW 6010/ 7000	SW 7421	SW 6010B	LAB METHOD	AK 102	AK 102/ 103	AK 101	AK101/SW 8260B	SW 8260	SW 8270	SW 8270C SIM	SW 8082		
3	Pumphouse	Groundwater (Well Points)																								
		WP 3-2	01NE03WP102	8/25/01	1015													1								
		WP3-3	01NE03WP103	8/25/01	1045													1								
		WP3-4	01NE03WP104	8/25/01	1115													1								
4	Subsistence Camp	Groundwater (Well Points)																								
		WP 4-2	01NE04WP102	8/25/01	1200													1								
		WP4-3	01NEO4WP103	8/25/01	1345													1								
		WP4-4	01NE04WP104	8/25/01	1500													1								
		TB	01NE00TB115	8/24/01	1900															TB	TB					
6	Cargo Beach Drum	Groundwater (Well Points 06-1,-2)																								
		WP 6-1	01NE06WP101															NO								
		WP6-2	01NE06WP102	8/27/01	1411													1								
			01NE06SW116	8/26/01	1100													1								
		Groundwater (Well Point 06-3)																								
		WP 6-3	01NE06WP103	8/25/01	1700													1		1				1	1	
		TB	01NE00TB101	8/18/01	1600		TB	TB																		
		Soil from Test Pits																								
		TP 6-1	01NE06TP101	8/18/01	1100	1										1										
		TP6-2	01NE06TP102	8/18/01	1200	1										1										
		Discretionary Soil/Sed. Samples																								
			01NE06SD116	8/18/01	1600	1	1	1			1		1													
			01NE06SD117	8/18/01	1630	1	1	1			1		1													
	01NE06TP101	FD	01NE06TP201	8/18/01	1105	FD																				
	01NE06TP101	QA	01NE06TP301	8/18/01	1110	QA																				
	01NE06TP101	MS/MSD	01NE06TP101	8/18/01	1100	MS																				
7	Cargo Beach Landfill	Groundwater (Well Points)																								
		WP 7-1	01NE07WP101	8/28/01	1000													1	1		1		1	1	1	
		WP7-2	01NE07WP102	8/27/01	1700													1	1		1		1	1	1	
		WP7-3	01NE07WP103	8/27/01	1430													1	1		1		1	1	1	
	01NE07WP102	FD	01NE07WP202	8/27/01	1700																FD		FD			
		QA	01NE07WP302	8/27/01	1700																QA		QA			
		TB	01NE00TB118	8/27/01	1900														TB		TB					
		QATB	01NE00TB117	8/27/01	1900																QATB					
		Surface Soil																								
		SS 7-125	01NE07SS125	8/19/01	1115	1			1	1	1		1													
		SS 7-126	01NE07SS126	8/19/01	1130	1			1	1	1		1													
		SS 7-127	01NE07SS127	8/19/01	1145	1			1	1	1		1													
		Surface Water																								
		SW 7-104	01NE07SW104	8/19/01	1330													1	1		1		1	1	1	
		SW 7-105	01NE07SW105	8/19/01	1500													1	1		1		1	1	1	
			01NE00TB101	8/19/01	1900														TB		TB					
		Sediment																								
		SD 7-104	01NE07SD104	8/19/01	1400	1			1	1	1		1													
		SD 7-105	01NE07SD105	8/19/01	1530	1			1	1	1		1													
		TB	01NE00TB102	8/19/01	1900		TB	TB	TB																	
9	Housing Landfill	Groundwater (Well Points)																								
		WP 9-1	01NE09WP101															NO	NO		NO		NO	NO	NO	
		WP 9-2	01NE09WP102	8/26/01	900													1	1		1		1	1	1	
		WP 9-3	01NE09WP103															NO	NO		NO		NO	NO	NO	
		WP 9-4	01NE09WP104															NO	NO		NO		NO	NO	NO	
		WP 9-5	01NE09WP105															NO	NO		NO		NO	NO	NO	
			01NE09SW111	8/26/01	1115													1	1		1		1	1	1	
			01NE09SW112	8/26/01	1315													1	1		1		1	1	1	
			01NE09MW103	8/26/01	1015													1	1		1		1	1	1	
		TB	01NE00TB116	8/26/01	1115														1		1					
		Surface Water																								
		SW 9-107	01NE09SW107	8/23/01	1450													1	1		1		1	1	1	
		FD	01NE09SW207	8/23/01	1455													FD	FD		FD		FD	FD	FD	
		QA	01NE09SW307	8/23/01	1450																					

NEC August sites (not including site 28)
Sampling Summary

						Soil/Sediment											Groundwater/Surface Water								
Site No.	Site Description	Sample Location	Sample ID			DRO/ RRO	GRO	BTEX	VOCs	PAHs	PCBs	Pesti-cides	TAL Metals	Pb	Pb, Zn, Cr	TOC	DRO	DRO/ RRO	GRO	GRO/ BTEX	VOCs	SVOCs	PAH	PCBs	TAL Metals	Natural Attenuation
	METHOD			DATE	TIME	AK 102/ 103	AK 101	SW 8260B SIM	SW 8260B	SW 8270C SIM	SW 8082	SW 8081	SW 6010/ 7000	SW 7421	SW 6010B	LAB METHOD	AK 102	AK 102/ 103	AK 101	AK101/SW 8260B	SW 8260	SW 8270	SW 8270C SIM	SW 8O82		
		MS/MSD	01NE09SW107	8/23/01	1450													MS						MS		
		TB	01NE00TB108	8/23/01	1900														TB		TB					
		QATB	01NE00TB106	8/23/01	1900														QATB		QATB					
		Discretionary Surface Water Samp.																								
		SW 9-108	01NE09SW108																							
		SW9-109	01NE09SW109	8/23/01	1650													NO	NO		NO		NO	NO	NO	
			01NE09SW110	8/25/01	1720													1	1		1		1	1	1	
																			1		1					
		Sediment																								
		SD 9-107	01NE09SD107	8/23/01	1540	1			1	1	1		1													
		SD 9-108	01NE09SD108	8/23/01	1610	1			1	1	1		1													
		SD 9-109	01NE09SD109	8/23/01	1705	1			1	1	1		1													
		Discretionary Sediment Samples																								
		SD 9-113	01NE09SD113	8/24/01	830	1	1		1	1	1		1			1										
		SD 9-114	01NE093D114	8/24/01	920	1	1		1	1	1		1			1										
	01NE09SD113	FD	01NE09SD213	8/24/01	835	FD	FD		FD	FD	FD		FD													
	01NE09SD113	QA	01NE09SD313	8/24/01	830	QA	NO		QA	QA	QA		QA													
		QAMS	01NE09SD313			QAMS			QAMS	QAMS	QAMS		QAMS													
			01NE09SS117	8/24/01	950				1																	
14	Emergency Bldg	Surface Soil																								
		SS 14-101	01NE14SS101	8/24/01	1130						1															
		SS 14-102	01NE14SS102	8/24/01	1135						1															
		SS 14-103	01NE14SS103	8/24/01	1140						1															
	01NE14SS103	FD	01NE14SS203	8/24/01	1145						FD															
		QA	01NE14SS303	8/24/01	1150						QA															
16	Paint and Dope	Groundwater (Existing Wells)																								
		GW 16-101	01NE16GW101	8/23/01	1135																	1				
		GW 16-102	01NE16GW102	8/23/01	1005																	1				
		GW 16-103	01NE16GW103	8/23/01	1045																	1				
	01NE16GW101	FD	01NE16GW201	8/23/01	1140																	FD				
	01NE16GW101	QA	01NE16GW301	8/23/01	1135																	QA				
		MS/MSD	01NE16GW101																			MS				
		QA MS/MSD	01NE16GW301																			QAMS				
		Surface Soil																								
		SS 16-165	01NE16SS165	8/23/01	1355						1			1												
	01NE16SS165	FD	01NE16SS265	8/23/01	1400									FD												
		QA	01NE16SS365	8/23/01	1355									QA												
		QAMS	01NE16SS365											QAMS												
		SS 16-166	01NE16SS166	8/23/01	1415						1			1												
		TB	01NE00TB06	8/23/01	1900		QATB	QATB																		
21	W W Treatment	Surface Soil																								
		5 SS SAMPLES	01NE21SS169	8/24/01	1045	1	1	1			1		1													
			01NE21SS170	8/24/01	1125	1	1	1			1		1													
			01NE21SS171	8/24/01	950	1	1	1			1		1													
			01NE21SS172	8/24/01	1345	1	1	1			1		1													
			01NE21SS173	8/24/01	1340	1	1	1			1		1													
	01NE21SS169	FD	01NE21SS269	8/24/01	1050	FD	FD	FD			FD		FD													
		QA	01NE21SS369	8/24/01	1045	QA	QA	QA			QA		QA													
		MS/MSD	01NE21SS169	8/24/01	1045	MS	MS	MS					MS													
		TB	01NE00TB111	8/24/01	1900		TB	TB																		
		QAMS	01NE21SS369	8/24/01	1045	QAMS	QAMS	QAMS			QAMS		QAMS													
		QATB	01NE00TB106	8/23/01	1900		QATB	QATB																		
		Subsurface Soil																								
		3 SB SAMPLES	01NE21SB169	8/24/01	1100	1	1	1			1		1													
			01NE21SB170	8/24/01	1130	1	1	1			1		1													
			01NE21SB171	8/24/01	1020	1	1	1			1		1													
		Surface Water																								
		2 SW SAMPLES	01NE21SW113	8/24/01	1440													1	1					1	1	
			01NE21SW114	8/24/01	1405													1	1					1	1	
	01NE21SW113	FD	01NE21SW213	8/24/01	1445													FD	FD							
		QA	01NE21SW313	8/24/01	1440													QA	QA							
		TB	01NE00TB0113	8/24/01	1900														TB							
		MS/MSD	01NE21SW113	8/24/01	1440														MS							
		QAMS GRO only	01NE21SW313	8/24/01	1440														QAMS							
		QATB	01NE00TB112	8/24/01	1900														QATB							
		Sediment	01NE00TB113	8/24/01	1900														TB							

NEC August sites (not including site 28)
Sampling Summary

						Soil/Sediment											Groundwater/Surface Water								
Site No.	Site Description	Sample Location	Sample ID			DRO/ RRO	GRO	BTEX	VOCs	PAHs	PCBs	Pesti-cides	TAL Metals	Pb	Pb, Zn, Cr	TOC	DRO	DRO/ RRO	GRO	GRO/ BTEX	VOCs	SVOCs	PAH	PCBs	TAL Metals	Natural Attenuation
	METHOD			DATE	TIME	AK 102/ 103	AK 101	SW 8260B SIM	SW 8260B	SW 8270C SIM	SW 8082	SW 8081	SW 6010/ 7000	SW 7421	SW 6010B	LAB METHOD	AK 102	AK 102/ 103	AK 101	AK101/SW 8260B	SW 8260	SW 8270	SW 8270C SIM	SW 8082		
		2 SD SAMPLES	01NE21SD113	8/24/01	1505	1	1	1			1		1													
			01NE21SD114	8/24/01	1425	1	1	1			1		1													
24	Receiver Bldg	Discretionary Soil/Sed. Samples																								
		2 SD SAMPLES	01NE24SD114	8/24/01	900	1	1	1			1		1													
			01NE24SD115	8/24/01	930	1	1	1			1		1													
		FD	01NE24SD214	8/24/01	905		FD	FD																		
	01NE24SD114	QA	01NE24SD314	8/24/01	910		QA	QA																		
		Discretionary Surface Water Samp.																								
		SW 24-	01NE24SW114	8/24/01	830													1		1				1	1	
	01NE24SW114	FD	01NE24SW214	8/24/01	835													FD						FD	FD	
		QA	01NE24SW314	8/24/01	840													QA						QA	QA	

NEC August sites (not including site 28)
Sampling Summary

						Soil/Sediment											Groundwater/Surface Water								
Site No.	Site Description	Sample Location	Sample ID			DRO/ RRO	GRO	BTEX	VOCs	PAHs	PCBs	Pesti-cides	TAL Metals	Pb	Pb, Zn, Cr	TOC	DRO	DRO/ RRO	GRO	GRO/ BTEX	VOCs	SVOCs	PAH	PCBs	TAL Metals	Natural Attenuation
	METHOD			DATE	TIME	AK 102/ 103	AK 101	SW 8260B SIM	SW 8260B	SW 8270C SIM	SW 8082	SW 8081	SW 6010/ 7000	SW 7421	SW 6010B	LAB METHOD	AK 102	AK 102/ 103	AK 101	AK101/SW 8260B	SW 8260	SW 8270	SW 8270C SIM	SW 8082		
29	Suqitughneq River																									
		Suqitughneq River Surface Water																								
		4 SW SAMPLES	01NE29SW114	8/20/01	1625													1		1			1	1	1	
			01NE29SW115	8/20/01	1530													1		1			1	1	1	
			01NE29SW116	8/20/01	1010													1		1			1	1	1	
			01NE29SW117	8/20/01	1950													1		1			1	1	1	
		FD	01NE29SW217	8/20/01	1955													FD		FD			FD	FD	FD	
		QA	01NE29SW317	8/20/01	1950													QA		QA			QA	QA	QA	
		MS/MSD	01NE29SW117	8/20/01	1950													MS		MS			MS	MS	MS	
		USACE split surface water	01NE29SW417	8/20/01	1950																					
		QA MS/MSD																		QA/MS			QAMS		QAMS	
		TB	01NE00TB103	8/20/01	1900															TB						
		QATB	01NE00TB007	8/20/01	1900															QATB						
		Suqitughneq River Soil/Sediment																								
		12 SD SAMPLES	01NE29SD114	8/21/01	1630	1				1	1				1	1										
			01NE29SD115	8/21/01	1650	1				1	1				1	1										
			01NE29SD116	8/21/01	1705	1				1	1				1	1										
			01NE29SD117	8/21/01	1540	1				1	1				1	1										
			01NE29SD118	8/21/01	1545	1				1	1				1	1										
			01NE29SD119	8/21/01	1550	1				1	1				1	1										
			01NE29SD120	8/21/01	1400	1				1	1				1	1										
			01NE29SD121	8/21/01	1405	1				1	1				1	1										
			01NE29SD122	8/21/01	1415	1				1	1				1	1										
			01NE29SD123	8/21/01	900	1				1	1				1	1										
			01NE29SD124	8/21/01	910	1				1	1				1	1										
			01NE29SD125	8/21/01	950	1				1	1				1	1										
	01NE29SD125	FD	01NE29SD225	8/21/01	955	FD				FD	FD				FD											
	01NE29SD125	QA	01NE29SD325	8/21/01	1000	QA				QA	QA				QA											
	01NE29SD125	MS/MSD	01NE29SD125	8/21/01	950	MS				MS	MS				MS											
	01NE29SD114	FD	01NE29SD214	8/21/01	1635	FD				FD	FD				FD											
	01NE29SD114	QA	01NE29SD314	8/21/01	1630	QA				QA	QA				QA											
	01NE29SD114	MS/MSD	01NE29SD114	8/21/01	1630	MS				MS	MS				MS											
		USACE split sediment																								
		USACE split sediment																								
		USACE split sediment																								
		USACE split sediment																								
		Suqi R. Estuary/Upgradient Sed.																								
		4 SD SAMPLES	01NE29SD126	8/21/01	1800	1	1	1		1	1		1													
			01NE29SD127	8/21/01	1740	1	1	1		1	1		1													
			01NE29SD128	8/21/01	1025	1	1	1		1	1		1													
			01NE29SD129	8/21/01	1045	1	1	1		1	1		1													
		TB	01NE00TB104	1900	8/21/01		TB	TB																		
30	Background	Surface Soil																								
		3 SS SAMPLES	01NE30SS101	8/24/01	1725	1				1			1													
			01NE30SS102			NO				NO			NO													
			01NE30SS103			NO				NO			NO													
	01NE30SS101	FD	01NE30SS201	8/24/01	1730								FD													
	01NE30SS101	QA	01NE30SS301	8/24/01	1725								QA													
		Groundwater (Well Points)																								
		2 WP LOCATIONS	01NE30WP101	8/25/01	1600													1	1		1		1		1	1
			01NE30WP102	8/28/01	930													1	1		1		1		1	1
		1 SW USACE only	01NE30SW401																							
		2 SW USACE only	01NE30SW402																							
		Sediment																								
		1 SD SAMPLE	01NE30SD101			NO				NO			NO			NO		NO	NO							
	01NE30SD101	USACE only	01NE30SD401																							
		2 SD SAMPLE USACE only	01NE30SD402																							

NEC August sites (not including site 28)
Sampling Summary

						Soil/Sediment											Groundwater/Surface Water								
Site No.	Site Description	Sample Location	Sample ID			DRO/ RRO	GRO	BTEX	VOCs	PAHs	PCBs	Pesti-cides	TAL Metals	Pb	Pb, Zn, Cr	TOC	DRO	DRO/ RRO	GRO	GRO/ BTEX	VOCs	SVOCs	PAH	PCBs	TAL Metals	Natural Attenuation
	METHOD			DATE	TIME	AK 102/ 103	AK 101	SW 8260B SIM	SW 8260B	SW 8270C SIM	SW 8082	SW 8081	SW 6010/ 7000	SW 7421	SW 6010B	LAB METHOD	AK 102	AK 102/ 103	AK 101	AK101/SW 8260B	SW 8260	SW 8270	SW 8270C SIM	SW 8082		
31	WAC	Soil at Transformer Pad																								
		4 SS	01NE31SS101	8/24/01	1040	1					1	1														
			01NE31SS102	8/24/01	1000	1					1	1														
			01NE31SS103	8/24/01	1020	1					1															
			01NE31SS104			NO					NO															
	01NE31SS102	FD	01NE31SS302	8/24/01	1915						FD	FD														
	01NE31SS102	QA	01NE31SS302	8/24/01	1910						QA	QA														
		QAMS	01NE31SS302	8/24/01	1910							QAMS														
		Soil at ASTs																								
		16 SS	01NE31SS105	8/23/01	1500	1																				
			01NE31SS106	8/23/01	1505	1																				
			01NE31SS107	8/23/01	1510	1																				
			01NE31SS108	8/23/01	1515	1																				
			01NE31SS109	8/23/01	1520	1																				
			01NE31SS110	8/23/01	1525	1																				
			01NE31SS111	8/23/01	1530	1																				
			01NE31SS112	8/23/01	1535	1																				
			01NE31SS113	8/23/01	1540	1																				
			01NE31SS114	8/23/01	1545	1																				
			01NE31SS115	8/23/01	1550	1																				
			01NE31SS116	8/23/01	1555	1																				
			01NE31SS117	8/23/01	1600	1																				
			01NE31SS118	8/23/01	1605	1																				
			01NE31SS119	8/23/01	1610	1																				
			01NE31SS120	8/23/01	1615	1																				
	01NE31SS120	FD	01NE31SS220	8/23/01	1650	FD																				
		QA	01NE31SS320	8/23/01	1625	QA																				
	01NE31SS105	QA	01NE31SS305	8/23/01	1504	QA																				
	01NE31SS105	FD	01NE31SS205	8/23/01	1503	FD																				
		Building 1001																								
		Discretionary Soil Samples																								
		4 SS	01NE31SS121	8/24/01	2025	1	1	1			1	1														
			01NE31SS122	8/24/01	2100	1	1	1			1	1														
			01NE31SS123	8/24/01	2230	1	1	1			1	1														
			01NE31SS124	8/24/01	2240	1	1	1			1	1														
	01NE31SS121	FD	01NE31SS221	8/24/01	2030	FD	FD	FD			FD	FD														
	01NE31SS121	QA	01NE31SS321	8/24/01	2035	QA	QA	QA																		
		TB	01NE00TB114	8/24/01	1900		TB	TB																		
		Background Soil																								
		1 SS	01NE31SS125	8/23/01	1630	1																				
		Surface Water (East Tributary)																								
		2 SW	01NE31SW101	8/24/01	2110												1	1		1			1	1	1	
			01NE31SW102	8/24/01	2245												1			1			1	1	1	
32	Lower Tram	Soil at AST																								
			01NEC32SS101			No																				
			01NEC32SS102			No																				
		Soil at Tram Bay																								
			01NEC32SS103			No					No	No														
			01NE32SS104			No					No	No														
			01NE32SS105	8/24/01	2020	1					1	1														
33	Upper Tram	Soil at Tram Bay																								
			01NE33SS101	8/23/01	830	1					1															
			01NE33SS102	8/23/01	835	1					1															
			01NE33SS103	8/23/01	840	1					1															

NEC August sites (not including site 28)
Sampling Summary

						Soil/Sediment											Groundwater/Surface Water								
Site No.	Site Description	Sample Location	Sample ID			DRO/ RRO	GRO	BTEX	VOCs	PAHs	PCBs	Pesti-cides	TAL Metals	Pb	Pb, Zn, Cr	TOC	DRO	DRO/ RRO	GRO	GRO/ BTEX	VOCs	SVOCs	PAH	PCBs	TAL Metals	Natural Attenuation
	METHOD			DATE	TIME	AK 102/ 103	AK 101	SW 8260B SIM	SW 8260B	SW 8270C SIM	SW 8082	SW 8081	SW 6010/ 7000	SW 7421	SW 6010B	LAB METHOD	AK 102	AK 102/ 103	AK 101	AK101/SW 8260B	SW 8260	SW 8270	SW 8270C SIM	SW 8082		
34	Upper Camp	Soil at Drum Dump Field																								
			01NE34SS101	8/23/01	1030	1				1	1															
			01NE34SS102	8/23/01	1035	1				1	1															
			01NE34SS103	8/23/01	1040	1				1	1															
		Soil at Transformer Pad																								
			01NE34SS104	8/23/01	1043						1															
		Soil at AST																								
			01NE34SS105	8/23/01	1045	1																				
			01NE34SS106	8/23/01	1050	1																				
		Building 124																								
		Building 221																								
		Discretionary Soil Samples																								
			01NE4SS107	8/23/01	1100	1					1					1										
			01NE34SS108	8/23/01	1105	1					1					1										
			01NE34SS109	8/23/01	1110	1					1					1										
			01NE34SS110	8/23/01	1115	1					1					1										
		Background Soil																								
			01NE34SS111	8/23/01	1130	1				1																

						Soil/Sediment											Groundwater/Surface Water								
Site No.	Site Description	Sample Location	Sample ID			DRO/ RRO	GRO	BTEX	VOCs	PAHs	PCBs	Pesti-cides	TAL Metals	Pb	Pb, Zn, Cr	TOC	DRO	DRO/ RRO	GRO	GRO/ BTEX	VOCs	SVOCs	PAH	PCBs	TAL Metals	Natural Attenuation
	METHOD			DATE	TIME	AK 102/ 103	AK 101	SW 8260B SIM	SW 8260B	SW 8270C SIM	SW 8082	SW 8081	SW 6010/ 7000	SW 7421	SW 6010B	LAB METHOD	AK 102	AK 102/ 103	AK 101	AK101/SW 8260B	SW 8260	SW 8270	SW 8270C SIM	SW 8082		
		Total Primary Samples	Sampled to Date			**81**	**24**	**22**	**11**	**31**	**64**	**7**	**29**	**2**	**12**	**20**	**0**	**37**	**17**	**8**	**15**	**3**	**19**	**27**	**23**	**2**
		Field Duplicates				8	4	3	1	3	7	2	3	1	2	0	0	4	2	1	2	1	3	3	3	0
		MS/MSD set				4	1	1	0	2	2	0	1	0	2	0	0	2	1	1	0	1	1	2	1	0
		Trip blanks				0	5	5	1	0	0	0	0	0	0	0	0	0	5	2	4	0	0	0	0	0
		Equipment blanks				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		QA samples				8	3	3	1	3	6	1	3	1	2	0	0	3	1	1	1	1	2	2	2	0
		QA MS/MSD set				2	1	1	1	1	2	1	2	1	0	0	0	0	1	0	0	1	1	0	1	0
		QA Trip blank				0	2	2	0	0	0	0	0	0	0	0	0	0	2	1	2	0	0	0	0	0
		Total Primary	Project WP sample totals- only sites listed			89	24	22	12	35	67	9	32	2	12	21	10	24	18	8	16	3	22	23	26	3
adjusted due to extra at 28		Field Duplicates				8	3	3	2	3	6	1	4	1	1	0	1	3	2	1	2	1	3	3	3	1
		MS/MSD set				5	2	2	1	2	4	1	2	1	1	0	1	2	1	1	1	1	2	2	2	1
		Trip blanks					3	3	2																	
		Equipment blanks																								
adjusted due to extra at 28		QA samples				8	3	3	2	3	6	1	4	1	1	0	1	3	2	1	2	1	3	3	3	0
		QA MS/MSD set				0	1	1	1	0	0	1	1	1	0	0	0	0	1	0	1	1	1	1	1	
		QA Trip blank					1	1	1										1	1	1					

Natural Attenuation measurements include - field parameters: pH , temperature, oxidation reduction, ferrous ion, dissolved oxygen, nitrate: lab parameters: alkalinity EPA 310, sulfate EPA 300, and methane, ethane, ethene.
Geotechnical parameters include - moisture content ASTM D2216, Sieve Analysis ASTM D-422, Dry Bulk Density ASTM D-2937, Specific Gravity ASTM D-854, Hydraulic conductivity ASTM D-4511, and porosity calculated
Water Quality Field parameters include - pH, conductivity, temperature, turbidity

Table 2-2 Northeast Cape 2001 Phase III RI
Sampling Summary
Northeast Cape, St. Lawrence Island, Alaska

Site No.	Site Description	Sample Location	Sample ID	Date	Time	Soil/Sediment												Groundwater/Surface Water								
						DRO/ RRO	GRO	GRO/ BTEX	VOCs	PAH SW8270C SIM	PCBs	Pesti-cides	TAL Metals	Pb	Pb, Zn, Cr	TOC	Pesticides	Geo-tech-nical	DRO	DRO/ RRO	GRO	GRO/ BTEX	VOCs	SVOCs	PAH SW8270C SIM	PCBs	TAL Metals
	METHOD					AK 102/ 103	AK 101	SW 8260B SIM	SW 8260B	SW 8270C SIM	SW 8082	SW 8081	SW 6010/ 7000	SW 7421	SW 6010B	LAB METHOD	SW8081		AK 102	AK 102/ 103 10	AK 101	AK101/SW 8260B 10	SW 8260	SW 8270	SW 8270C SIM	SW 8082	
13,15,	Main Complex	Groundwater (Monitoring Wells) 10 GW SAAMPLES	NO samples due to delay in demo																							
19,		Soil from Well Borings				10		10		10	10				10	10		3								
& 27		Soil from Soil Borings				12		12		12	12				12	12		1								
			01NE16SS167	9/24/01	1100												1									
			01NE16SS168	9/24/01	1100												1									
			01NE28SD183	9/24/01	1110												1									
			01NE28SD184	9/24/01	1115												1									
			01NE28SD185	9/24/01	1120												1									
			01NE28SD186	9/24/01	1125												1									
			01NE28SD187	9/24/01	1135												1									
			01NE28SD188	9/24/01	1305												1									
			01NE28SD189	9/24/01	1300												1									
			01NE28SD190	9/24/01	1140												1									
			01NE28SD191	9/24/01	1145												1									
			01NE28SD192	9/24/01	1150												1									
	01NE28SD192	FD	01NE28SD292	9/24/01	1155												FD									
	01NE28SD185	FD	01NE28SD285	9/24/01	1130												FD									
		Total Primary Samples				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**12**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
		QA/QC																								
		Field Duplicates				0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	3
		MS				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		MSD				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Trip blanks																								
		Equipment blanks																		0	0		0	0		0
		Total Samples				**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**14**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Key:
AST - aboveground storage tank
BTEX - benzene, toluene, ethylbenzene, and xylenes
Cr - chromium
DRO - diesel range organics
GRO - gasoline range organics
MS - matrix spike
MSD - matrix spike duplicate
PAH - polynuclear aromatic hydrocarbon
Pb - lead
PCB - polychlorinated biphenyl
QA/QC - quality assurance/quality control
RI/FS - Remedial Investigation/Feasibility Study
RRO - residual range organics
SIM - selected ion monitoring
SVOC - semi-volatile organic compound
TAL - target analyte list
TCLP - toxicity characteristic leaching procedure
TOC - total organic carbon
VOC - volatile organic compound
Zn - zinc

Attach this sheet to the COC going to CAS for Plant Tissue analysis.

PAHs include the following **(DO NOT REPORT ANY OTHER PAH COMPOUNDS)**:

2-methylnaphthalene
acenaphthene
anthracene
benzo(a)anthracene
benzo(a)pyrene
benzo(b)fluoranthene
benzo(g,h,i)perylene
benzo(k)fluoranthene
chrysene
dibenzo(a,h)anthracene
fluoranthene
fluorene
indeno(1,2,3-cd)pyrene
naphthalene
phenanthrene
pyrene

Metals include the following inorganic analytes **[critical PQLs are noted in ()]**:

- Arsenic (4.5 mg/Kg)
- Barium
- Cadmium (0.005 mg/Kg)
- Chromium
- Copper
- Lead
- Mercury (0.13 mg/Kg)
- Nickel
- Selenium (0.02 mg/Kg)
- Silver
- Vanadium
- Zinc

Whole plant tissue samples (root, stem, flower, and fruit) are to be analyzed with the exception of berry samples. Berries are to be analyzed separately.

Several samples collected from a single location may be combined in order to meet the PQL.

Plant roots are to be free from soil before sample preparation is begun.

One MS/MSD sample will be provided by MWH.

Results should be reported "as is". Do not determine moisture content.

Mingta Lin

From: Lynn.A.DeGeorge@us.mwhglobal.com
Sent: Thursday, August 16, 2001 11:46 AM
To: mlin@kelso.caslab.com
Cc: Eileen.M.Maus@us.mwhglobal.com; Jane.Whitsett@us.mwhglobal.com; William.A.O'Connell@us.mwhglobal.com; Bonnie.G.McLean@us.mwhglobal.com
Subject: NEC Fish /Plant Tissue Sampling

Mingta,

We are on schedule for the Northeast Cape fish tissue sampling. The field crew is scheduled to begin fishing on Saturday and we anticipate it will take 4 days to gather the fish we have been scoped to collect. If we are able to stick with our proposed schedule you should anticipate seeing samples toward the end of next week. We do not have a target date for the plant tissue sampling (berries).

We intend to freeze the fish in the field.

Discussions with USACE earlier this week indentified the portion of each fish we will be analyzing. I have attempted to summarize our discussion below. Please do not hesitate to give me a call if you have any questions or concerns.

A set of 6 fish (D. Varden) will be collected from the Suqi. River. They are to be at least 12 - 18 inches in size. Two of the female fish are to be divided by the lab and split into three individual samples: fish head, fish eggs, fillets (this will total 6 samples from these 2 fish). Each fish portion (head, fillet, eggs) will be analyzed for metals, PCB, and PAHs. There will be no compositing of samples. However, since reporting limits are critical to this project we will probably need to discuss the attainable reporting limits based on the egg volume and the fish head weights once you are able to divide the fish.

One six fish will be analyzed as follows. The fillet will be removed and analyzed for Metals, PCBs, and PAHs. Then the remaineder of the fish will be homogenized and it will be analyzed for metals, PCBs, and PAHs. (Apparently there is some value in evaluating the fillet portion vs the entire fish.)

The remaining 3 fish will have only their fillets analyzed for all three suites of analysis (Metals, PCBs, PAH).

A set of 4 fish (D. Varden) will be collected from reference locations. They are to be at least 12 - 18 inches in length. One female fish is to be divided by the lab and split into three individual samples: fish head, fish eggs, fillets (this will total 3 samples from this fish). Each fish portion (head, fillet, eggs) will be analyzed for metals, PCB, and PAHs.

One of the four fish will be analyzed as follows. The fillet will be removed and analyzed for Metals, PCBs, and PAHs. Then the remaineder of the fish will be homogenized and it will be analyzed for metals, PCBs, and PAHs.

The remaining 2 fish will have only their fillets analyzed for all three suites of analysis (Metals, PCBs, PAH).

Blackfish collected from the Suqi River will be analyzed as whole fish samples. We anticipate 3 blackfish samples. Each sample will be analyzed for metals, PCBs and PAHs.

There is the potential for collecting 9 more samples for analysis. These may be D. Varden, pinks (only if available), or blackfish.

Please note that it is still unclear if the fillet samples should include the skin. The client has changed their mind twice already. I will need to resolve this issue befor you begin preparing the fish for analysis.

Finally, we still have three plant tissue samples to collect. They will be the berries which were not available in July.

Lynn
(907)266-1105

Mingta Lin
From: Lynn.A.DeGeorge@us.mwhglobal.com
Sent: Friday, August 24, 2001 12:28 PM
To: mlin@kelso.caslab.com
Cc: Eileen.M.Maus@us.mwhglobal.com; Jane.Whitsett@us.mwhglobal.com
Subject: Fish samples/conversation record 082401

Mingta,

This e-mail documents our phone conversation earlier today. It provides a summary of the fish tissue sample analysis and recounts our discussion regarding turnaround times for the plant and fish tissue samples as well as the reduced plant tissue sample volumes that resulted from drying the plant tissue.

A summary of the fish tissue samples you should receive is provided below. There are a few more individual samples than we anticipated (we've gone from 18 to 30).

As we discussed over the phone and as communicated in my earlier e-mail the fish are to be dissected so that the portions consumed by the local population are analyzed. For example, a number of the female fish will be dissected into three samples (head, eggs, and fillets).

Four of the fish in the following list are to have the fillets removed and analyzed separately from the remained of the fish. The remains of these fish are to be homogenized and analyzed separately. They are marked as "Fillet, homogenize" in the list below. There are four fish to be subdivided in this manner.

01NE29FT103
01NE29FT107
01NE30FT102
01NE30FT105

A number of the fish will have only their fillets homogenized.

The blackfish (small in size) will be composited (the list says homogenize) into three individual samples.

ALL samples are to be analyzed for metals, PCBs, and PAHs.

Several weeks ago you informed me that the plant tissue results would be approximately 30 days late because we chose to allow them to air dry. Air drying has impacted the sample weight of a few of the samples reducing the sample volume from 12 to 7 grams for the smallest sample weight submitted. This will impact the reporting limit. You agreed to provide me with the approximate MRLs we will be dealing with for this and other small volume plant tissue samples.

The increase in fish tissue samples, the complicated dissection requirements, and the fact that your PCB lab is at capacity will extend the turn around time for the fish tissue analysis approximately 3 weeks. That gives us a due date of approximately October 15th. I agreed this would be acceptable.

That should be about it.
Lynn
907-266-1105

---------- Forwarded by Lynn A DeGeorge/User/Americas/Montgomery Watson on 08/24/2001 11:46 AM

"Geist, Lisa K POA02" <Lisa.K.Geist@poa02.usace.army.mil> on 08/24/2001

08:13:06 AM

To: Lynn.A.DeGeorge@us.mwhglobal.com
cc: Bruce Narloch <Bruce.A.Narloch@mw.com>
Subject: Fish samples

Lynn,

I was out at NE Cape yesterday, so I hope it isn't too late to pass this info on to your lab. Its my understanding all the fish were shipped out on wednesday night, including the "extra" fish caught. Therefore, please have the lab analyze the base samples as we discussed in your message (with 8 PPAQs to cover the various parts, blackfish and pink salmon). In addition, please have the lab analyze 2 additional DV fish from the Suqi River as follows: 1 fish - fillet and homogenize, 1 fish - fillet and eggs (for a total of 4 PPAQs). The fillets should be prepared with skin on.

So, to recap:

Dolly Varden from Suqi River

01NE29FT101 Female, dissect (head, eggs, fillet)
01NE29FT102 Female, dissect (head, eggs, fillet)
01NE29FT103 Fillet, homogenize
01NE29FT104 Fillet
01NE29FT105 Fillet
01NE29FT106 Fillet

01NE29FT107 Fillet, homogenize
01NE29FT108 Fillet, eggs

Dolly Varden from Tap River
01NE30FT101 Female, dissect (head, eggs, fillet)
01NE30FT102 Fillet, homogenize
01NE30FT103 Fillet

Pink Salmon from Tap River
01NE30FT104 Female, dissect (head, eggs, fillet)
01NE30FT105 Fillet, homogenize
01NE30FT106 Fillet

Blackfish from Drainage Basin
01NE28FT101 Homogenize
01NE28FT102 Homogenize
01NE28FT103 Homogenize

Total: 30 samples

Thank you,
Lisa

CoolerID/COC#: 01NECPT02

Northeast Cape, St. Lawrence Island,Alaska
Chain of Custody

K2105386

01-1107

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Eileen Maus

Laboratory:
Columbia Analytical Services
1317 South 13th Avenue
Kelso, WA. 98626
(360) 577-7222
Fax (360) 636-1068
Attn: Mingta Lin

MW Job Number:
1850574.260120
NPDL #01-065

Sampler's signature: William A. O'Connell Bonnie McLean

	Date	Time	Sample ID	Matrix	Total Containers	Plant Tissue: PAH SW8270C SIM Ziplock Bags w/ ~~wax paper~~	Plant Tissue: PCB SW8082 Ziplock Bags w/ ~~wax paper~~	Plant Tissue: Metals SW6000/7000 Ziplock Bags w/ ~~wax paper~~			Comments
1	7-25-01	1500	01NE28PT4101	PT	1	X	X	X			~~MS/MSD~~ Bo C
2	7-25-01	1530	01NE28PT4102	PT	1	X	X	X			
3	7-25-01	1600	01NE28PT5101	PT	1	X	X	X			
4	7-25-01	1620	01NE28PT5102	PT	1	X	X	X			
5	7-25-01	1640	01NE28PT5103	PT	1	X	X	X			
6	7-25-01	1700	01NE28PT5104	PT	1	X	X	X			MS/MSD
7	7-25-01	1715	01NE28PT5105	PT	1	X	X	X			
8	7-25-01	1730	01NE28PT5106	PT	1	X	X	X			Please see attached sheet for PAH and metals required.
9	7-25-01	1705	01NE28PT5204	PT	1	X	X	X			
10	7-25-01	1820	01NE28PT6101	PT	1	X	X	X			Please record temperature blank only in the space provided.
11	7-25-01	1830	01NE28PT6102	PT	1	X	X	X			
12	7-25-01	1850	01NE28PT6103	PT	1	X	X	X			

Following receipt of sample cooler, please fax CoC and Lab cooler check-in form to ~~Sandra Kimball~~ at Gerry Archibald (907) ~~353-7070~~ 255-2636 and Eileen Maus at (907) 248-8883

BOC

Relinquished by: William A. O'Connell Bonnie McLean	Date 7-27-01	Shipped via: AK Airlines Goldstreak	Shipping number: 1821 3985 Blank BOC
Company: Montgomery Watson	Time 1530		
Received by: Lori K. Hawn	Date 7/28/01	Relinquished by:	Date
Company: CTS-K	Time 1000	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Cooler temperature upon arrival: 0.5°C
mtl 10/23/01

Custody seal #s: 17696 17697

CoolerID/COC#: 01NECP, 3/

Northeast Cape, St. La...ence Island, Alaska
Chain of Custody

K2105386

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
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Attn: Mingta Lin

MW Job Number:
1850574.260120
NPDL #01-065

Sampler's signature: William A. Arnell / Bonnie McLean

	Date	Time	Sample ID	Matrix	Total Containers	Plant Tissue: PAH SW8270C SIM Ziplock Bags ~~w/ wax paper~~ AoC	PCB SW8082 Ziplock Bags ~~w/ wax paper~~ AoC	Metals SW6000/7000 Ziplock Bags ~~w/ wax paper~~ AoC			Comments
13	7-25-01	1220	01NE28PT1102	PT	1	X	X	X			
14	7-25-01	1200	01NE28PT1101	PT	1	X	X	X			
15	7-25-01	1240	01NE28PT2101	PT	1	X	X	X			
16	7-25-01	1300	01NE28PT2102	PT	1	X	X	X			
17	7-25-01	1320	01NE28PT3101	PT	1	X	X	X			
18	7-25-01	1340	01NE28PT3102	PT	1	X	X	X			
19	7-25-01	1400	01NE28PT3103	PT	1	X	X	X			
20	7-25-01	1430	01NE28PT3104	PT	1	X	X	X			Please see attached sheet for PAH and metals required.
											Please record temperature blank only in the space provided.
											Following receipt of sample cooler, please fax CoC and
											Lab cooler check-in form to Gerry Archibald at
											(907) 753-2636 and Eileen Maus at (907) 248-8883

Relinquished by: William A. Arnell / Bonnie McLean	Date 7-27-01	Shipped via:		Shipping number: 1821 4000
Company: Montgomery Watson	Time 1530			
Received by: Lori K. Hahn	Date 7/28/01	Relinquished by:	Date	Cooler temperature blank upon arrival: -0.1 °C with 10/23/01
Company: CAS-K	Time 1000	Company:	Time	
Received by:	Date	Relinquished by:	Date	Custody seal #s: 073335 073345
Company:	Time	Company:	Time	

Attach this sheet to the COC going to CAS for Plant Tissue analysis.

PAHs include the following **(DO NOT REPORT ANY OTHER PAH COMPOUNDS):**

2-methylnaphthalene
acenaphthene
anthracene
benzo(a)anthracene
benzo(a)pyrene
benzo(b)fluoranthene
benzo(g,h,i)perylene
benzo(k)fluoranthene
chrysene
dibenzo(a,h)anthracene
fluoranthene
fluorene
indeno(1,2,3-cd)pyrene
naphthalene
phenanthrene
pyrene

Metals include the following inorganic analytes **[critical PQLs are noted in ()]:**

Arsenic (4.5 mg/Kg)
Barium
Cadmium (0.005 mg/Kg)
Chromium
Copper
Lead
Mercury (0.13 mg/Kg)
Nickel
Selenium (0.02 mg/Kg)
Silver
Vanadium
Zinc

Whole plant tissue samples (root, stem, flower, and fruit) are to be analyzed with the exception of berry samples. Berries are to be analyzed separately.

Several samples collected from a single location may be combined in order to meet the PQL.

Plant roots are to be free from soil before sample preparation is begun.

One MS/MSD sample will be provided by MWH.

Results should be reported "as is". Do not determine moisture content.

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Form

Project/Client Mnt. Watson Work Order K21 5386

Cooler received on 7/28/11 and opened on 7/28/11 by TBlack

1.	Were custody seals on outside of cooler? AKES If yes, how many and where? 1 front					YES NO
2.	Were seals intact and signature & date correct?					YES NO
3.	COC # 01 NECPT02					
	Temperature of cooler(s) upon receipt: 3.9					
	Temperature Blank: 0.5					
4.	Were custody papers properly filled out (ink, signed, etc.)?					YES NO
5.	Type of packing material present gel packs - bags					
6.	Did all bottles arrive in good condition (unbroken)?					YES NO
7.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?					YES NO
8.	Did all bottle labels and tags agree with custody papers?					YES NO
9.	*Were the correct types of bottles used for the tests indicated?*					*YES NO*
10.	Were all of the preserved bottles received at the lab with the appropriate pH?					~~YES NO~~
11.	Were VOA vials checked for absence of air bubbles, and if present, noted below?					~~YES NO~~
12.	Did the bottles originate from CAS/K or a branch laboratory?					YES NO

Explain any discrepancies

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

00011

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Form

Project/Client Mont Watson Work Order K21 5386

Cooler received on 7/28/07 and opened on 7/28/07 by TBlack

1. Were custody seals on outside of cooler? AKGstrat YES NO
   If yes, how many and where? 1-front
2. Were seals intact and signature & date correct? YES NO
3. COC # 61NECPT01
   Temperature of cooler(s) upon receipt: 5.7
   Temperature Blank: -0.1
4. Were custody papers properly filled out (ink, signed, etc.)? YES NO
5. Type of packing material present bags-gel packs
6. Did all bottles arrive in good condition (unbroken)? YES NO
7. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES NO
8. Did all bottle labels and tags agree with custody papers? YES NO
9. *Were the correct types of bottles used for the tests indicated?* YES NO
10. Were all of the preserved bottles received at the lab with the appropriate pH? YES NO
11. Were VOA vials checked for absence of air bubbles, and if present, noted below? YES NO
12. Did the bottles originate from CAS/K or a branch laboratory? YES NO

Explain any discrepancies

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

00012

Attach this sheet to the COC going to CAS for Fish Tissue analysis.

PAHs include the following **(DO NOT REPORT ANY OTHER PAH COMPOUNDS):**

2-methylnaphthalene
acenaphthene
anthracene
benzo(a)anthracene
benzo(a)pyrene
benzo(b)fluoranthene
benzo(g,h,i)perylene
benzo(k)fluoranthene
chrysene
dibenzo(a,h)anthracene
fluoranthene
fluorene
indeno(1,2,3-cd)pyrene
naphthalene
phenanthrene
pyrene

The PQL for PCBs is 16 ppb. Adequate sample volume should be used to meet this PQL.

The PAH PQL is 5 mg/Kg for all compounds with the exception of 2-methylnaphthalene which is 50 ug/kg.

Fish tissue samples are to be composited by the laboratory. Bones and guts are to be removed from the fish. For the salmon species (pinks and Dolly Varden) fillets (without the skin), fish heads, and eggs are to be analyzed separately.

Blackfish samples will be analyzed as whole fish composites.

Results should be reported "as is". Do not determine moisture content.

Mingta Lin

From: Lynn.A.DeGeorge@us.mwhglobal.com
Sent: Thursday, August 16, 2001 11:46 AM
To: mlin@kelso.caslab.com
Cc: Eileen.M.Maus@us.mwhglobal.com; Jane.Whitsett@us.mwhglobal.com; William.A.O'Connell@us.mwhglobal.com; Bonnie.G.McLean@us.mwhglobal.com
Subject: NEC Fish /Plant Tissue Sampling

Mingta,

We are on schedule for the Northeast Cape fish tissue sampling. The field crew is scheduled to begin fishing on Saturday and we anticipate it will take 4 days to gather the fish we have been scoped to collect. If we are able to stick with our proposed schedule you should anticipate seeing samples toward the end of next week. We do not have a target date for the plant tissue sampling (berries).

We intend to freeze the fish in the field.

Discussions with USACE earlier this week indentified the portion of each fish we will be analyzing. I have attempted to summarize our discussion below. Please do not hesitate to give me a call if you have any questions or concerns.

A set of 6 fish (D. Varden) will be collected from the Suqi. River. They are to be at least 12 - 18 inches in size. Two of the female fish are to be divided by the lab and split into three individual samples: fish head, fish eggs, fillets (this will total 6 samples from these 2 fish). Each fish portion (head, fillet, eggs) will be analyzed for metals, PCB, and PAHs. There will be no compositing of samples. However, since reporting limits are critical to this project we will probably need to discuss the attainable reporting limits based on the egg volume and the fish head weights once you are able to divide the fish.

One six fish will be analyzed as follows. The fillet will be removed and analyzed for Metals, PCBs, and PAHs. Then the remaineder of the fish will be homogenized and it will be analyzed for metals, PCBs, and PAHs. (Apparently there is some value in evaluating the fillet portion vs the entire fish.)

The remaining 3 fish will have only their fillets analyzed for all three suites of analysis (Metals, PCBs, PAH).

A set of 4 fish (D. Varden) will be collected from reference locations. They are to be at least 12 - 18 inches in length. One female fish is to be divided by the lab and split into three individual samples: fish head, fish eggs, fillets (this will total 3 samples from this fish). Each fish portion (head, fillet, eggs) will be analyzed for metals, PCB, and PAHs.

One of the four fish will be analyzed as follows. The fillet will be removed and analyzed for Metals, PCBs, and PAHs. Then the remaineder of the fish will be homogenized and it will be analyzed for metals, PCBs, and PAHs.

The remaining 2 fish will have only their fillets analyzed for all three suites of analysis (Metals, PCBs, PAH).

Blackfish collected from the Suqi River will be analyzed as whole fish samples. We anticipate 3 blackfish samples. Each sample will be analyzed for metals, PCBs and PAHs.

There is the potential for collecting 9 more samples for analysis. These may be D. Varden, pinks (only if available), or blackfish.

Please note that it is still unclear if the fillet samples should include the skin. The client has changed their mind twice already. I will need to resolve this issue befor you begin preparing the fish for analysis.

Finally, we still have three plant tissue samples to collect. They will be the berries which were not available in July.

Lynn
(907)266-1105

Mingta Lin
From: Lynn.A.DeGeorge@us.mwhglobal.com
Sent: Friday, August 24, 2001 12:28 PM
To: mlin@kelso.caslab.com
Cc: Eileen.M.Maus@us.mwhglobal.com; Jane.Whitsett@us.mwhglobal.com
Subject: Fish samples/conversation record 082401

Mingta,

This e-mail documents our phone conversation earlier today. It provides a summary of the fish tissue sample analysis and recounts our discussion regarding turnaround times for the plant and fish tissue samples as well as the reduced plant tissue sample volumes that resulted from drying the plant tissue.

A summary of the fish tissue samples you should receive is provided below. There are a few more individual samples than we anticipated (we've gone from 18 to 30).

As we discussed over the phone and as communicated in my earlier e-mail the fish are to be dissected so that the portions consumed by the local population are analyzed. For example, a number of the female fish will be dissected into three samples (head, eggs, and fillets).

Four of the fish in the following list are to have the fillets removed and analyzed separately from the remained of the fish. The remains of these fish are to be homogenized and analyzed separately. They are marked as "Fillet, homogenize" in the list below. There are four fish to be subdivided in this manner.

01NE29FT103
01NE29FT107
01NE30FT102
01NE30FT105

A number of the fish will have only their fillets homogenized.

The blackfish (small in size) will be composited (the list says homogenize) into three individual samples.

ALL samples are to be analyzed for metals, PCBs, and PAHs.

Several weeks ago you informed me that the plant tissue results would be approximately 30 days late because we chose to allow them to air dry. Air drying has impacted the sample weight of a few of the samples reducing the sample volume from 12 to 7 grams for the smallest sample weight submitted. This will impact the reporting limit. You agreed to provide me with the approximate MRLs we will be dealing with for this and other small volume plant tissue samples.

The increase in fish tissue samples, the complicated dissection requirements, and the fact that your PCB lab is at capacity will extend the turn around time for the fish tissue analysis approximately 3 weeks. That gives us a due date of approximately October 15th. I agreed this would be acceptable.

That should be about it.
Lynn
907-266-1105

---------- Forwarded by Lynn A DeGeorge/User/Americas/Montgomery Watson on 08/24/2001 11:46 AM

"Geist, Lisa K POA02" <Lisa.K.Geist@poa02.usace.army.mil> on 08/24/2001

08:13:06 AM

To: Lynn.A.DeGeorge@us.mwhglobal.com
cc: Bruce Narloch <Bruce.A.Narloch@mw.com>
Subject: Fish samples

Lynn,

I was out at NE Cape yesterday, so I hope it isn't too late to pass this info on to your lab. Its my understanding all the fish were shipped out on wednesday night, including the "extra" fish caught. Therefore, please have the lab analyze the base samples as we discussed in your message (with 8 PPAQs to cover the various parts, blackfish and pink salmon). In addition, please have the lab analyze 2 additional DV fish from the Suqi River as follows: 1 fish - fillet and homogenize, 1 fish - fillet and eggs (for a total of 4 PPAQs). The fillets should be prepared with skin on.

So, to recap:

Dolly Varden from Suqi River

01NE29FT101 Female, dissect (head, eggs, fillet)
01NE29FT102 Female, dissect (head, eggs, fillet)
01NE29FT103 Fillet, homogenize
01NE29FT104 Fillet
01NE29FT105 Fillet
01NE29FT106 Fillet

01NE29FT107 Fillet, homogenize
01NE29FT108 Fillet, eggs

Dolly Varden from Tap River
01NE30FT101 Female, dissect (head, eggs, fillet)
01NE30FT102 Fillet, homogenize
01NE30FT103 Fillet

Pink Salmon from Tap River
01NE30FT104 Female, dissect (head, eggs, fillet)
01NE30FT105 Fillet, homogenize
01NE30FT106 Fillet

Blackfish from Drainage Basin
01NE28FT101 Homogenize
01NE28FT102 Homogenize
01NE28FT103 Homogenize

Total: 30 samples

Thank you,
Lisa

Columbia Analytical Services -- Kelso
INTERNAL LOGIN SUMMARY REPORT (il01)
31-OCT-01 11:42

00011

Service Req. No. K2106278
Client No. 136500
Client Name Montgomery Watson, Inc.

Bill To: Montgomery Watson Americas, Inc.
Attn: Accounts Payable
4100 Spenard Road
Anchorage, AK 99517

P.O. No.
Logged In By FADAIR
ISR Num
COC Received Y
Samples Submitted 24-AUG-01

Project No. 1850574.260120
Project Name Northeast Cape, St. Lawrence Island

Report To: Montgomery Watson Americas, Inc.
Jane Whitsett
4100 Spenard Road
Anchorage, AK 99517

Site ID
Project Chemist Mingta Lin

Bottles: 1 - 8 oz Glass
37 - Baggie

Storage: KRYPTON 6

CAS Samp No.	Client Sample No.	Matrix	Collected	DueDate	8082-AR-L	CR/ICP	DOD-QA-REV	HG/CVAA HOLD	ICP/MS-10	LIPIDS-SVG
K2106278-001	01NE29FT101 Head	TISSUE	08:51 21-AUG-01	23-SEP-01	V	V	V	V	V	V
K2106278-002	01NE29FT101 Eggs	TISSUE	08:51 21-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-003	01NE29FT101 Fillet	TISSUE	08:51 21-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-004	01NE29FT102 Head	TISSUE	08:51 21-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-005	01NE29FT102 Eggs	TISSUE	08:51 21-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-006	01NE29FT102 Fillet	TISSUE	08:51 21-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-007	01NE29FT103 Fillet	TISSUE	08:51 21-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-008	01NE29FT103 Remains	TISSUE	08:51 21-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-009	01NE29FT104 Fillet	TISSUE	08:51 21-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-010	01NE29FT105 Fillet	TISSUE	10:47 21-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-011	01NE29FT106 Fillet	TISSUE	10:47 21-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-012	01NE29FT107 Fillet	TISSUE	10:47 21-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-013	01NE29FT107 Remains	TISSUE	10:47 21-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-014	01NE29FT108 Fillet	TISSUE	08:00 22-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-015	01NE29FT108 Egg	TISSUE	08:00 22-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-016	01NE29FT109	TISSUE	08:00 22-AUG-01	23-SEP-01				V		
K2106278-017	01NE29FT110	TISSUE	08:00 22-AUG-01	23-SEP-01				V		
K2106278-018	01NE29FT111	TISSUE	08:00 22-AUG-01	23-SEP-01				V		
K2106278-019	01NE29FT112	TISSUE	08:00 22-AUG-01	23-SEP-01				V		
K2106278-020	01NE29FT113	TISSUE	08:00 22-AUG-01	23-SEP-01				V		
K2106278-021	01NE29FT114	TISSUE	08:00 22-AUG-01	23-SEP-01				V		
K2106278-022	01NE29FT115	TISSUE	08:00 22-AUG-01	23-SEP-01				V		
K2106278-023	01NE30FT101 Head	TISSUE	10:22 21-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-024	01NE30FT101 Eggs	TISSUE	10:22 21-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-025	01NE30FT101 Fillet	TISSUE	10:22 21-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-026	01NE30FT102 Fillet	TISSUE	10:22 21-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-027	01NE30FT102 Remains	TISSUE	10:22 21-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-028	01NE30FT103 Fillet	TISSUE	10:22 21-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-029	01NE30FT104 Head	TISSUE	20:15 20-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-030	01NE30FT104 Remains	TISSUE	20:15 20-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-031	01NE30FT105 Egg	TISSUE	20:15 20-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-032	01NE30FT105 Fillet	TISSUE	20:15 20-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-033	01NE30FT105 Remains	TISSUE	20:15 20-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-034	01NE30FT106 Fillet	TISSUE	20:15 20-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-035	01NE28FT101 Blackfish	TISSUE	11:19 19-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-036	01NE28FT102 Blackfish	TISSUE	11:19 19-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-037	01NE28FT103 Blackfish	TISSUE	11:19 19-AUG-01	23-SEP-01	V	V		V	V	V
K2106278-038	01NE28PT5107	TISSUE	15:30 20-AUG-01	23-SEP-01	V	V		V	V	

Samples Found To Be Hazardous: NONE__ ALL__ *SOME__

Reviewed By:_____

Columbia Analytical Services -- Kelso
INTERNAL LOGIN SUMMARY REPORT (il01)
31-OCT-01 11:42

00012

Service Req. No. K2106278
Client No. 136500
Client Name Montgomery Watson, Inc.

Project No. 1850574.260120
Project Name Northeast Cape, St. Lawrence Island

Bottles: 1 - 8 oz Glass
37 - Baggie

Bill To: Montgomery Watson Americas, Inc.
Attn: Accounts Payable
4100 Spenard Road
Anchorage, AK 99517

Report To: Montgomery Watson Americas, Inc.
Jane Whitsett
4100 Spenard Road
Anchorage, AK 99517

P.O. No.
Logged In By FADAIR
ISR Num
COC Received Y
Samples Submitted 24-AUG-01

Site ID
Project Chemist Mingta Lin

Storage: KRYPTON 6

CAS Samp No.	Client Sample No.	Matrix	Collected	DueDate	MISC METALS	MISC-SVG-GC	SIM-PAH	~DIGEST
K2106278-001	01NE29FT101 Head	TISSUE	08:51 21-AUG-01	23-SEP-01	V	V	V	V
K2106278-002	01NE29FT101 Eggs	TISSUE	08:51 21-AUG-01	23-SEP-01	V	V	V	V
K2106278-003	01NE29FT101 Fillet	TISSUE	08:51 21-AUG-01	23-SEP-01	V	V	V	V
K2106278-004	01NE29FT102 Head	TISSUE	08:51 21-AUG-01	23-SEP-01	V	V	V	V
K2106278-005	01NE29FT102 Eggs	TISSUE	08:51 21-AUG-01	23-SEP-01	V	V	V	V
K2106278-006	01NE29FT102 Fillet	TISSUE	08:51 21-AUG-01	23-SEP-01	V	V	V	V
K2106278-007	01NE29FT103 Fillet	TISSUE	08:51 21-AUG-01	23-SEP-01	V	V	V	V
K2106278-008	01NE29FT103 Remains	TISSUE	08:51 21-AUG-01	23-SEP-01	V	V	V	V
K2106278-009	01NE29FT104 Fillet	TISSUE	08:51 21-AUG-01	23-SEP-01	V	V	V	V
K2106278-010	01NE29FT105 Fillet	TISSUE	10:47 21-AUG-01	23-SEP-01	V	V	V	V
K2106278-011	01NE29FT106 Fillet	TISSUE	10:47 21-AUG-01	23-SEP-01	V	V	V	V
K2106278-012	01NE29FT107 Fillet	TISSUE	10:47 21-AUG-01	23-SEP-01	V	V	V	V
K2106278-013	01NE29FT107 Remains	TISSUE	10:47 21-AUG-01	23-SEP-01	V	V	V	V
K2106278-014	01NE29FT108 Fillet	TISSUE	08:00 22-AUG-01	23-SEP-01	V	V	V	V
K2106278-015	01NE29FT108 Egg	TISSUE	08:00 22-AUG-01	23-SEP-01	V	V	V	V
K2106278-016	01NE29FT109	TISSUE	08:00 22-AUG-01	23-SEP-01				
K2106278-017	01NE29FT110	TISSUE	08:00 22-AUG-01	23-SEP-01				
K2106278-018	01NE29FT111	TISSUE	08:00 22-AUG-01	23-SEP-01				
K2106278-019	01NE29FT112	TISSUE	08:00 22-AUG-01	23-SEP-01				
K2106278-020	01NE29FT113	TISSUE	08:00 22-AUG-01	23-SEP-01				
K2106278-021	01NE29FT114	TISSUE	08:00 22-AUG-01	23-SEP-01				
K2106278-022	01NE29FT115	TISSUE	08:00 22-AUG-01	23-SEP-01				
K2106278-023	01NE30FT101 Head	TISSUE	10:22 21-AUG-01	23-SEP-01	V	V	V	V
K2106278-024	01NE30FT101 Eggs	TISSUE	10:22 21-AUG-01	23-SEP-01	V	V	V	V
K2106278-025	01NE30FT101 Fillet	TISSUE	10:22 21-AUG-01	23-SEP-01	V	V	V	V
K2106278-026	01NE30FT102 Fillet	TISSUE	10:22 21-AUG-01	23-SEP-01	V	V	V	V
K2106278-027	01NE30FT102 Remains	TISSUE	10:22 21-AUG-01	23-SEP-01	V	V	V	V
K2106278-028	01NE30FT103 Fillet	TISSUE	10:22 21-AUG-01	23-SEP-01	V	V	V	V
K2106278-029	01NE30FT104 Head	TISSUE	20:15 20-AUG-01	23-SEP-01	V	V	V	V
K2106278-030	01NE30FT104 Remains	TISSUE	20:15 20-AUG-01	23-SEP-01	V	V	V	V
K2106278-031	01NE30FT105 Egg	TISSUE	20:15 20-AUG-01	23-SEP-01	V	V	V	V
K2106278-032	01NE30FT105 Fillet	TISSUE	20:15 20-AUG-01	23-SEP-01	V	V	V	V
K2106278-033	01NE30FT105 Remains	TISSUE	20:15 20-AUG-01	23-SEP-01	V	V	V	V
K2106278-034	01NE30FT106 Fillet	TISSUE	20:15 20-AUG-01	23-SEP-01	V	V	V	V
K2106278-035	01NE28FT101 Blackfish	TISSUE	11:19 19-AUG-01	23-SEP-01	V	V	V	V
K2106278-036	01NE28FT102 Blackfish	TISSUE	11:19 19-AUG-01	23-SEP-01	V	V	V	V
K2106278-037	01NE28FT103 Blackfish	TISSUE	11:19 19-AUG-01	23-SEP-01	V	V	V	V
K2106278-038	01NE28PT5107	TISSUE	15:30 20-AUG-01	23-SEP-01	V	V	V	V

Comments:

K2106278 ICP/MS-10: = Sb,As,Ba,Cd,Cr,Pb,Ni,Ag,V,Zn.

Samples Found To Be Hazardous: NONE__ ALL__ *SOME__

Reviewed By:_____

Columbia Analytical Services -- Kelso
INTERNAL LOGIN SUMMARY REPORT (il01)
31-OCT-01 11:42

00013

Service Req. No.	K2106278	Project No.	1850574.260120	Bottles: 1 - 8 oz Glass
Client No.	136500	Project Name	Northeast Cape, St. Lawrence Island	37 - Baggie
Client Name	Montgomery Watson, Inc.			

Bill To:	Montgomery Watson Americas, Inc. Attn: Accounts Payable 4100 Spenard Road Anchorage, AK 99517	Report To:	Montgomery Watson Americas, Inc. Jane Whitsett 4100 Spenard Road Anchorage, AK 99517

P.O. No.		Site ID	
Logged In By	FADAIR	Project Chemist	Mingta Lin
ISR Num			
COC Received	Y		
Samples Submitted	24-AUG-01		Storage: KRYPTON 6

CAS Samp No.	Client Sample No.	Matrix	Collected	DueDate	MISC METALS	MISC-SVG-GC	SIM-PAH	~DIGEST

K2106278 MISC METALS: = Se by EPA 7742.

Samples Found To Be Hazardous: NONE__ ALL__ *SOME__

Reviewed By:_____

Northeast Cape, St. Lawrence Island, Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC F 32

00014

K2106278

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Columbia Analytical Services
1317 South 13th Avenue
Kelso, WA. 98626
(360) 577-7222
Fax (360) 636-1068
Attn: Mingta Lin

MW Job Number:
1850574.260120
NPDL #01-065
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: William A. O'Connell

Date	Time	Sample ID	Matrix	Total Containers	Fish Tissue, Freeze: PAH SW8270C SIM Ziplock Bags	PCB SW8082 Ziplock Bags	% Lipids PSEP Gravimetrix Method Ziplock Bags	Metals SW6000/7000 Ziplock bags	Comments
8-21-01	0851	ØINE29FT101	tissue	1					Female dissect (head, eggs, Fillet)
8-21-01	0851	ØINE29FT102	tissue	1					Female dissect (head, eggs, Fillet)
8-21-01	0851	ØINE29FT103	tissue	1					Fillet, Homogenize
8-21-01	0851	ØINE29FT104	tissue	1					Fillet
8-20-01	1047	ØINE29FT105	tissue	1					Fillet
8-20-01	1047	ØINE29FT106	tissue	1					Fillet
8-20-01	1047	ØINE29FT107	tissue	1					~~Fillet~~ additional sample
8-22-01	0800	ØINE29FT108	tissue	1					additional sample
8-22-01	0800	ØINE29FT109	tissue	1					additional sample
8-22-01	0800	ØINE29FT110	tissue	1					additional sample
8-22-01	0800	ØINE29FT111	tissue	1					additional sample
8-22-01	0800	ØINE29FT112	tissue	1					additional sample
8-22-01	0800	ØINE29FT113	tissue	1					additional sample
8-22-01	0800	ØINE29FT114	tissue	1					additional sample
8-22-01	0800	ØINE29FT115	tissue	1					additional sample

Please see attached sheet for PAH and metals required.

Please record temperature blank only in the space provided.

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8883

Relinquished by: William A. O'Connell	Date 8-23-01	Shipped via: Alt. Air Goldstreak	Shipping number: 1720 4596
Company: Montgomery Watson	Time 1200		
Received by: Fran Olsen	Date 8/24/01	Relinquished by: Date	Temperature blank temperature upon arrival: °C
Company: OAS	Time 1022	Company: Time	
Received by: Date		Relinquished by: Date	Custody seal #s: 17863 17860
Company: Time		Company: Time	

Northeast Cape, St. Lawrence Island, Alaska. 2001 Chain of Custody

Cooler ID/COC#: Ø1NEC FT Ø1

00015

IC2106278

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Columbia Analytical Services
1317 South 13th Avenue
Kelso, WA. 98626
(360) 577-7222
Fax (360) 636-1068
Attn: Mingta Lin

MW Job Number:
1850574.260120
NPDL #01-065
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: William A. O'Connell

Date	Time	Sample ID	Matrix	Total Containers	PAH SW8270C SIM Ziplock Bags	PCB SW8082 Ziplock Bags	% Lipids PSEP Gravimetrix Method Ziplock Bags	Metals SW6000/7000 Ziplock bags	Comments
					Fish Tissue, Freeze				
8-21-01	1022	Ø1NE3ØFT101	tissue	1	✓	✓	✓	✓ DS	Female dissect (head, eggs, Fillet)
8-21-01	1022	Ø1NE3ØFT102	tissue	1	✓	✓	✓	✓	Fillet, homogenize
8-21-01	1022	Ø1NE3ØFT103	tissue	1	✓	✓ DS	✓	✓ DS	Fillet
8-20-01	2015	Ø1NE3ØFT104	tissue	1	✓	✓	✓	✓	Fillet
8-20-01	2015	Ø1NE3ØFT105	tissue	1	✓	✓	✓	✓	Fillet
8-20-01	2015	Ø1NE3ØFT106	tissue	1	✓	✓	✓	✓	Fillet
8-19-01	1119	Ø1NE28FT101	tissue	1	✓	✓	✓	✓	Blackfish
8-19-01	1119	Ø1NE28FT102	tissue	1	✓	✓	✓	✓	Blackfish
8-19-01	0919	Ø1NE28FT103	tissue	1	✓	✓	✓	✓	Blackfish
									Please see attached sheet for PAH and metals required.

Please record temperature blank only in the space provided.

Following receipt of sample coolers, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8883

Relinquished by: William A. O'Connell	Date 8-23-01	Shipped via: AK. air. Goldstreak	Shipping number: 1720 4600
Company: Montgomery Watson	Time 1200		
Received by: Jean Blanc	Date 8/24/01	Relinquished by:	Date
Company: CAS	Time 1000	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: °C

Custody seal #s: 17866 17867

Cooler#: COC#: 0- 07 PT

00016

Northeast Cape, St. Lawrence Island,Alaska
Chain of Custody

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Eileen Maus

Laboratory:
Columbia Analytical Services
1317 South 13th Avenue
Kelso, WA. 98626
(360) 577-7222
Fax (360) 636-1068
Attn: Mingta Lin

MW Job Number:
1850574.260120
NPDL #01-065

Sampler's signature: Bonnie Mcha

Date 2001	Time	Sample ID	Matrix	Total Containers	Plant Tissue: PAH SW8270C SIM Ziplock Bags w/ wax paper (1-902 Jar)	Plant Tissue: PCB SW8682 Ziplock Bags w/ wax paper	Plant Tissue: Metals SW6000/7000 Ziplock Bags w/ wax paper			Comments
8-20	1530	01 NE 28 PT5 107	P	1	X ✓	✓	✓			MS/MSD
										Please see attached sheet for PAH and metals required.
										Please record temperature blank only in the space provided.
										Following receipt of sample cooler, please fax CoC and
										Lab cooler check-in form to Sandra Kimbrell at
										(907) 353-7070 and Eileen Maus at (907) 248-8883

Relinquished by: Bonnie Mcha	Date 8-22-01	Shipped via: 027 ANC AKAL 17204596			Shipping number:
Company: Montgomery Watson	Time 1900				
Received by:	Date	Relinquished by:	Date		Cooler temperature upon arrival: °C
Company:	Time	Company:	Time		
Received by:	Date	Relinquished by:	Date		Custody seal #s:
Company:	Time	Company:	Time		17866 17867

Alaska G-S.

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Form

Project/Client Montgomery Watson Work Order K21 06278

Cooler received on 8/24/01 and opened on 8/28/01 by UCH

1. Were custody seals on outside of cooler? YES NO
   If yes, how many and where? Front
2. Were seals intact and signature & date correct? EXCEPT YES NO
3. COC # 01EXCEPT01 01EXCEPT02 ____ ____ ____
   Temperature of cooler(s) upon receipt: 3.7° 0.4 ____ ____ ____
   Temperature Blank: FROZEN FROZEN ____ ____ ____
4. Were custody papers properly filled out (ink, signed, etc.)? YES NO
5. Type of packing material present NONE
6. Did all bottles arrive in good condition (unbroken)? YES NO
7. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES NO
8. Did all bottle labels and tags agree with custody papers? YES NO
9. *Were the correct types of bottles used for the tests indicated?* YES NO
10. Were all of the preserved bottles received at the lab with the appropriate pH? ~~YES NO~~
11. Were VOA vials checked for absence of air bubbles, and if present, noted below? ~~YES NO~~
12. Did the bottles originate from CAS/K or a branch laboratory? ____ YES NO

Explain any discrepancies ____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

* per Mingta freeze samples until further notice ... 8/24/01

00017

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

Cooler ID/COC#: 01 C25

DN38

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Tracy Grant Melissa Markell

Date 2001	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B~~7000~~ Pb, Zn, Cr 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
8-20	1450	01NE28SD165	SD	5	(X)				(X)	X	X	X	
8-20	1455	01NE28SD166	SD	5	X				X	X	X	X	
8-20	1505	01NE28SD167	SD	5	X				X	X	X	X	01NE28SD167
8-20	1510	01NE28SD168	SD	5	X				X	X	X	X	
8-20	1515	01NE28SD169	SD	5	X				X	X	X	X	
8-20	1530	01NE28SD170	SD	5	X				X	X	X	X	

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Eileen Mews	Date 8-22-01	Shipped via: AK AL GO PRI	Shipping number: 027 2754 1135
Company: Montgomery Watson	Time 1730		
Received by: Susan Snyder	Date 8-24-01	Relinquished by:	Date
Company: ARI	Time 955	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 0.5 °C

Custody seal #s: 17785, 17780

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC 17

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround Melissa Markell

Sampler's signature: Douglas Quist Buncharoen

Date	Time	Sample ID	Matrix	Total Containers	SOIL, Cool to 4°C: DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B/~~7000~~ Pb, Zn, Cr 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
8/19/01	1610	01NE28SD153	SD	5	1 ✓				1 ✓	1 ✓	1 ✓	1 ✓	
8/19/01	1615	01NE28SD253	SD	4	1 ✓				1 ✓	1 ✓	1 ✓		
8/19/01	1620	01NE28SD154	SD	5	1 ✓				1 ✓	1 ✓	1 ✓	1 ✓	
8/19/01	1625	01NE28SD155	SD	5	1 ✓				1 ✓	1 ✓	1 ✓	1 ✓	
8/19/01	1630	01NE28SD156	SD	5	1 ✓				1 ✓	1 ✓	1 ✓	1 ✓	
8/19/01	1635	01NE28SD157	SD	5	1 ✓				1 ✓	1 ✓	1 ✓	1 ✓	
8/19/01	1640	01NE28SD257	SD	4	1 ✓				1 ✓	1 ✓	1 ✓		
8/19/01	1645	01NE28SD158	SD	5	1 ✓				1 ✓	1 ✓	1 ✓	1 ✓	

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Eileen Maus	Date 8/20/01	Shipped via: GO-PRI AK Airlines	Shipping number: 2754 1146
Company: Montgomery Watson	Time 1000		
Received by: Susan Snyder	Date 8/21/01	Relinquished by:	Date
Company: ARI	Time 2215	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 5.5°C °C

Custody seal #s: 17573, 17984

Incorporated

ARI Client: Montgomery Watson Project: Northeast Cape

Delivered by: ak airlines Tracking No.: 027275411 46 Date: 8/21/01

ARI Project No. _____ LIMS Nos.: _____

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler?	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink,signed,etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted by: [signature] Date: 8/21/01 Time: 2215

Log-in Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	5.5	degrees C
7.	What kind of packing material was used?	Bubblewrap	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	(Yes)	No
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	(Yes)	No
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	Yes	(No)
15.	Were all VOA vials free of air bubbles?	Yes NA	No
16.	Was sufficient amount of sample sent in each bottle?	(Yes)	No
17.	Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened by: [signature] Date: 8/21/01 Time: 2215

Explain any discrepancies or negative responses:

PLEASE TYPE

027 | Airport of Departure 2754 1146 | Subject to Conditions of Contract on the Back of the Airbill | INSURANCE AVAILABLE | 027 2754 1146

SHIPPERS NAME AND ADDRESS	SHIPPERS ACCOUNT NUMBER
Montgomery Watson Harza 4100 Spenard Road Anchorage, AK 99517 Site: Northeast Cape	2744-006515-1

NOT NEGOTIABLE
AIR WAYBILL
(AIR CONSIGNMENT NOTE)

Alaska Airlines
SEATTLE-TACOMA INTERNATIONAL AIRPORT
SEATTLE, WASHINGTON

Copies 3, 9 and 1 of this Air Waybill are originals and have the same validity.

It is agreed that the goods described herein are accepted for carriage in apparent good order and condition (except as noted) and SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY.

CONSIGNEE'S NAME AND ADDRESS	CONSIGNEE'S ACCOUNT NUMBER
ARI 333 Ninth Avenue North Seattle, WA 98109-5187	

TO EXPEDITE MOVEMENT, SHIPMENT MAY BE DIVERTED TO MOTOR OR OTHER CARRIER AS PER TARIFF RULE UNLESS SHIPPER GIVES OTHER INSTRUCTIONS HEREON.

ISSUING CARRIER'S AGENT NAME AND CITY

ALSO NOTIFY NAME AND ADDRESS *(OPTIONAL ACCOUNTING INFORMATION)*
Call Upon Arrival 206-389-6167
KEEP COOL - DO NOT FREEZE

AGENTS IATA CODE | ACCOUNT NO.

AIRPORT OF DEPARTURE (ADDR OF FIRST CARRIER) AND REQUESTED ROUTING

☐ DOOR-TO-DOOR ☐ DOMESTIC
☒ PRIORITY ☐ INTERNATIONAL

ROUTING AND DESTINATION TO	BY FIRST CARRIER	TO	BY	TO	BY

CURRENCY	CHGS CODE	WT/VAL PPD	WT/VAL COLL	OTHER PPD	OTHER COLL	DECLARED VALUE FOR CARRIAGE	DECLARED VALUE FOR CUSTOMS

AIRPORT OF DESTINATION	FOR CARRIER USE ONLY FLIGHT/DATE	FLIGHT/DATE	AMOUNT OF INSURANCE	INSURANCE - If shipper requests insurance in accordance with conditions on reverse hereof, indicate amount to be insured in figures in box marked amount of insurance.	TC

HANDLING INFORMATION These commodities licensed by US for ultimate destination. Diversion contrary to US law is prohibited.

Refrigerate - Do not freeze

GO-PRI

NO. OF PIECES RCP	GROSS WEIGHT	kg lb	RATE CLASS COMMODITY ITEM NO.	CHARGEABLE WEIGHT	RATE / CHARGE	TOTAL	NATURE AND QUANTITY OF GOODS (INCL. DIMENSIONS OR VOLUME)

PREPAID / WEIGHT CHARGE / COLLECT
A.

VALUATION CHARGE
D.

TAX
I.

TOTAL OTHER CHARGES DUE AGENT

TOTAL OTHER CHARGES DUE CARRIER

G. COD ➡ CURRENCY

TOTAL PREPAID | TOTAL COLLECT

CURRENCY CONVERSION RATES | TOTAL COLLECT IN DESTINATION CURRENCY

P-UP ZONE	PICKUP CHARGES	ORIGIN ADVANCE CHARGES	DESCRIPTION OF ORIGIN ADVANCE
	B.	K.	

DEL ZONE	DELIVERY CHARGES	DEST. ADVANCE CHARGES	DESCRIPTION OF DEST. ADVANCE
	C.	L	

OTHER CHARGES AND DESCRIPTION
F.

ITEMS PREPAID | ITEMS COLLECT

The shipper certifies that the particulars on the face hereof are correct, agrees to the CONDITIONS ON REVERSE HEREOF, accepts that carrier's liability is limited as stated on the reverse hereof and accepts such value unless a higher value for carriage is declared on the face hereof subject to an additional charge and that insofar as any part of the consignment contains restricted articles, such part is properly described by name and is in proper condition for carriage by air according to applicable national governmental regulations, and for international shipments, the current International Air Transport Association's Restricted Articles Regulations.

SIGNATURE OF SHIPPER OR HIS AGENT ABOVE AND INITIAL APPLICABLE BOX BELOW.

[X] THIS SHIPMENT DOES NOT CONTAIN DANGEROUS GOODS.

[ ] THIS SHIPMENT DOES CONTAIN DANGEROUS GOODS.

EXECUTED ON

(Date) (Time) at (Place) SIGNATURE OF ISSUING CARRIER OR ITS AGENT.

Carrier certifies goods described above were received for carriage subject to the Conditions on reverse hereof, the goods then being in apparent good order and condition except as noted hereon

Northeast Cape, St. Lawrence Island Alaska: 2001 Chain of Custody

01-1471 ; 01-14729

Cooler ID/COC#: 01N[illegible]23

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

D1438

Sampler's signature: Melissa Markell

Date	Time	Sample ID	Matrix	Total Containers	SOIL, Cool to 4°C								
					DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Pb Zn Cr SW 6010 B Metals ~~SW6010B~~/7000 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
8-21-01	1630	01NE29SD114	SD	9	X ✓				X ✓	X ✓	X ✓	X ✓	MS / MSD DRO/RRO, PCB, PAH, PbZnCr, only
8-21-01	1635	01NE29SD214	SD	4	X ✓				X ✓	X ✓	X ✓		
8-21-01	1650	01NE29SD115	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-21-01	1705	01NE29SD116	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-21-01	1540	01NE29SD117	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-21-01	1545	01NE29SD118	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-21-01	1550	01NE29SD119	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Eileen Maus	Date 8-22-01	Shipped via: GOPRI AK AL Goldstreak	Shipping number: 027 AK 2754 1135
Company: Montgomery Watson	Time 1730		
Received by: Susan Snyder	Date 8-24-01	Relinquished by:	Date
Company: ARI	Time 9:30	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 3.5°C

Custody seal #s: 17776 / 17777

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: 01NEC25 Delivered By: AK Airlines

Tracking NO.: 027 2754 1135 Date: 8-24-01

ARI Job No.: DN38 Lims NO.: 01-14725-0147

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: Susan Sheffield Date: 8-24-01 Time: 955

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 0.5 °C
7. What kind of packing material was used? ..... Bubblewrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... YES (NO)
15. Were all VOA vials free of air bubbles? ..... YES NA NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: Deborah Johnson Date: 8/24/01 Time 9:55

Explain any discrepancies or negative responses:

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: 01NEC23 Delivered By: AK Airlines

Tracking NO.: 027 27541135 Date: 8-24-01

ARI Job No.: DN38 Lims NO.: 01-14718 - 01-14724

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? 2 front & Back ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: Susan Snyder Date: 8-24-01 Time: 9:30

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 3.5 °C
7. What kind of packing material was used? ..... Bubble Wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... YES (NO)
15. Were all VOA vials free of air bubbles? ..... YES NA NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: Deborah Thomson Date: 8/24/01 Time 9:30

Explain any discrepancies or negative responses:

PLEASE TYPE

027 | Airport of Departure 2754 1135 | Subject to Conditions of Contract on the Back of the Airbill | INSURANCE AVAILABLE | 027 2754 1135

SHIPPERS NAME AND ADDRESS: Montgomery Watson Harza
4100 Spenard Road
Anchorage, AK 99517 Site: Northeast cape

SHIPPERS ACCOUNT NUMBER: 2744-006515-1

NOT NEGOTIABLE
AIR WAYBILL
(AIR CONSIGNMENT NOTE)

Alaska Airlines
SEATTLE-TACOMA INTERNATIONAL AIRPORT
SEATTLE, WASHINGTON

Copies 3, 9 and 1 of this Air Waybill are originals and have the same validity.

It is agreed that the goods described herein are accepted for carriage in apparent good order and condition (except as noted) and SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY.

CONSIGNEE'S NAME AND ADDRESS
ARI
333 Ninth Avenue
North Seattle, WA 98109-5187

CONSIGNEE'S ACCOUNT NUMBER

TO EXPEDITE MOVEMENT, SHIPMENT MAY BE DIVERTED TO MOTOR OR OTHER CARRIER AS PER TARIFF RULE UNLESS SHIPPER GIVES OTHER INSTRUCTIONS HEREON.

ISSUING CARRIER'S AGENT NAME AND CITY

ALSO NOTIFY NAME AND ADDRESS *(OPTIONAL ACCOUNTING INFORMATION)*
Call Upon Arrival 206-389-6167
KEEP COOL _ DO NOT FREEZE

AGENTS IATA CODE | ACCOUNT NO.

AIRPORT OF DEPARTURE (ADDR OF FIRST CARRIER) AND REQUESTED ROUTING

☒ DOOR-TO-DOOR ☐ DOMESTIC
☐ PRIORITY ☐ INTERNATIONAL

ROUTING AND DESTINATION TO	BY FIRST CARRIER	TO	BY	TO	BY	CURRENCY	CHGS CODE	WT/VAL PPD	WT/VAL COLL	OTHER PPD	OTHER COLL	DECLARED VALUE FOR CARRIAGE	DECLARED VALUE FOR CUSTOMS

AIRPORT OF DESTINATION | FOR CARRIER USE ONLY FLIGHT/DATE | FLIGHT/DATE | AMOUNT OF INSURANCE | INSURANCE - If shipper requests insurance in accordance with conditions on reverse hereof, indicate amount to be insured in figures in box marked amount of insurance. | TC

HANDLING INFORMATION These commodities licensed by US for ultimate destination. Diversion contrary to US law is prohibited.
Refrigerate - Do not freeze

GO PRI

NO. OF PIECES RCP	GROSS WEIGHT	kg lb	RATE CLASS COMMODITY ITEM NO.	CHARGEABLE WEIGHT	RATE / CHARGE	TOTAL	NATURE AND QUANTITY OF GOODS (INCL. DIMENSIONS OR VOLUME)

PREPAID / WEIGHT CHARGE / COLLECT
A

VALUATION CHARGE
D

TAX
I

TOTAL OTHER CHARGES DUE AGENT

TOTAL OTHER CHARGES DUE CARRIER

P-UP ZONE	PICKUP CHARGES B.	ORIGIN ADVANCE CHARGES K.	DESCRIPTION OF ORIGIN ADVANCE
DEL ZONE	DELIVERY CHARGES C.	DEST. ADVANCE CHARGES L	DESCRIPTION OF DEST. ADVANCE

OTHER CHARGES AND DESCRIPTION F. | ITEMS PREPAID | ITEMS COLLECT

The shipper certifies that the particulars on the face hereof are correct, agrees to the CONDITIONS ON REVERSE HEREOF, accepts that carrier's liability is limited as stated on the reverse hereof and accepts such value unless a higher value for carriage is declared on the face hereof subject to an additional charge and that insofar as any part of the consignment contains restricted articles, such part is properly described by name and is in proper condition for carriage by air according to applicable national governmental regulations, and for international shipments, the current International Air Transport Association's Restricted Articles Regulations.

G. COD ➡ CURRENCY

TOTAL PREPAID | TOTAL COLLECT

CURRENCY CONVERSION RATES | TOTAL COLLECT IN DESTINATION CURRENCY

SIGNATURE OF SHIPPER OR HIS AGENT ABOVE AND INITIAL APPLICABLE BOX BELOW.

[X] THIS SHIPMENT DOES NOT CONTAIN DANGEROUS GOODS.

[ ] THIS SHIPMENT DOES CONTAIN DANGEROUS GOODS.

EXECUTED ON

(Date) (Time) at (Place) SIGNATURE OF ISSUING CARRIER OR ITS AGENT.

Carrier certifies goods described above were received for carriage subject to the Conditions on reverse hereof, the goods then being in apparent good order and condition except as noted hereon.

Northeast Cape, St. Lawrence Islar ' Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1 14

DNCC

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround Melissa Markell

Sampler's signature: Douglas Grant Bowcock

2001 Date	Time	Sample ID	Matrix	Total Containers	SOIL, Cool to 4°C: DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B/7000 Pb Zn Cr 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
8-19	1000	01NE28SD135	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-19	1010	01NE28SD136	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-19	1015	01NE28SD137	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-19	1025	01NE28SD138	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-19	1035	01NE28SD139	SD	9	X ✓				X ✓	X ✓	X ✓	X ✓	MS/MSD DRO/RRO PAHs/PCB, Metals only
8-19	1100	01NE28SD140	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-19	1040	01NE28SD239	SD	4	X ✓				X ✓	X ✓	X ✓		

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Eileen Mans	Date 8-20-01	Shipped via: GO PRI AK Airlines	Shipping number: 2754 1146
Company: Montgomery Watson	Time 1000		
Received by: Susan Snyder	Date 8/21/01	Relinquished by:	Date
Company: AKI	Time 2210	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 3.5°C

Custody seal #s: 17579, 17579

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

DNOP

CoolerID/COC#: Ø1NEC 18

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround Bmchea

Sampler's signature: Douglas Quist Melissa Markell

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B~~7000~~ Pb Zn Cr 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
8-19-01	1310	01NE28SD141	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-19-01	1315	01NE28SD142	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-19-01	1325	01NE28SD143	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-19-01	1335	01NE28SD144	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-19-01	1345	01NE28SD145	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-19-01	1355	01NE28SD146	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Eileen Maus	Date 8-20-01	Shipped via: GO PRI AK Airlines	Shipping number: 27541 1146
Company: Montgomery Watson	Time 1000		
Received by: Suzanne Snyder	Date 8/21/01	Relinquished by:	Date
Company: AKI	Time 2215	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 1.5 °C

Custody seal #s: 17369, 17526

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

DNCC

Cooler ID/COC#: 01NEC19

Montgomery Watson Harza 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 Attn: Jane Whitsett	Laboratory: Analytical Resources Inc. 333 Ninth Avenue North Seattle, WA 98109-5187 (206) 389-6166 Fax (206) 621-7523 Attn: Sue Snyder **MW Job Number:** **1850574.260120** **NPDL # 01-065** **COELT EDF V1.2** **USACE & Fuel Chromatograms** **30 day turnaround**

Sampler's signature: Douglas Quist BMcLaughlin Melissa Markell

Date 2001	Time	Sample ID	Matrix	Total Containers	SOIL, Cool to 4°C DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B/~~7000~~ Pb, Zn, Cr 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
8-19	1455	01NE28SD147	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-19	1505	01NE28SD148	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-19	1510	01NE28SD149	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-19	1520	01NE28SD150	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-19	1530	01NE28SD151	SD	9	X ✓				X ✓	X ✓	X ✓	X ✓	MS/MSD DRO/RRO, PAH, PCB metals only
X 8-19	1535	01NE28SD252	SD	4	X ✓				X ✓	X ✓	X ✓		* all bottle labels = 01NE28SD251 (1535)
8-19	1545	01NE28SD152	SD	5	X ✓				X	X ✓	X ✓	X ✓	

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Gilen Mares Company: Montgomery Watson	Date 8-20-01 Time 1000	Shipped via: GO-PRI AK Airlines	Shipping number: 27541 1146
Received by: Susan Snyder Company: AKI	Date 8-21-01 Time 2200	Relinquished by: Company:	Date Time	Temperature blank temperature upon arrival: 5.0°C
Received by: Company:	Date Time	Relinquished by: Company:	Date Time	Custody seal #s: 17774, 17775

COOLER RECEIPT FORM

Resources Incorporated

ARI Client: Montgomery Watson Project: Northeast Cape

Delivered by: ak Airlines Tracking No.: 02 72754 1146 Date: 8/21/01

ARI Project No. DN06 LIMS Nos.: _____

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler?	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink, signed, etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted by: Susan Snyder Date: 8/21/01 Time: 9:35 am

Log-in Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	5.0	degrees C
7.	What kind of packing material was used?	Bubble Wrap	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	(Yes)	No
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	(Yes)	No
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	Yes	(No)
15.	Were all VOA vials free of air bubbles?	Yes	NA No
16.	Was sufficient amount of sample sent in each bottle?	(Yes)	No
17.	Notify Project Manager of any discrepancies or concerns	OK	(NA)

Cooler Opened by: logged Date: 8/22/01 Time: 1130

Explain any discrepancies or negative responses:

COOLER RECEIPT FORM

Incorporated

ARI Client: Montgomery Watson Project: Northeast Cape

Delivered by: AK Airlines Tracking No.: CQ72754 1146 Date: 8/21/01

ARI Project No. DNOC LIMS Nos.:

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler?	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink,signed,etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted by: Susan Snyder Date: 8-21-01 Time: 22:15

Log-In Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	1.5	degrees C
7.	What kind of packing material was used?	Bubble Wrap	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	(Yes)	No
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	Yes	(No)
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	Yes	(No)
15.	Were all VOA vials free of air bubbles?	Yes NA	No
16.	Was sufficient amount of sample sent in each bottle?	(Yes)	No
17.	Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler ~~Opened~~ Logged by: CJosi Date: 8/22/01 Time: 1107

Explain any discrepancies or negative responses:

Sample ONE28SD252 (on COC) all bottle labels = ONE28SD251 8/22/01

COOLER RECEIPT FORM

Resources Incorporated

ARI Client: Montgomery Watson Project: Northeast Cape

Delivered by: ak airlines Tracking No.: 272754 1146 Date: 8/21/01

ARI Project No. DNC6 LIMS Nos.: _____

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler?	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink, signed, etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted by: Susan Kegler Date: 8-21-01 Time: 22:10

Log-in Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	3.5	degrees C
7.	What kind of packing material was used?	Bubble Wrap	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	(Yes)	No
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	(Yes)	(No)
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	Yes N	(No)
15.	Were all VOA vials free of air bubbles?	Yes N/A	No
16.	Was sufficient amount of sample sent in each bottle?	(Yes)	No
17.	Notify Project Manager of any discrepancies or concerns	OK	(NA)

Cooler Opened by: (logged by) EJOBLE Date: 8/22/01 Time: 1100

Explain any discrepancies or negative responses:

* OK see COC 19 of 8/22/01

Northeast Cape, St. Lawrence Islan[d] [A]laska. 2001 Chain of Custody

CoolerID [C]#: 01N--06

PN07

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround Melissa Markell Douglas Quast

Sampler's signature: Bonnie McLean

2001 Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B/7000 Pb, Zn, Cr 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
8-18	1100	01NE06TP101	S	3	X							X	MS/MSD DRO/RRO only
8-18	1105	01NE06TP201	S	1	X								
8-18	1200	01NE06TP102	S	2	X							X	
8-18	1025	01NE28SD111	SD	9	X				X	X	X	X	MS/MSD DRO/RRO, PAHs/SIM, PCBs & metals only
8-18	1030	01NE28SD211	SD	4	X				X	X	X		
8-18	1040	01NE28SD112	SD	5	X				X	X	X	X	
8-18	1045	01NE28SD113	SD	5	X				X	X	X	X	
8-18	1050	01NE28SD114	SD	5	X				X	X	X	X	
8-18	1055	01NE28SD115	SD	5	X				X	X	X	X	
8-18	1100	01NE28SD116	SD	5	X				X	X	X	X	
8-18 Dup													

SOIL, Cool to 4°C

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Bonnie Archea	Date 8-20-01	Shipped via: GO PRI AK Airlines	Shipping number: 2754 1146
Company: Montgomery Watson	Time 1000		
Received by: Jerson Snyder	Date 8/21/01	Relinquished by:	Date
Company: ARI	Time 22.07	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 1.0°C

Custody seal #s: 17520, 17521

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC 09

DN07

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

2001

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround Melissa Markell

Sampler's signature: BMchea — Douglas Quist

Date	Time	Sample ID	Matrix	Total Containers	SOIL, Cool to 4°C: DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B/7000 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
8-18	1600	01NE06SD116	SD	5	X ✓	X ✓	X ✓			X ✓	X ✓		ADDED: 20 mL MeOH 10g soil (Btex & GRO)
8-18	1630	01NE06SD117	SD	5	X ✓	X ✓	X ✓			X ✓	X ✓		10g soil – 10 mL.
8-18	1600	01NE00TB101	SS	1		X ✓	X ✓						
8-19	1115	01NE07SS125	SS	5	X ✓			X ✓	X ✓	X ✓	X ✓		10g – 10mL MeOH VOC
8-19	1130	01NE07SS126	SS	5	X ✓			X ✓	X ✓	X ✓	X ✓		10g – 10mL MeOH VOC
8-19	1145	01NE07SS127	SS	5	X ✓			X ✓	X ✓	X ✓	X ✓		10g – 10 mL MeOH VOC
8-19	1530	01NE07SD105	SD	5	X ✓			X ✓	X ✓	X ✓	X ✓		10g – 10 mL MeOH VOC
8-19	1400	01NE07SD104	SD	5	X ✓			X ✓	X ✓	X ✓	X ✓		10g – 10mL MeOH VOC

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Bonnie McHea	Date 8/20/01	Shipped via: GO PRI AK Airlines	Shipping number: 2754 1146
Company: Montgomery Watson	Time 1010		
Received by: Susan Snyder	Date 8/21/01	Relinquished by:	Date
Company: ARI	Time 9:45a	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 1.0 °C

Custody seal #s: 073305, 073295

@INEC06

COOLER RECEIPT FORM

Resources Incorporated

ARI Client: Montgomery Watson Project: Northeast Cape

Delivered by: AK Airlines Tracking No.: 272754 1146 Date: 8/21/01

ARI Project No. DN07 LIMS Nos.: 01-14449 & 14458

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler?	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink, signed, etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted by: Jessica Snyder Date: 8-21-01 Time: 22:07

Log-in Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	1.0	degrees C
7.	What kind of packing material was used?	Bubble Wrap	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	(Yes)	No
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	(Yes)	No
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	(Yes) DL 8/22/01	(No)
15.	Were all VOA vials free of air bubbles?	Yes N/A	No
16.	Was sufficient amount of sample sent in each bottle?	(Yes)	No
17.	Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened by: Deborah Simon Date: 8/21/01 Time: 22:07

Explain any discrepancies or negative responses:

Ø INECØ9

COOLER RECEIPT FORM

Analytical Resources Incorporated

ARI Client: Montgomery Watson Project: Northeast Cape

Delivered by: ak Airlines Tracking No.: Q272754 1146 Date: 8/21/01

ARI Project No. DNO7 LIMS Nos.: 01-014459 to 014466

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler?	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink, signed, etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted by: S Snyder Date: 8/21/01 Time: 9:50

Log-in Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	1.0	degrees C
7.	What kind of packing material was used?	Bubble wrap	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	(Yes)	No
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	Yes	(No)
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	Yes	(No)
15.	Were all VOA vials free of air bubbles?	Yes N/A	No
16.	Was sufficient amount of sample sent in each bottle?	(Yes)	No
17.	Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened by: Deborah Thomas Date: 8/21/01 Time: 21:50

Explain any discrepancies or negative responses:

Samples 01NE07SS125, 01NE07SS126, 01NE07SS127 each had the metals container read 01NE07SD...125, 126, 127. We will use 7SS per the rest of the samples unless notified.

PLEASE TYPE

027 | Airport of Departure 2754 1148 | Subject to Conditions of Contract on the Back of the Airbill | INSURANCE AVAILABLE | 027 2754 1148

S RS NAME AND ADDRESS: tgomery Watson Harza
4100 Spenard Road
Anchorage, AK 99517 Site: Northeast Cape

SHIPPERS ACCOUNT NUMBER: 2744-006515-1

CONSIGNEE'S NAME AND ADDRESS: ARI
333 Ninth Avenue
North Seattle, WA 98109-5187

CONSIGNEE'S ACCOUNT NUMBER:

NOT NEGOTIABLE
AIR WAYBILL
(AIR CONSIGNMENT NOTE)

Alaska Airlines
SEATTLE-TACOMA INTERNATIONAL AIRPORT
SEATTLE, WASHINGTON

Copies 3, 9 and 1 of this Air Waybill are originals and have the same validity.

It is agreed that the goods described herein are accepted for carriage in apparent good order and condition (except as noted) and SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY.

TO EXPEDITE MOVEMENT, SHIPMENT MAY BE DIVERTED TO MOTOR OR OTHER CARRIER AS PER TARIFF RULE UNLESS SHIPPER GIVES OTHER INSTRUCTIONS HEREON.

ISSUING CARRIER'S AGENT NAME AND CITY:

ALSO NOTIFY NAME AND ADDRESS (OPTIONAL ACCOUNTING INFORMATION)
Call Upon Arrival 206-389-6167
KEEP COOL - DO NOT FREEZE

AGENTS IATA CODE | ACCOUNT NO.

AIRPORT OF DEPARTURE (ADDR OF FIRST CARRIER) AND REQUESTED ROUTING

☐ DOOR-TO-DOOR ☐ DOMESTIC
☒ PRIORITY ☐ INTERNATIONAL

ROUTING AND DESTINATION						CURRENCY	CHGS CODE	WT/VAL		OTHER		DECLARED VALUE FOR CARRIAGE	DECLARED VALUE FOR CUSTOMS
TO	BY FIRST CARRIER	TO	BY	TO	BY			PPD	COLL	PPD	COLL		

AIRPORT OF DESTINATION	FOR CARRIER USE ONLY FLIGHT/DATE	FLIGHT/DATE	AMOUNT OF INSURANCE	INSURANCE - If shipper requests insurance in accordance with conditions on reverse hereof, indicate amount to be insured in figures in box marked amount of insurance.	TC

HANDLING INFORMATION These commodities licensed by US for ultimate destination. Diversion contrary to US law is prohibited.

frigerate - Do not freeze

GO-PRI

NO. OF PIECES RCP	GROSS WEIGHT	kg lb	RATE CLASS COMMODITY ITEM NO.	CHARGEABLE WEIGHT	RATE / CHARGE	TOTAL	NATURE AND QUANTITY OF GOODS (INCL. DIMENSIONS OR VOLUME)

PREPAID | WEIGHT CHARGE | COLLECT
A.

VALUATION CHARGE
D.

TAX
I.

TOTAL OTHER CHARGES DUE AGENT

TOTAL OTHER CHARGES DUE CARRIER

P-UP ZONE | PICKUP CHARGES B. | ORIGIN ADVANCE CHARGES K. | DESCRIPTION OF ORIGIN ADVANCE

DEL ZONE | DELIVERY CHARGES C. | DEST. ADVANCE CHARGES L. | DESCRIPTION OF DEST. ADVANCE

OTHER CHARGES AND DESCRIPTION F. | ITEMS PREPAID | ITEMS COLLECT

The shipper certifies that the particulars on the face hereof are correct, agrees to the CONDITIONS ON REVERSE HEREOF, accepts that carrier's liability is limited as stated on the reverse hereof and accepts such value unless a higher value for carriage is declared on the face hereof subject to an additional charge and that insofar as any part of the consignment contains restricted articles, such part is properly described by name and is in proper condition for carriage by air according to applicable national governmental regulations, and for international shipments, the current International Air Transport Association's Restricted Articles Regulations.

COD ➡ CURRENCY

TOTAL PREPAID | TOTAL COLLECT

CURRENCY CONVERSION RATES | TOTAL COLLECT IN DESTINATION CURRENCY

SIGNATURE OF SHIPPER OR HIS AGENT ABOVE AND INITIAL APPLICABLE BOX BELOW

[X] THIS SHIPMENT DOES NOT CONTAIN DANGEROUS GOODS.

[ ] THIS SHIPMENT DOES CONTAIN DANGEROUS GOODS.

EXECUTED ON

(Date) (Time) at (Place) SIGNATURE OF ISSUING CARRIER OR ITS AGENT.

Carrier certifies goods described above were received for carriage subject to the Conditions on reverse hereof, the goods then being in apparent good order and condition except as noted hereon

DN36

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

Ø1NEC29

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Doug Quist Melissa Markell

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/~~BTEX~~ AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8-20	1010	01NE28SW116	SW	4	X ✓					X ✓					
8-21	1335	01NE29SW116	SW	3		X ✓	X ✓								
8-20	1900	01NE00TB103	SW	3		X ✓	X ✓								01NE00TB103
8-20	1940	01NE29SW117	SW	6		X ✓	X ✓								MS/MSD
8-20	1945	01NE29SW217	SW	3		X ✓	X ✓								
8-20	1530	01NE29SW115	SW	3		X ✓	X ✓								
8-20	1625	01NE29SW114	SW	3		X ✓	X ✓								

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Eileen Mauss	Date 8-22-01	Shipped via: Alaska Airline GO PRI	Shipping number: 027 2754 1135
Company: Montgomery Watson	Time 1730		
Received by:	Date 8-24-01	Relinquished by:	Date
Company:	Time 1000	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 2.0°C

Custody seal #s: 17861, 17877

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: QINEC29 Delivered By: ak airlines

Tracking NO.: 027 2754 1135 Date: 8-24-01

ARI Job No.: DN36 Lims NO.: 01-14708 to 01-14713

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: Susan Snyder Date: 8-24-01 Time: 1000

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 2.0 °C
7. What kind of packing material was used? ..... Bubble Wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... (YES) NO
15. Were all VOA vials free of air bubbles? ..... 8/24/01 (YES) (NO)
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: Susan Snyder Date: 8-24-01 Time 1000

Explain any discrepancies or negative responses:

① Trip blank contained 1 pea size air bubble in 2 VOAs. Will tag and instruct to use VOA without air bubbles.

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

DN36

Ø1NEC30

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
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Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Gary Grant Melissa Marshall

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	TAL Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly.w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
					WATER, COOL to 4 °C										
08-21-01	1335	Ø1NE29SW116	W	7	X				X	X	X				

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Eileen Mans	Date 8-22-01	Shipped via: 027 GO PRI AKAL ~~Fed Ex~~	Shipping number: 027 AWC 27541135
Company: Montgomery Watson	Time 1730		
Received by: Susan Snyder	Date 8-24-01	Relinquished by:	Date
Company: ARI	Time 945	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 1.5°C °C

Custody seal #s: 17771, 17531

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: ØINEC30 Delivered By: AK Airlines

Tracking NO.: 027 2754 1135 Date: 8-24-01

ARI Job No.: DN36 Lims NO.: 01-14704

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler?	(YES)	NO
2. Were custody papers included with the cooler	(YES)	NO
3. Were custody papers properly filled out (ink, signed etc.)?	(YES)	NO
4. Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted BY: Susan Siegler Date: 8-24-01 Time: 9:45

Log-IN Phase:

5. Was a temperature blank include in the cooler?	(YES)	NO
6. Record Cooler Temperature	1.5 °C	
7. What kind of packing material was used?	Bubble Wrap	
8. Was sufficient ice used (if appropriate)?	(YES)	NO
9. Were all bottles sealed in separate plastic bags?	(YES)	NO
10. Did all bottles arrive in good condition (unbroken)?	(YES)	NO
11. Were all bottle labels complete and legible?	(YES)	NO
12. Did all bottle labels and tags agree with custody papers?	(YES)	NO
13. Were all bottles used correct for the requested analyses?	(YES)	NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached)	(YES)	NO
15. Were all VOA vials free of air bubbles? N/A	(YES)	NO
16. Was sufficient amount of sample sent in each bottle?	(YES)	NO
17. Notify Project Manager of any discrepancies or concerns	OK	(NA)

Cooler Opened By: Susan Siegler Date: 8/24/01 Time 945

Explain any discrepancies or negative responses:

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

Cooler ID/COC#: Ø1NEC 31

DN36

Water
~~Air~~ ~~SOIL~~, Cool to 4°C

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Melissa Markell

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 1x 4oz. amber ~~glass jar~~ plastic 2 x 1/2 HCl	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 2 x 1/2 plastic ~~1 x 4oz. amber glass jar~~	Metals SW6010B/7000 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
8-20-01	1940	Ø1NE29SW117	SW	8	X✓					X✓			MS/MSD

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Eileen Mans	Date 8-22-01	Shipped via: ~~GOBrisk~~ AK AL	Shipping number:	
Company: Montgomery Watson	Time 1730	GO PRI	027 2754 1135	
Received by: Jessica Slaughter	Date 8-24-01	Relinquished by:	Date	Temperature blank temperature upon arrival: °C
Company: AKI	Time 9:30	Company:	Time	2.5°C
Received by:	Date	Relinquished by:	Date	Custody seal #s: 17874
Company:	Time	Company:	Time	~~17811~~ 17875 Cust, 17810 Cust

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: QINEC31 Delivered By: Ak Airlines

Tracking NO.: 027 27541135 Date: 8-24-01

ARI Job No.: DN36 Lims NO.: 01-14702

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached
   To the outside of the cooler? 2 front & back ..... YES NO
2. Were custody papers included with the cooler ..... YES NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... YES NO
4. Complete custody forms and attach all shipping documents ..... OK NA

Cooler Accepted BY: Susan Linder Date: 8-24-01 Time: 9:30

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... YES NO
6. Record Cooler Temperature ..... 2.5 °C
7. What kind of packing material was used? ..... Bubblewrap
8. Was sufficient ice used (if appropriate)? ..... YES NO
9. Were all bottles sealed in separate plastic bags? ..... YES NO
10. Did all bottles arrive in good condition (unbroken)? ..... YES NO
11. Were all bottle labels complete and legible? ..... YES NO
12. Did all bottle labels and tags agree with custody papers? ..... YES NO
13. Were all bottles used correct for the requested analyses? ..... YES NO
14. Do any of the analyses (bottles) require preservative?
    (If so, Preservation checklist must be attached) ..... YES NO
15. Were all VOA vials free of air bubbles? ..... N/A YES NO
16. Was sufficient amount of sample sent in each bottle? ..... YES NO
17. Notify Project Manager of any discrepancies or concerns ..... OK NA

Cooler Opened By: Susan Linder Date: 8-24-01 Time 9:30

Explain any discrepancies or negative responses:

DN36

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

Ø1NEC32

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Laura Grant Melissa Markell

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO~~/BTEX~~ AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly w/HN03 T4L Metals	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
WATER, COOL to 4 °C															
8-20-01	1940	01NE29SW117	SW	6					X✓		X✓				MS/MSD

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Eileen Maus	Date 8-22-01	Shipped via: AK AL GCPRI	Shipping number: 027 2754 1135
Company: Montgomery Watson	Time 1730		
Received by: Susan Snyder	Date 8-24-01	Relinquished by:	Date
Company: ARI	Time 9:32	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 3.5°C °C

Custody seal #s: 17856 17769

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: QINEC32 Delivered By: Ak Airlines

Tracking NO.: 027 27541135 Date: 8-24-01

ARI Job No.: DN36 Lims NO.: 01-14702 QC

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler?	(YES)	NO
2. Were custody papers included with the cooler	(YES)	NO
3. Were custody papers properly filled out (ink, signed etc.)?	(YES)	NO
4. Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted BY: Susan Smythe Date: 8-24-01 Time: 9:32

Log-IN Phase:

5. Was a temperature blank include in the cooler?	(YES)	NO
6. Record Cooler Temperature	3.5 °C	
7. What kind of packing material was used?	Bubblewrap	
8. Was sufficient ice used (if appropriate)?	(YES)	NO
9. Were all bottles sealed in separate plastic bags?	(YES)	NO
10. Did all bottles arrive in good condition (unbroken)?	(YES)	NO
11. Were all bottle labels complete and legible?	(YES)	NO
12. Did all bottle labels and tags agree with custody papers?	(YES) *	NO
13. Were all bottles used correct for the requested analyses?	(YES)	NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached)	(YES)	NO
15. Were all VOA vials free of air bubbles? N/A	(YES)	NO
16. Was sufficient amount of sample sent in each bottle?	(YES)	NO
17. Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened By: Susan Smythe Date: 8-24-01 Time 9:32

Explain any discrepancies or negative responses:

* 2 A/G for PNA = QINE295W117 sg 8/24/01

DN36

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

ØINEC33

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Kevin Grant Melissa Markell

WATER, COOL to 4 °C

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/7421/7471 1x1 L Poly.w/HNO3	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8-20-01	1945	OINE29SW217	SW	7	X✓				X✓	X✓	X✓ 14L metals				

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Edan Hanna	Date 8-28-01	Shipped via: AK AL GO PRI	Shipping number: ~~17767~~ 027 2754 1135
Company: Montgomery Watson	Time 1730		
Received by: Pleasey Breyde	Date 8-29-01	Relinquished by:	Date
Company: AK1	Time 935	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 2.0°C °C

Custody seal #s: 17767, 17876

D1-36

Northeast Cape, St. Lawrence Isl[illegible] Alaska. 2001 Chain of Custody

Ø1NEC 35

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Tony Grant Melissa Markell

WATER, COOL to 4 °C

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/~~7000~~ 7000B 7421/7471 1x1 L Poly.w/HNO3	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8-21-01	1530	Ø1NE29SW115	SW	7	X ✓				X ✓	X ✓	X ✓				

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Eileen Mans	Date 8-22-01	Shipped via:	Shipping number: 027 2754 1135
Company: Montgomery Watson	Time 1730		
Received by: Susan Snyder	Date 8-24-01	Relinquished by:	Date
Company: ARI	Time 950	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 2.5 °C

Custody seal #s: 17525 17524

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: 01NEC35 Delivered By: AK Airlines

Tracking NO.: 027 27541135 Date: 8-24-01

ARI Job No.: DN36 Lims NO.: 01-14705

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler?	(YES)	NO
2. Were custody papers included with the cooler	(YES)	NO
3. Were custody papers properly filled out (ink, signed etc.)?	(YES)	NO
4. Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted BY: Susan Snyder Date: 8-24-01 Time: 950

Log-IN Phase:

5. Was a temperature blank include in the cooler?	(YES)	NO
6. Record Cooler Temperature	2.5 °C	
7. What kind of packing material was used?	Bubble wrap	
8. Was sufficient ice used (if appropriate)?	(YES)	NO
9. Were all bottles sealed in separate plastic bags?	(YES)	NO
10. Did all bottles arrive in good condition (unbroken)?	(YES)	NO
11. Were all bottle labels complete and legible?	(YES)	NO
12. Did all bottle labels and tags agree with custody papers?	(YES)	NO
13. Were all bottles used correct for the requested analyses?	(YES)	NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached)	(YES)	NO
15. Were all VOA vials free of air bubbles?	N/A (YES)	NO
16. Was sufficient amount of sample sent in each bottle?	(YES)	NO
17. Notify Project Manager of any discrepancies or concerns	OK	(NA)

Cooler Opened By: Susan Snyder Date: 8-24-01 Time 950

Explain any discrepancies or negative responses:

DN310

Northeast Cape, St. Lawrence Island, Alaska. 2001 Chain of Custody

01NEC37

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Tony Gault Melissa Markell

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/7421/7471 1x1 L Poly w/HNO3	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8/21/01	1625	01NE29SW114	SW	7	X ✓				X ✓	X ✓	✓ per James MWH 8/24/01 @11:13am				metals bottle received for this Sample SS 8/24/01

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Ellen Maus	Date 8-22-01	Shipped via: AK AL 027 2754 1135		Shipping number: 027 2754 1135
Company: Montgomery Watson	Time 1730			
Received by: Susan Snyder	Date 8-24-01	Relinquished by:	Date	Temperature blank temperature upon arrival: 2.5 °C
Company: ARI	Time 955	Company:	Time	
Received by:	Date	Relinquished by:	Date	Custody seal #s: 17792 17857
Company:	Time	Company:	Time	

Airport of Departure

027 [illegible] 27541135 DOM R 027 27541135

SHIPPER'S NAME AND STREET ADDRESS

MONTGOMERY WATSON
4100 SPENARD RD
ANCHORAGE AK 99517
/US

SHIPPER'S ACCOUNT NUMBER
027440055151

NOT NEGOTIABLE
AIR WAYBILL
(AIR CONSIGNMENT NOTE)

AirCargo
Alaska Airlines
1-800-225-2752
P.O. BOX 68900
SEATTLE, WASHINGTON 98168 U.S.A.

CONSIGNEE'S NAME AND STREET ADDRESS

ANALYTICAL RESOURCES INC
333 9TH AVE
NO. SEATTLE 98109
/US

CONSIGNEE'S ACCOUNT NUMBER

If the carriage involves an ultimate destination or stop in a country other than the country of departure, the Warsaw Convention may be applicable and the Convention governs and in most cases limits the liability of carriers in respect of loss of or damage to cargo. The agreed stopping places (which may be altered by Carrier in case of necessity) are those places, except the place of departure and the place of destination, set forth on the face hereof or shown in Carriers' timetables as scheduled stopping places for the route. Address of first carrier is the airport of departure. SEE CONDITIONS ON REVERSE HEREOF.

Received in good condition at [illegible] (LOCATION) on 8/24 0805 Date/Time

Please print your name Bruce C. Bernards

Signature Bruce C. Bernards

ISSUING CARRIER'S AGENT NAME AND CITY

ACCOUNTING INFORMATION (OPTIONAL - ALSO NOTIFY NAME AND ADDRESS)

AGENTS IATA CODE

ACCOUNT NO.

AIRPORT OF DEPARTURE (ADDR OF FIRST CARRIER) AND REQUESTED ROUTING
SEA

ROUTING AND DESTINATION

TO	BY FIRST CARRIER	TO	BY	TO	BY
ANC	AS			SEA	AS

CURRENCY	CHGE CODE	WT / VAL PPD	WT / VAL COLL	OTHER PPD	OTHER COLL	DECLARED VALUE FOR CARRIAGE	DECLARED VALUE FOR CUSTOMS
	PX	X				NVD	NCV

AIRPORT OF DESTINATION
SEATTLE

FLIGHT / DATE (for Carrier use only)

FLIGHT / DATE

AMOUNT OF INSURANCE
NIL

LOCN-AWBS/ 14P

HANDLING INFORMATION These commodities licensed by U.S. for ultimate destination. Diversion contrary to U.S. law is prohibited.
WTY-REFRIGERATE DO NOT FREEZE

NO. of PIECES RCP	GROSS WEIGHT	kg lb	RATE CLASS / COMMODITY ITEM NO.	CHARGEABLE WEIGHT	RATE / CHARGE	TOTAL	NATURE AND QUANTITY OF GOODS (INCL. DIMENSIONS OR VOLUME)
14	567	L	A PRJ	567	.05.01	700.35	COOLERS
14	567	L				700.35	

PREPAID	WEIGHT CHARGE	COLLECT
700.35		

A.

VALUATION CHARGE

D.

TAX
17.86
I.

TOTAL OTHER CHARGES DUE AGENT

TOTAL OTHER CHARGES DUE CARRIER

G. C.O.D. CURRENCY ONE

TOTAL PREPAID
715.21

TOTAL COLLECT

CURRENCY CONVERSION RATES

TOTAL COLLECT IN DESTINATION CURRENCY

FOR CARRIERS USE ONLY AT DESTINATION (ALL COLLECT CHARGES IN DESTINATION CURRENCY)

CHARGES AT DESTINATION

P-UP ZONE	PICKUP CHARGES	ORIGIN ADVANCE CHARGES	DESCRIPTION OF ORIGIN ADVANCE	ITEMS PREPAID
AA	B.	K.		

DEL. ZONE	DELIVERY CHARGES	DEST. ADVANCE CHARGES	DESCRIPTION OF DEST. ADVANCE	ITEMS COLLECT
AA	C.	L.		

OTHER CHARGES AND DESCRIPTION
F.

TOTAL COLLECT CHARGES

TIME ACCPT 1140
DATE ACCPT 25AUG01

OTHER CHARGES AND CHARGE CODES

AC - ANIMAL CONTAINER	CX - DESTINATION COLLECT CREDIT OR THIRD PARTY	PU - PICK UP
AS - ASSEMBLY SERVICE FEE	DA - DESTINATION ADVANCE	PX - PREPAID CREDIT
AT - ATTENDANT	DB - DISBURSEMENT FEE	RA - DANGEROUS GOODS SURCHARGE
AW - AIR WAYBILL FEE	DF - DISTRIBUTION SERVICE FEE	RF - REMIT FOLLOWING COLLECTION FEE
BL - BLACKLIST CERTIFICATE	DL - DELIVERY	SD - SURFACE CHARGE - DESTINATION
BR - BANK RELEASE	FC - COLLECT CHARGES FEE	SI - STOP IN TRANSIT
CA - PART PREPAID CASH, PART COLLECT CREDIT	GT - GOVERNMENT TAX	SO - STORAGE - ORIGIN
CB - PART PREPAID CREDIT, PART COLLECT CREDIT	HR - HUMAN REMAINS	SP - SEPARATE EARLY RELEASE
CC - ALL CHARGES COLLECT	IN - INSURANCE PREMIUM	SR - STORAGE - DESTIN/
CD - CLEARANCE AND HANDLING DESTINATION	LA - LIVE ANIMALS	SS - SIGNATURE SERVIC
CE - CONTAINER PURCHASE	MD - MISCELLANEOUS - DUE LAST CARRIER	ST - STATE SALES TAX
CF - C.O.D. FEE	PC - PART PREPAID CASH, PART COLLECT CASH	SU - SURFACE CHARGES
CG - ALL CHARGES COLLECT G.B.L.	PD - PART PREPAID CREDIT, PART COLLECT CASH	TR - TRANSIT
CH - CLEARANCE AND HANDLING ORIGIN	PG - PREPAID G.B.L. AND/OR G.T.R.	TX - TAXES
CP - DESTINATION COLLECT CASH	PK - PACKAGING	UH - ULD HANDLING
CT - CASKET AIRTRAY PURCHASE	PP - PREPAID CASH	VS - EXTRAORDINARY VALUE

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Dr168 2.5

Northeast Cape, St. Lawrence Isl Alaska. 2001 Chain of Custody

01-15015 ; 01-15034/01-15077

Cooler COC#: Ø1NEC 47

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder

MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: William A. Lull Jane Whitsett Johanna L. Dreher Melissa Wheeler

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	TAL Metals SW6010B/7000 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
08-24-01	1045	01NE21SS 169	SS	9	X ✓	X ✓	X ✓	9 ✓ LD		X ✓	X ✓		MS/MSD BTEXSIM GRO TAL Metals only
08-24-01	1050	01NE21SS 269	SS	6	X ✓	X ✓	X ✓	6 ✓ LD		X ✓	X ✓		
08-24-01	1900	01NE00TB 111	SS	2		X ✓	X ✓	X ✓					
08-24-01	1610	01NE09SD 108	SD	1				X ✓					
08-24-01	1705	01NE09SD 109	SD	1				X ✓					
08-24-01	1540	01NE09SD 107	SD	1				X ✓					
08-24-01	0920	01NE09SD 114	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
08-24-01	0830	01NE09SD 113	SD	3			X ✓	X ✓					MS/MSD VOC only
08-24-01	0835	01NE09SD 213	SD	1				X ✓					
08-24-01	0920	01NE09SD 114	SD	2				X ✓					MS/MSD VOC only
08-24-01	0950	01NE09SS 171	SS	2		X	X						
		~~01~~ MD											

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Johanna L. Dreher Johanna L. Dreher	Date 08-26-01	Shipped via: Goldstreak	Shipping number: 4218 3890
Company: Montgomery Watson	Time 1600		
Received by:	Date 8-28-01	Relinquished by:	Date
Company: ARI	Time 11:00	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 2.5° °C

Custody seal #s: 3, 4

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: 47 of NEW 47 Delivered By: Fed X

Tracking NO.: 027421833890 Date: 8/28/01

ARI Job No.: DN68 Lims NO.: 01-15015 - 01-15077

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler?	(YES)	NO
2. Were custody papers included with the cooler	(YES)	NO
3. Were custody papers properly filled out (ink, signed etc.)?	(YES)	NO
4. Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted BY: [signature] Date: 8/28/01 Time: 11:00

Log-IN Phase:

5. Was a temperature blank include in the cooler?	(YES)	NO
6. Record Cooler Temperature	2.5 °C	
7. What kind of packing material was used?	Bubble Wrap	
8. Was sufficient ice used (if appropriate)?	(YES)	NO
9. Were all bottles sealed in separate plastic bags?	(YES)	NO
10. Did all bottles arrive in good condition (unbroken)?	(YES)	NO
11. Were all bottle labels complete and legible?	(YES)	NO
12. Did all bottle labels and tags agree with custody papers?	(YES)	NO
13. Were all bottles used correct for the requested analyses?	(YES)	NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached)	YES	(NO)
15. Were all VOA vials free of air bubbles?	(YES)	NO
16. Was sufficient amount of sample sent in each bottle?	(YES)	NO
17. Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened By: [signature] Date: 8/28/01 Time 11:00

Explain any discrepancies or negative responses:

1.0

Northeast Cape, St. Lawrence Isla Alaska. 2001 Chain of Custody

Cooler I. OC#: ✓
Ø1NEC54

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround
DN68

Sampler's signature: Bmcleod William A. Small Darcy Quist Melissa Martell

Date	Time	Sample ID	Matrix	Total Containers	SOIL, Cool to 4°C: DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B/7000 1 x 4oz. amber glass jar	Pesticides SW8081 ~~TOC lab method~~ 1 x 4oz. amber glass jar	COMMENTS
8-23-01	1043	01NE34SS104	SS	1						X ✓			
8-24-01	1900	01NE31SS101	SS	3	X ✓					X ✓		X ✓	
8-24-01	1905	01NE31SS102	SS	5	X ✓					X ✓		X ✓	MS/MSD Pesticides, PCBaly
8-24-01	1915	01NE31SS202	SS	2						X ✓		X ✓	
8-24-01	1920	01NE31SS103	SS	3	X ✓					X ✓		X ✓	
8-24-01	1925	01NE31SS104	SS	3	X ✓					X ✓		X ✓	
8-24-01	2000	01NE32SS101	SS	1	X ✓								
8-24-01	2005	01NE32SS102	SS	1	X ✓								
8-24-01	2010	01NE32SS103	SS	3	X ✓					X ✓		X ✓	
8-24-01	2015	01NE32SS104	SS	3	X ✓					X ✓		X ✓	

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Johanna L. Dischner Johanna L. Dischner Company: Montgomery Watson	Date 08-26-01 Time 1600	Shipped via: Goldstreak	Shipping number: 4218 3842
Received by: Richard A. Brown Company: ARI	Date 8/28/01 Time 11:00	Relinquished by: Company:	Date Time	Temperature blank temperature upon arrival: 1.0° °C
Received by: Company:	Date Time	Relinquished by: Company:	Date Time	Custody seal #s: 17, 18

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: North East Cape

COC NO.: 54 of INEC54 Delivered By: Fed-X

Tracking NO.: 4218384 2 Date: 8/28/01

ARI Job No.: DN168 Lims NO.: 01-15015 - 01-15077

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler?	(YES)	NO
2. Were custody papers included with the cooler	(YES)	NO
3. Were custody papers properly filled out (ink, signed etc.)?	(YES)	NO
4. Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted BY: [signature] Date: 8/28/01 Time: 1108

Log-IN Phase:

5. Was a temperature blank include in the cooler?	(YES)	NO
6. Record Cooler Temperature	1.0 °C	
7. What kind of packing material was used?	Bubble Wrap	
8. Was sufficient ice used (if appropriate)?	(YES)	NO
9. Were all bottles sealed in separate plastic bags?	(YES)	NO
10. Did all bottles arrive in good condition (unbroken)?	(YES)	NO
11. Were all bottle labels complete and legible?	(YES)	NO
12. Did all bottle labels and tags agree with custody papers?	(YES)	NO
13. Were all bottles used correct for the requested analyses?	(YES)	NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached)	YES	(NO)
15. Were all VOA vials free of air bubbles?	(YES)	NO
16. Was sufficient amount of sample sent in each bottle?	(YES)	NO
17. Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened By: [signature] Date: 8/28/01 Time 1108

Explain any discrepancies or negative responses:

Northeast Cape, St. Lawrence Isla Alaska. 2001 Chain of Custody

Cooler ID#: 01NEC58

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Bruchea Melissa Marshall

Date	Time	Sample ID	Matrix	Total Containers	SOIL, Cool to 4°C: DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 3250B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B/7000 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
08-24-01	1100	01NE21SB169	SB	3	X					X	X		
08-24-01	1130	01NE21SB170	SB	3	X					X	X		
08-24-01	1125	01NE21SS170	SS	3	X					X	X		
08-24-01	1020	01NE21SB171	SB	3	X					X	X		
08-24-01	0950	01NE21SS171	SS	3	X					X	X		
08-24-01	1345	01NE21SS172	SS	3	X					X	X		
08-24-01	1340	01NE21SS173	SS	3	X					X	X		
08-24-01	1130	01NE14SS101	SS	1						X			
08-24-01	1135	01NE14SS102	SS	1						X			
08-24-01	1140	01NE14SS103	SS	2						X			MS/MSD PCB Only
08-24-01	1145	01NE14SS203	SS	1						X			
08-24-01	1505	01NE21SD113	SD	3	X					X	X		
08-24-01	1425	01NE21SD114	SD	3	X					X	X		

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Johanna L. Dreher	Date 08-26-01	Shipped via: Gold Streak		Shipping number: 4218 3912	
Company: Montgomery Watson	Time 1600				
Received by: EJoshi	Date 8/28/01	Relinquished by:	Date	Temperature blank temperature upon arrival: 3.5 °C	
Company: ARI	Time 1125	Company:	Time		
Received by:	Date	Relinquished by:	Date	Custody seal #s: 25, 26	
Company:	Time	Company:	Time		

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: MONTGOMERY WATSON Project Name: NE CAPE

COC NO.: ØINE ES2 Delivered By: AK AIRLINES

Tracking NO.: Ø274218 3912 Date: 8-27-01

ARI Job No.: DN69 Lims NO.: 01-15058 to 01-15076

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: SJ Date: 8/28/01 Time: 1125

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 3.5 °C
7. What kind of packing material was used? ..... Bubble wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... YES (NO)
15. Were all VOA vials free of air bubbles? ..... YES NA NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: SJ Date: 8/28/01 Time 1200

Explain any discrepancies or negative responses:

Northeast Cape, St. Lawrence Isl Alaska. 2001 Chain of Custody

DN69

Cooler COC#: ✓
01NEC 57

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder

MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Johanna L. Brecher, William A. Smith, Doug Quist, Melissa Wharton

Date	Time	Sample ID	Matrix	Total Containers	SOIL, Cool to 4°C: DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B/7000 1 x 4oz. amber glass jar	Pesticides SW 8081 ~~TOC lab method~~ 1 x 4oz. amber glass jar	COMMENTS
8-24-01	2025	01NE 31SS 121	SS	8	X ✓	X ✓	X ✓			X ✓		X ✓	MS/MSD GRO BTEX SIM DRO/RRO only
8-24-01	2030	01NE 31SS 221	SS	3	X ✓	X ✓	X ✓						
8-24-01	2100	01NE 31SS 122	SS	5	X ✓	X ✓	X ✓			X ✓		X ✓	
8-24-01	2230	01NE 31SS 123	SS	5	X ✓	X ✓	X ✓			X ✓		X ✓	
8-24-01	2240	01NE 31SS 124	SS	5	X ✓	X ✓	X ✓			X ✓		X ✓	
8-24-01	1900	01NE 00TB 114	SS	1		X ✓	X ✓						

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Johanna L. Brecher Company: Montgomery Watson	Date 08-28-01 Time 1600	Shipped via: Goldstreak	Shipping number: 4218 3923
Received by: G Joshi Company: ARI	Date 5/28/01 Time 1125	Relinquished by: Company:	Date Time	Temperature blank temperature upon arrival: 2.5 °C
Received by: Company:	Date Time	Relinquished by: Company:	Date Time	Custody seal #s: 27, 28

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: NE Cap

COC NO.: 01NEC59 Delivered By: AK Airlines

Tracking NO.: 027421839 23 Date: 8-27-01

ARI Job No.: DN69 Lims NO.: 01-15058 to 01-15076

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: EJ Date: 8/28/01 Time: 1125

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 2.5 °C
7. What kind of packing material was used? ..... Bubblewrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... YES (NO)
15. Were all VOA vials free of air bubbles? ..... YES NA NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: EJ Date: 8/28/01 Time 1200

Explain any discrepancies or negative responses:

-0.5

DNS

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø: 43

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: [signature] for Doug Quist & Heather Markell

Date	Time	Sample ID	Matrix	Total Containers	SOIL, Cool to 4°C: DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B/7000 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
8-23-01	0830	ØINE33SS101	SS	2	X✓					X✓			
8-23-01	0835	ØINE33SS102	SS	2	X✓					X✓			
8-23-01	0840	ØINE33SS103	SS	2	X✓					X✓			
8-23-01	1030	ØINE34SS101	SS	3	X✓				X✓	X✓			
8-23-01	1035	ØINE34SS102	SS	3	X✓				X✓	X✓			
8-23-01	1040	ØINE34SS103	SS	3	X✓				X✓	X✓			
8-23-01	1045	ØINE34SS105	SS	1	X✓								
8-23-01	1050	ØINE34SS106	SS	1	X✓					~~FLD~~			
8-23-01	1100	ØINE34SS107	SS	3	X✓					X✓		X✓	
8-23-01	1105	ØINE34SS108	SS	3	X✓					X✓		X✓	
8-23-01	1110	ØINE34SS109	SS	3	X✓					X✓		X✓	
8-23-01	1115	ØINE34SS110	SS	3	X✓					X✓		X✓	
8-23-01	1130	ØINE34SS111	SS	2	X✓				X✓				
8-23-													

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Johanna Dreher	Date 8-24-01	Shipped via: ~~8-24-01 JLD~~ AK AL Cold Streak	Shipping number: 027 2754 1050
Company: Montgomery Watson	Time 1000		
Received by: [signature]	Date 8/25/01	Relinquished by:	Date
Company: ARI	Time 1410	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: -0.5 °C

Custody seal #s: 17768, 7788

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: North East Cape

COC NO.: 01NEC43 Delivered By: Alaska Airlines

Tracking NO.: 027754 1080 Date: 8/25/01

ARI Job No.: DN55 Lims NO.: 01-14859 to 01-14871

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler?	(YES)	NO
2. Were custody papers included with the cooler	(YES)	NO
3. Were custody papers properly filled out (ink, signed etc.)?	(YES)	NO
4. Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted BY: ERIC BRANSON Date: 8/25/01 Time: 1400

Log-IN Phase:

5. Was a temperature blank include in the cooler?	(YES)	NO
6. Record Cooler Temperature	-0.5	°C
7. What kind of packing material was used?	Bubble wrap	
8. Was sufficient ice used (if appropriate)?	(YES)	NO
9. Were all bottles sealed in separate plastic bags?	(YES)	NO
10. Did all bottles arrive in good condition (unbroken)?	(YES)	NO
11. Were all bottle labels complete and legible?	(YES)	NO
12. Did all bottle labels and tags agree with custody papers?	(YES)	NO
13. Were all bottles used correct for the requested analyses?	(YES)	NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached)	YES	(NO)
15. Were all VOA vials free of air bubbles?	YES NA	NO
16. Was sufficient amount of sample sent in each bottle?	(YES)	NO
17. Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler ~~Opened~~ logged By: EJ Date: 8/27/01 Time 1030

Explain any discrepancies or negative responses:

DNSJ -0.5

Northeast Cape, St. Lawrence Is Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1N 40

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Jake Mest for Dan Elliot & Melissa Mackell

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly.w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
WATER, COOL to 4 °C															
8-23-01	1135	01NE16GW101	GW	4				X ✓							MS/MSD
8-23-01	1140	01NE16GW201	GW	2				X ✓							
8-23-01	1005	01NE16GW102	GW	2				X ✓							

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Johanna Dreher	Date 8-24-01	Shipped via: AK AL GO PRI	Shipping number: 027 2754 1080
Company: Montgomery Watson	Time 1000		
Received by:	Date 8/25/01	Relinquished by:	Date
Company: API	Time 1410	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: -0.5 °C

Custody seal #s: 17517, 17516

0.5

DNS3

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC 42

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Johanna Dreher M Mayfield Brendan Freeman

WATER, COOL to 4 °C

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/~~BTEX~~ AK101/~~SW8260B~~ 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly.w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8-23-01	1045	01NE16GW103	GW	2					X ✓						
8-23-01	1455	01NE09SW207	SW	6		X ✓	X ✓								GRO & VOC only
8-23-01	1650	01NE09SW109	SW	5		X ✓	X ✓								GRO & VOC only
8-23-01	1555	01NE09SW108	SW	6		X ✓	X ✓								GRO & VOC only
8-23-01	1450	01NE09SW107	SW	12		~~X~~ ✓	✓ X ~~no pres~~								GRO & VOC only ~~no pres~~
		~~01NE09S-Eqm~~													
8-23-01	1900	01NE00TB108	SW	6		X ✓	X ✓								

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Johanna Dreher	Date 8-24-01	Shipped via: AK AL Gold Streak	Shipping number: 027 2754 1080
Company: Montgomery Watson	Time 1000		
Received by:	Date 8/25/01	Relinquished by:	Date
Company: AK	Time 1420	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 0.5 °C

Custody seal #s: 17789, 17518

DN53 ...0

Northeast Cape, St. Lawrence Isl Alaska. 2001 Chain of Custody

Cooler ID/COC#: Ø1N. 39

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Doug Quist & Andrea Markell

WATER, COOL to 4 °C

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly.w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8/23/01	1450	01NEOASW107	SW	8	X√				X√	X√					MS/MSD DRO/RRO & PCB

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Johanna Dreher	Date 8-24-01	Shipped via: AKAL GO PRI	Shipping number: 027 2754 1080
Company: Montgomery Watson	Time 1000		
Received by:	Date 8/25/01	Relinquished by: Date	Temperature blank temperature upon arrival: °C
Company: ARI	Time 1420	Company: Time	2.0
Received by: Date		Relinquished by: Date	Custody seal #s: 17515, 17514
Company: Time		Company: Time	

DN53 2.0

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC_37

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature:

WATER, COOL to 4 °C

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	TAL Metals SW6010B/7060A/7131A/7191/7421/7471 1x1 L Poly.w/HNO3	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
08-23-01	555	Ø1NEØ95W108	SW	7	X ✓				X ✓	X ✓	X ✓				
08-23-01	1450	Ø1NEØ95W107	SW	2							X ✓				MS/MSD

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Johanna Dreher	Date 8-24-01	Shipped via: AK AL GOPRI		Shipping number: 027 2754 1080
Company: Montgomery Watson	Time 10:00			
Received by:	Date 8/25/01	Relinquished by:	Date	Temperature blank temperature upon arrival: °C
Company: AAI	Time 1420	Company:	Time	2.0
Received by:	Date	Relinquished by:	Date	Custody seal #s:
Company:	Time	Company:	Time	17786, 17772

DN53 2.0

Northeast Cape, St. Lawrence Isl. Alaska. 2001 Chain of Custody

Cooler ID/COC#: Ø1N. 38

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Johanna Drehe Burcham DQuest

WATER, COOL to 4 °C

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	TAL Metals SW6010B/7060A/7131A/7191/7421/7471 1x1 L Poly w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
08-23-01	1455	01NE09SW207	Lqd SW	7	X ✓				X ✓	X ✓	X ✓				

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Johanna Drehe	Date 8-24-01	Shipped via: AKAL GOPRI	Shipping number: 027 2754 1080
Company: Montgomery Watson	Time 1000		
Received by:	Date 8/25/01	Relinquished by: Date	Temperature blank temperature upon arrival: °C
Company: AR1	Time 1416	Company: Time	2.0
Received by:	Date	Relinquished by: Date	Custody seal #s:
Company:	Time	Company: Time	17512, 17513

DNS315 DNS3 01-14842 01-14854 1.5

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC 39 46

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Johanna Dreher for Dave Dietz & Michelle Mo-Kolt

WATER, COOL to 4 °C

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly.w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/HCL	COMMENTS
8-23-01	1650	01NEC09SW109	SW	7	X				X	X				X	TAL Metals

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Johanna Dreher	Date ~~8-23-01~~ 8-24-01	Shipped via: AK AL Gold Streak	Shipping number: 027-2754-1080
Company: Montgomery Watson	Time 1000		
Received by:	Date 8/25/01	Relinquished by: Date	Temperature blank temperature upon arrival: 1.5 °C
Company:	Time 1410	Company: Time	
Received by:	Date	Relinquished by: Date	Custody seal #s: 17787, 17790
Company:	Time	Company: Time	

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: 1/2 Delivered By: Fed-X

Tracking NO.: 027 2754 1080 Date: 8/25/01

ARI Job No.: DN53 Lims NO.: 01-14852-01-14856

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: Deborah Thurman Date: 8/25/01 Time: 14:10

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 0.5 °C
7. What kind of packing material was used? ..... Bubble Wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... (YES) N/A NO
15. Were all VOA vials free of air bubbles? ..... YES (NO)
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: Deborah Thurman Date: 8/25/01 Time: 14:10

Explain any discrepancies or negative responses:

01NE00TB108 (3 of 3) Air bubbles - trip Blank all less than Dea Size.

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: 37 Delivered By: Fed-X

Tracking NO.: 027275410 80 Date: 8/25/01

ARI Job No.: DN53 Lims NO.: 014849 - 01-14851

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: Deborah Shuman Date: 8/25/01 Time: 14:10

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 2.0 °C
7. What kind of packing material was used? ..... Bubble Wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... (YES) NA NO
15. Were all VOA vials free of air bubbles? ..... YES (NA) NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: Deborah Shuman Date: 8/25/01 Time 14:10

Explain any discrepancies or negative responses:

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: 38 Delivered By: Fed-X

Tracking NO.: 027275410 80 Date:

ARI Job No.: DN53 Lims NO.: 01-14848-01-14848

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: Deborah Shuman Date: 8/25/01 Time: 14:10

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 2.0 °C
7. What kind of packing material was used? ..... Bubble wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... YES (NA) NO
15. Were all VOA vials free of air bubbles? ..... YES (NA) NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: Deborah Shuman Date: 8/25/01 Time 14:10

Explain any discrepancies or negative responses:

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: 40 Delivered By: Fed-X

Tracking NO.: Date: 8/25/01

ARI Job No.: DN53 Lims NO.: 01-14845-01-14847

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached
   To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: Deborah Thomas Date: 8/25/01 Time: 14:10

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 0.5 °C
7. What kind of packing material was used? ..... Bubble Wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative?
    (If so, Preservation checklist must be attached) ..... (YES) NA NO
15. Were all VOA vials free of air bubbles? ..... YES (NA) NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: Deborah Thomas Date: 8/25/01 Time 14:10

Explain any discrepancies or negative responses:

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: 39 Delivered By: Fed-X

Tracking NO.: 027275410 8C Date: 8/25/01

ARI Job No.: DNS3 Lims NO.: 01-14844 - 01-14844

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: [signature] Date: 8/25/01 Time: 14:10

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 2.0 °C
7. What kind of packing material was used? ..... Bubble Wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... (YES) N/A NO
15. Were all VOA vials free of air bubbles? ..... YES N/A NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: [signature] Date: 8/25/01 Time 14:10

Explain any discrepancies or negative responses:

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: North East Cape

COC NO.: #46 Delivered By: Fed-X

Tracking NO.: Date: 8/25/01

ARI Job No.: DN53 Lims NO.: 01-14842-01-14843

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: Deborah Shaver Date: 8/25/01 Time: 14:10

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 1.5 °C
7. What kind of packing material was used? ..... Bubble Wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... (YES) NO
15. Were all VOA vials free of air bubbles? ..... YES (NA) NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: Deborah Shaver Date: 8/25/01 Time 14:10

Explain any discrepancies or negative responses:

Tal Metals Containers Included Not on COC

027 | Airport of Departure 2754 1080 | Subject to Conditions of Contract on the Back of the Airbill | INSURANCE AVAILABLE | 027 2754 1080

SHIPPERS NAME AND ADDRESS
Montgomery Watson
Harza
4100 Spenard Road
Anchorage, AK 99517 Site: Northeast Cape

SHIPPERS ACCOUNT NUMBER
2744-006515-1

NOT NEGOTIABLE
AIR WAYBILL
(AIR CONSIGNMENT NOTE)

Alaska Airlines
SEATTLE-TACOMA INTERNATIONAL AIRPORT
SEATTLE, WASHINGTON

Copies 3, 9 and 1 of this Air Waybill are originals and have the same validity.

It is agreed that the goods described herein are accepted for carriage in apparent good order and condition (except as noted) and SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY.

CONSIGNEE'S NAME AND ADDRESS
ARI
333 Ninth Avenue
North Seattle, WA 98109-5187

CONSIGNEE'S ACCOUNT NUMBER

TO EXPEDITE MOVEMENT, SHIPMENT MAY BE DIVERTED TO MOTOR OR OTHER CARRIER AS PER TARIFF RULE UNLESS SHIPPER GIVES OTHER INSTRUCTIONS HEREON.

ISSUING CARRIER'S AGENT NAME AND CITY

ALSO NOTIFY NAME AND ADDRESS *(OPTIONAL ACCOUNTING INFORMATION)*
XCall Upon Arrival 206-389-6167
KEEP COOL- DO NOT FREEZE
Flight 152 → 186

AGENTS IATA CODE | ACCOUNT NO.

AIRPORT OF DEPARTURE (ADDR OF FIRST CARRIER) AND REQUESTED ROUTING

☐ [illegible] ☐ DOMESTIC
☒ PRIORITY ☐ INTERNATIONAL

ROUTING AND DESTINATION TO	BY FIRST CARRIER	TO	BY	CURRENCY	CHGS CODE	OTHER PPD	OTHER COLL	DECLARED VALUE FOR CARRIAGE	DECLARED VALUE FOR CUSTOMS

AIRPORT OF DESTINATION | FOR CARRIER USE ONLY FLIGHT/DATE | AMOUNT OF INSURANCE | INSURANCE REQUESTED IN ACCORDANCE WITH CONDITIONS ON REVERSE HEREOF, INDICATE AMOUNT TO BE INSURED IN FIGURES IN BOX MARKED "AMOUNT OF INSURANCE" | TC

HANDLING INFORMATION These commodities licensed by US for ultimate destination. Diversion contrary to US law is prohibited.

Refrigerate- Do not freeze

GO PRI

NO. OF PIECES	GROSS WEIGHT	kg lb	RATE CLASS COMMODITY ITEM NO.	CHARGEABLE WEIGHT	RATE / CHARGE	TOTAL	NATURE AND QUANTITY OF GOODS (INCL. DIMENSIONS OR VOLUME)
7							

PREPAID	WEIGHT CHARGE	COLLECT
A.		

VALUATION CHARGE
D.

TAX

TOTAL OTHER CHARGES DUE AGENT

TOTAL OTHER CHARGES DUE CARRIER

P-UP ZONE	PICKUP CHARGES	ORIGIN ADVANCE CHARGES	DESCRIPTION OF ORIGIN ADVANCE
	B.	K.	

DEL ZONE	DELIVERY CHARGES	DEST. ADVANCE CHARGES	DESCRIPTION OF DEST. ADVANCE
	C.	L	

OTHER CHARGES AND DESCRIPTION | ITEMS PREPAID | ITEMS COLLECT
F.

The shipper certifies that the particulars on the face hereof are correct, agrees to the CONDITIONS ON REVERSE HEREOF, accepts that carrier's liability is limited as stated on the reverse hereof and accepts such value unless a higher value for carriage is declared on the face hereof subject to an additional charge and that insofar as any part of the consignment contains restricted articles, such part is properly described by name and is in proper condition for carriage by air according to applicable national governmental regulations, and for international shipments, the current International Air Transport Association's Restricted Articles Regulations.

Bonnie McLean B McLean

COD | CURRENCY

TOTAL PREPAID | TOTAL COLLECT

SIGNATURE OF SHIPPER OR HIS AGENT ABOVE AND INITIAL APPLICABLE BOX BELOW.
BM THIS SHIPMENT DOES NOT CONTAIN DANGEROUS GOODS.
☐ THIS SHIPMENT DOES CONTAIN DANGEROUS GOODS.

EXECUTED ON
(Date) (Time) at (Place) SIGNATURE OF ISSUING CARRIER OR ITS AGENT.

Carrier certifies goods described above were received for carriage subject to the Conditions on reverse hereof, the goods then being in apparent good order and condition except as noted hereon

CURRENCY CONVERSION RATES | CC CHARGES IN DEST. CURRENCY

FOR CARRIERS USE ONLY AT DESTINATION | CHARGES AT DESTINATION | TOTAL COLLECT CHARGES

ALL COLLECT CHARGES IN DESTINATION CURRENCY

0272754 1080

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Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

B DN40

CoolerID/COC#: Ø1NEC 27

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Jane Whitsett Chelsea Marshall

Date	Time	Sample ID	Matrix	Total Containers	SOIL, Cool to 4°C: DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Pb Zn Cr Metals SW6010B/7000 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	TAL metals Selenic/Hg	COMMENTS
08-21-01	1400	Ø1NE29SD120	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓		
08-21-01	1405	Ø1NE29SD121	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓		
08-21-01	1415	Ø1NE29SD122	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓		Ø1NE29SD122
08-21-01	1025	Ø1NE29SD128	SD	2		X ✓	X ✓							
08-21-01	1045	Ø1NE29SD129	SD	2		X ✓	X ✓							
08-21-01	1900	Ø1NEØØTB104	SD	1		X ✓	X ✓							
8-21-01	1740	Ø1NE29SD127	SD	6	X ✓	X ✓	X ✓		X ✓	X ✓			X ✓	
8-21-01	1800	Ø1NE29SD126	SD	6	X ✓	X ✓	X ✓		X ✓	X ✓			X ✓	

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Ellen Mans (Ellen Mans)	Date 8-22-01	Shipped via: AK AL GO PRI	Shipping number: 027 2754 1135
Company: Montgomery Watson	Time 1730		
Received by: Jason Kugler	Date 8-24-01	Relinquished by:	Date
Company: AKI	Time 940	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 3.5 °C

Custody seal #s: 17773, 17779

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

A # DN46

01-14750 - 01-14763

Cooler# COC#: 0. -C 26

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder

MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Laura Grant Melissa Markell

Date	Time	Sample ID	Matrix	Total Containers	SOIL, Cool to 4°C: DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Pb Zn Cr Metals SW6010B/7000 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	TAL Metals Suite 6010B/7471B	COMMENTS
8-21-01	0900	01NE29SD123	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓		
8-21-01	0910	01NE29SD124	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓		
8-21-01	0950	01NE29SD125	SD	9	X ✓				X ✓	X ✓	X ✓	X ✓		MS/MSD DRO/RRO PAH, PCB, Pb, Zn, Cr only
8-21-01 Dup	0955	01NE29SD225	SD	4	X ✓				X ✓	X ✓	X ✓			
8-21-01	1025	01NE29SD128	SD	4	X ✓				X ✓	X ✓			X ✓	
8-21-01	1045	01NE29SD129	SD	4	X ✓				X ✓	X ✓			X ✓	

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Bill Mavs Eileen Mavs	Date 8-22-01	Shipped via: AK AL GO PRI	Shipping number: 027 2754 1135
Company: Montgomery Watson	Time 1730		
Received by: Theresa Thayer	Date 8-24-01	Relinquished by:	Date
Company: ARI	Time 955	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 1.5°C

Custody seal #s: 17782, 17781

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: 01NEC26 Delivered By: Ak Airlines

Tracking NO.: 027 27541135 Date: 8-24-01

ARI Job No.: DN40 Lims NO.: 01-14750 - 01-14755

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: Justin Ruyle Date: 8-24-01 Time: 955

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 1.5 °C
7. What kind of packing material was used? ..... Bubble wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... YES (NO)
15. Were all VOA vials free of air bubbles? ..... YES N/A NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: Deborah Thomas Date: 8/24/01 Time 9:55

Explain any discrepancies or negative responses:

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: 01NEC27 Delivered By: Ak Airlines

Tracking NO.: 027 27541135 Date: 8-24-01

ARI Job No.: DN40 Lims NO.: 01-14756 - 01-14761

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler?	(YES)	NO
2. Were custody papers included with the cooler	(YES)	NO
3. Were custody papers properly filled out (ink, signed etc.)?	(YES)	NO
4. Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted BY: Susan Snyder Date: 8-24-01 Time: 9:40

Log-IN Phase:

5. Was a temperature blank include in the cooler?	(YES)	NO
6. Record Cooler Temperature	3.5 °C	
7. What kind of packing material was used?	Bubble Wrap	
8. Was sufficient ice used (if appropriate)?	(YES)	NO
9. Were all bottles sealed in separate plastic bags?	(YES)	NO
10. Did all bottles arrive in good condition (unbroken)?	(YES)	NO
11. Were all bottle labels complete and legible?	(YES)	NO
12. Did all bottle labels and tags agree with custody papers?	(YES)	NO
13. Were all bottles used correct for the requested analyses?	(YES)	NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) VOC - at bench	(YES)	NO
15. Were all VOA vials free of air bubbles?	(YES)	NO
16. Was sufficient amount of sample sent in each bottle?	(YES)	NO
17. Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened By: Susan Snyder Date: 8-24-01 Time 9:40

Explain any discrepancies or negative responses:

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC 21

DN39

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder

MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Tang Quist Melissa Markell

Date (2001)	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B/7000 Pb,Zn,Cr 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
					SOIL, Cool to 4°C								
8-20	1020	01NE28SD171	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-20	1030	01NE28SD172	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-20	1035	01NE28SD173	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-20	1040	01NE28SD174	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-20	1045	01NE28SD175	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-20	1055	01NE28SD176	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-20	1025	01NE28SD271	SD	4	X ✓				X ✓	X ✓	X ✓		01NE28SD271
8-20	1050	01NE28SD275	SD	4	X ✓				X ✓	X ✓	X ✓		

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Eileen Maus	Date 8-22-01	Shipped via: AK AL GO PRI	Shipping number: 627 2754 1135
Company: Montgomery Watson	Time 1730		
Received by: Jessica Ruple	Date 8-24-01	Relinquished by:	Date
Company: ARI	Time 9:50	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 3.5 °C

Custody seal #s: 17527, 17528

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

DN39

Cooler ID/COC#: Ø °C 22

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Douglas Quist Melissa L Markett

Date 2001	Time	Sample ID	Matrix	Total Containers	SOIL, Cool to 4°C: DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B/~~7000~~ Pb Zn Cr 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
8-20	1115	OINE28SD177	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-20	1120	OINE28SD178	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-20	1125	OINE28SD179	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-20	1130	OINE28SD180	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-20	1135	OINE28SD181	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-20	1140	OINE28SD182	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Eileen Mars	Date 8-22-01	Shipped via: AK AL GO PRI	Shipping number: 027 2754-1135
Company: Montgomery Watson	Time 1730		
Received by: Susan Snyder	Date 8-24-0	Relinquished by:	Date
Company: ARI	Time 945	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 1.5°C °C

Custody seal #s: 17783, 17784

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

DN39

Cooler ID/COC#: Ø1NEC24

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Jane Whitsett Melissa Markell

Date 2001	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B/7000 Pb Zn Cr 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
8-20	1355	O1NE28SD159	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-20	1405	O1NE28SD160	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-20	1410	O1NE28SD161	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-20	1430	O1NE28SD163	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-20	1440	O1NE28SD164	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-20	1435	O1NE28SD263	SD	4	X ✓				X ✓	X ✓	X ✓		

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Eileen Maus	Date 8-22-01	Shipped via: AK AL GO PRI	Shipping number: 027 2754 1135
Company: Montgomery Watson	Time 1730		
Received by: Susan Snyder	Date 8-24-01	Relinquished by:	Date
Company: ARI	Time 945	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 1.5 °C

Custody seal #s: 17778, 17862

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: 01NEC21 Delivered By: AK Airlines

Tracking NO.: 027 27541135 Date: 8-24-01

ARI Job No.: DN39 Lims NO.: 01-14730 to 01+14749

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: Jeester Steyde Date: 8-24-01 Time: 9:50

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 3.5 °C
7. What kind of packing material was used? ..... Bubble wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... YES (NO)
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) AK102/103 waters only ..... (YES) (NO) SS 8/24/01
15. Were all VOA vials free of air bubbles? ..... YES NA NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: CJ Date: 8-24-01 Time 1000

Explain any discrepancies or negative responses:

01NE28SD172 PCB JAR TIME ON LABEL = 1130

01NE28SD173 PCB " " " " = 1030

MET " " NO TIME LISTED CJ 8/24/01

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: ONEC22 Delivered By: Ak Airlines

Tracking NO.: 027 2754 1135 Date: 8-24-01

ARI Job No.: DN39 Lims NO.: 01-14736 - 01-14743

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: Susan Ruegler Date: 8-24-01 Time: 945

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 1.5 °C
7. What kind of packing material was used? ..... Bubble Wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... (YES) (NO) 8/24/01
15. Were all VOA vials free of air bubbles? ..... YES N/A NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... OK NA

Cooler Opened By: SF Date: 8/24/01 Time 1000

Explain any discrepancies or negative responses:

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: 01NEC24 Delivered By: Ak Airlines

Tracking NO.: 027 27541135 Date: 8-24-01

ARI Job No.: DN39 Lims NO.: 01-14730 - 01-14735

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler?	(YES)	NO
2. Were custody papers included with the cooler	(YES)	NO
3. Were custody papers properly filled out (ink, signed etc.)?	(YES)	NO
4. Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted BY: Susan Snyder Date: 8-24-01 Time: 945

Log-IN Phase:

5. Was a temperature blank include in the cooler?	(YES)	NO
6. Record Cooler Temperature	1.5 °C	
7. What kind of packing material was used?	Bubble wrap	
8. Was sufficient ice used (if appropriate)?	(YES)	NO
9. Were all bottles sealed in separate plastic bags?	(YES)	NO
10. Did all bottles arrive in good condition (unbroken)?	(YES)	NO
11. Were all bottle labels complete and legible?	(YES)	NO
12. Did all bottle labels and tags agree with custody papers?	(YES)	NO
13. Were all bottles used correct for the requested analyses?	(YES)	NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) AK102/103	YES	(NO)
15. Were all VOA vials free of air bubbles?	YES	NA NO
16. Was sufficient amount of sample sent in each bottle?	(YES)	NO
17. Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened By: [illegible] Date: 8-24-01 Time 1000

Explain any discrepancies or negative responses:

DN 88

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

Ø1NEC_64

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Bonnie Mechan

Date 2001	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly.w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8-27	1700	Ø1NE07WP102	W	6		X	X								
8-27	1700	Ø1NE07WP202	W	6			X								MS/MSD
8-27	1900	Ø1NE00TB118	W	3		X	X								
8-27	1430	Ø1NE07WP103	W	6		X	X								
8-26	1620	Ø1NE07WP101	W	6		X	X								
8-28	0930	Ø1NE30WP102	W	9		X	X							X	

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Bonnie Mechan	Date 8-28-00	Shipped via: Gold Sheath AK AK	Shipping number: 4218 4015
Company: Montgomery Watson	Time 1200		
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 4.0 °C

Custody seal #s: 17889 / 17895

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: NECape

COC NO.: 01 NEC 69 Delivered By: AK AIRLINES

Tracking NO.: 0274218 4015 Date: 8/29/01

ARI Job No.: DN88 Lims NO.: 01-15273

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler?	(YES)	NO
2. Were custody papers included with the cooler	(YES)	NO
3. Were custody papers properly filled out (ink, signed etc.)?	(YES)	NO
4. Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted BY: cy Date: 8/29/01 Time: 1355

Log-IN Phase:

5. Was a temperature blank include in the cooler?	(YES)	NO
6. Record Cooler Temperature	4.0 °C	
7. What kind of packing material was used?	BUBBLE WRAP	
8. Was sufficient ice used (if appropriate)?	(YES)	NO
9. Were all bottles sealed in separate plastic bags?	(YES)	NO
10. Did all bottles arrive in good condition (unbroken)?	(YES)	NO
11. Were all bottle labels complete and legible?	(YES)	NO
12. Did all bottle labels and tags agree with custody papers?	(YES)	NO
13. Were all bottles used correct for the requested analyses?	(YES)	NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached)	(YES)	NO
15. Were all VOA vials free of air bubbles?	YES	(NO)
16. Was sufficient amount of sample sent in each bottle?	(YES)	NO
17. Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened By: [signature] Date: 8/29/01 Time 1605

Explain any discrepancies or negative responses:

ONE 00 TB11% - AIR BUBBLES (trip blanks)

DN88

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

Ø1NEC1C

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Mitchell A. Stinnett Bonnie McKee

Date	Time	Sample ID	Matrix	Total Containers	WATER, COOL to 4 °C: DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/7421/7471 1x1 L Poly.w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8-28-01	0930	Ø1NE30WP1Ø2	GW	7	X✓				X✓		X✓	X✓	X✓		
8-27-01	1411	Ø1NEØ6WP1Ø2	GW	2	X✓										

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Bonnie McKee	Date 8-28-01	Shipped via: AK A1- Gold Streak		Shipping number: 4218 397	
Company: Montgomery Watson	Time 1400				
Received by: RJoshi	Date 8/29/01	Relinquished by:	Date	Temperature blank temperature upon arrival: 4.0	°C
Company: ARI	Time 1355	Company:	Time		
Received by:	Date	Relinquished by:	Date	Custody seal #s: 17556 & 17555	
Company:	Time	Company:	Time		

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: NE Cape

COC NO.: 01NEC70 Delivered By: AK Airlines

Tracking NO.: 027421839 71 Date: 8/29/01

ARI Job No.: DN800 Lims NO.: 01-15273-01-15280

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler?	(YES)	NO
2. Were custody papers included with the cooler	(YES)	NO
3. Were custody papers properly filled out (ink, signed etc.)?	(YES)	NO
4. Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted BY: CJ Date: 8/29/01 Time: 1355

Log-IN Phase:

5. Was a temperature blank include in the cooler?	(YES)	NO
6. Record Cooler Temperature	4.0 °C	
7. What kind of packing material was used?	BUBBLE WRAP	
8. Was sufficient ice used (if appropriate)?	(YES)	NO
9. Were all bottles sealed in separate plastic bags?	(YES)	NO
10. Did all bottles arrive in good condition (unbroken)?	(YES)	NO
11. Were all bottle labels complete and legible?	(YES)	NO
12. Did all bottle labels and tags agree with custody papers?	(YES)	NO
13. Were all bottles used correct for the requested analyses?	(YES)	NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached)	(YES)	NO
15. Were all VOA vials free of air bubbles?	(YES)	NO
16. Was sufficient amount of sample sent in each bottle?	(YES)	NO
17. Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened By: [signature] Date: 8/29/01 Time 1605

Explain any discrepancies or negative responses:

DN8

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

Ø1NEC_71

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature:

WATER, COOL to 4 °C

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8-28-01	1000	Ø1NEØ7WP183 181	GW	7	X				X	X	X				

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Bonnie Mclain	Date 8-28-01	Shipped via: Gold Streak AK HL	Shipping number: 42184413
Company: Montgomery Watson	Time 1200		
Received by: Joshi	Date 8/29/01	Relinquished by:	Date
Company: ARI	Time 1600	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 1.5 °C

Custody seal #s: 17088 & 17170

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: NECape

COC NO.: 01NEC71 Delivered By: AK Airlines

Tracking NO.: 027421844B Date: 8/29/01

ARI Job No.: DN98 Lims NO.: 01-15273-01-15280

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler?	(YES)	NO
2. Were custody papers included with the cooler	(YES)	NO
3. Were custody papers properly filled out (ink, signed etc.)?	(YES)	NO
4. Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted BY: [signature] Date: 8/29/01 Time: 1600

Log-IN Phase:

5. Was a temperature blank include in the cooler?	(YES)	NO
6. Record Cooler Temperature	1.5 °C	
7. What kind of packing material was used?	Bubble Wrap	
8. Was sufficient ice used (if appropriate)?	(YES)	NO
9. Were all bottles sealed in separate plastic bags?	(YES)	NO
10. Did all bottles arrive in good condition (unbroken)?	(YES)	NO
11. Were all bottle labels complete and legible?	(YES)	NO
12. Did all bottle labels and tags agree with custody papers?	(YES)	NO
13. Were all bottles used correct for the requested analyses?	(YES)	NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached)	(YES)	NO
15. Were all VOA vials free of air bubbles?	(YES)	NO
16. Was sufficient amount of sample sent in each bottle?	(YES)	NO
17. Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened By: [signature] Date: 8/29/01 Time 1605

Explain any discrepancies or negative responses:

DN88

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

Ø1NEC72

Montgomery Watson
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4100 Spenard Road
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(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: William A. O'Connell

Date	Time	Sample ID	Matrix	Total Containers	WATER, COOL to 4 °C: DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8-27-01	1430	ØINE87WP103	GW	7	X				X	X	X				

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: William A. O'Connell	Date 8-28-01	Shipped via: AK. Air. Goldstreak	Shipping number: 4218 4030
Company: Montgomery Watson	Time 1200		
Received by: Joshua	Date 8/29/01	Relinquished by:	Date
Company: ARI	Time 1605	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 2.0 °C

Custody seal #s: 2911 & 17258

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: NECape

COC NO.: 01NEC72 Delivered By: AK Airlines

Tracking NO.: 027421840 30 Date: 8/29/01

ARI Job No.: DN88 Lims NO.: 01-15273-15286

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: CJ Date: 8/29/01 Time: 1605

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 2.0 °C
7. What kind of packing material was used? ..... BUBBLE WRAP
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... (YES) NO
15. Were all VOA vials free of air bubbles? ..... (YES) NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: [signature] Date: 8/29/01 Time: 1800

Explain any discrepancies or negative responses:

DN88

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

Ø1NEC 67

Montgomery Watson
Harza
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Anchorage AK 99517
(907)248-8883
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Laboratory:
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333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Bonnie Mhea

WATER, COOL to 4 °C

Date 2001	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8-27	1750	01NE07WP102	W	7	X				X	X	X				
8-27	1702	01NE07WP202	W	2					X						

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Bonnie Mhea	Date 8-28-01	Shipped via: AK Air Gold Streak	Shipping number: 4210 4402
Company: Montgomery Watson	Time 1200		
Received by: EJoshi	Date 8/29/01	Relinquished by:	Date
Company: ARI	Time 1355	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 5.0 °C

Custody seal #s: 17854 / 17255

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: NEC

COC NO.: 01 NEC67 Delivered By: AK Airlines

Tracking NO.: 027 4218 4402 Date: 8/29/01

ARI Job No.: DN88 Lims NO.: 01-15273- 01-15280

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler?	(YES)	NO
2. Were custody papers included with the cooler	(YES)	NO
3. Were custody papers properly filled out (ink, signed etc.)?	(YES)	NO
4. Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted BY: CJ Date: 8/29/01 Time: 13 1555

Log-IN Phase:

5. Was a temperature blank include in the cooler?	(YES)	NO
6. Record Cooler Temperature	5.0 °C	
7. What kind of packing material was used?	Bubble wrap/bags	
8. Was sufficient ice used (if appropriate)?	(YES)	NO
9. Were all bottles sealed in separate plastic bags?	(YES)	NO
10. Did all bottles arrive in good condition (unbroken)?	(YES)	NO
11. Were all bottle labels complete and legible?	(YES)	NO
12. Did all bottle labels and tags agree with custody papers?	(YES)	NO
13. Were all bottles used correct for the requested analyses?	(YES)	NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached)	(YES)	NO
15. Were all VOA vials free of air bubbles?	(YES)	NO
16. Was sufficient amount of sample sent in each bottle?	(YES)	NO
17. Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened By: Jw Branscer Date: 8/29/01 Time 1605

Explain any discrepancies or negative responses:

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC 10

DNC4

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Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround Melissa Markell

Sampler's signature: Douglas Quist Bruchman

2001 Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B/7000 1 x 4oz. amber glass jar (Pb ZnCu)	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
8-18	1325	01NE28SD117	SD		X ✓				X ✓	X ✓	X ✓	X ✓	
8-18	1335	01NE28SD118	SD		X ✓				X ✓	X ✓	X ✓	X ✓	
8-18	1340	01NE28SD119	SD		X ✓				X ✓	X ✓	X ✓	X ✓	
8-18	1345	01NE28SD120	SD		X ✓				X ✓	X ✓	X ✓	X ✓	
8-18	1350	01NE28SD121	SD		X ✓				X ✓	X ✓	X ✓	X ✓	
8-18	1355	01NE28SD122	SD		X ✓				X ✓	X ✓	X ✓	X ✓	

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: [signature]	Date 8-20-01	Shipped via: GO PRI AK Airlines		Shipping number: 2754 1146	
Company: Montgomery Watson	Time 1000				
Received by: [signature]	Date 8/21/01	Relinquished by:	Date	Temperature blank temperature upon arrival:	°C
Company: AK Airlines	Time 2230	Company:	Time	2.0°C	
Received by:	Date	Relinquished by:	Date	Custody seal #s:	
Company:	Time	Company:	Time	17949, 17953	

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

DN04

Cooler ID/COC#: 01 [illegible] 12

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Douglas Quist Brenda Mahoney Melissa Markell

2001 Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B/7000 Pb 24 Cr 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
					SOIL, Cool to 4°C								
8-18	1510	OINE28SD123	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-18	1520	OINE28SD124	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-18	1525	OINE28SD125	SD	9	X ✓				X ✓	X ✓	X ✓	X ✓	ms/msd DRO/RRO, PAHSIM PCB, Metals only
8-18	1540	OINE28SD126	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-18	1545	OINE28SD127	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-18	1550	OINE28SD128	SD	5	X ✓				X ✓	X ✓	X ✓	X ✓	
8-18	1530	OINE28SD225	SD	4	X ✓				X ✓	X ✓	X ✓		

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Eileen Mann	Date 8-20-01	Shipped via: GO PRI AK Airlines	Shipping number: 2754 1146
Company: Montgomery Watson	Time 1080		
Received by: Jeanne Snyder	Date 8/21/01	Relinquished by:	Date
Company: ARI	Time 2210	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 1.0°C

Custody seal #s: 17323, 17552

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

Cooler ID/COC#: Ø1NEC 13

DN04

Montgomery Watson Harza
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NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround Melissa Markell

Sampler's signature: Douglas Quist Bruce Laan

Date (2001)	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B/~~7000~~ Pb Zn Cr 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
8-18	1610	01NE28SD129	SD		X ✓				X ✓	X ✓	X ✓	X ✓	
8-18	1615	01NE28SD130	SD		X ✓				X ✓	X ✓	X ✓	X ✓	
8-18	1620	01NE28SD131	SD		X ✓				X ✓	X ✓	X ✓	X ✓	
8-18	1625	01NE28SD132	SD		X ✓				X ✓	X ✓	X ✓	X ✓	
8-18	1630	01NE28SD133	SD		X ✓				X ✓	X ✓	X ✓	X ✓	
8-18	1635	01NE28SD134	SD		X ✓				X ✓	X ✓	X ✓	X ✓	

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Eileen Maus	Date 8-20-01	Shipped via: GO PRI AK Airlines	Shipping number: 2754 1146
Company: Montgomery Watson	Time 1000		
Received by: Susan Snyder	Date 8/21/01	Relinquished by:	Date
Company: ARI	Time 2215	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 2.0°C

Custody seal #s: 3160, 17364

0INEC10

COOLER RECEIPT FORM

Analytical Resources Incorporated

ARI Client: Montgomery Watson Project: Northeast Cape

Delivered by: Alt Carlones Tracking No.: 027275411 46 Date: 8/21/01

ARI Project No. DN04 LIMS Nos.: 01-14386 01-14404

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler?	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink,signed,etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted by: Susan Snyder Date: 8-21-01 Time: 2215

Log-in Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	2.0	degrees C
7.	What kind of packing material was used?	Bubble wrap	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	(Yes)	No
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	(Yes)	No
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	Yes	(No)
15.	Were all VOA vials free of air bubbles?	Yes N A	No
16.	Was sufficient amount of sample sent in each bottle?	(Yes)	No
17.	Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened by: (Logged by CA) Date: 8/22/01 Time: 900

Explain any discrepancies or negative responses:

01 NEC 12

COOLER RECEIPT FORM

Resources Incorporated

ARI Client: Montgomery Watson Project: Northeast Cape

Delivered by: ak Airlines Tracking No.: 02725411 46 Date: 8/21/01

ARI Project No. DW04 LIMS Nos.: 01-14386 - 01-14404

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler?	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink,signed,etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted by: JeAnn Snyder Date: 8-21-01 Time: 2210

Log-in Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	1.0 °C	degrees C
7.	What kind of packing material was used?	Bubble Wrap	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	(Yes)	No
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	(Yes)	No
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	(Yes)	(No) sg
15.	Were all VOA vials free of air bubbles?	Yes NA	No
16.	Was sufficient amount of sample sent in each bottle?	(Yes)	No
17.	Notify Project Manager of any discrepancies or concerns	OK	NA

Cooler Opened by: (Logged) cy Date: 8/22/01 Time: 900

Explain any discrepancies or negative responses:

G1NEC13

COOLER RECEIPT FORM

Analytical Resources Incorporated

RI Client: Montgomery Watson Project: Northeast Cape

Delivered by: Fed Ex Tracking No.: 027275411 46 Date: 8/21/01

ARI Project No. DN04 LIMS Nos.: 01-14386 - 01-14409

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler?	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink,signed,etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted by: Jessica Snyder Date: 8-21-01 Time: 2230

Log-in Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	2.0	degrees C
7.	What kind of packing material was used?	Bubble wrap	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	(Yes)	No
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	(Yes)	No
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	Yes	(No)
15.	Were all VOA vials free of air bubbles?	Yes NA	No
16.	Was sufficient amount of sample sent in each bottle?	(Yes)	No
17.	Notify Project Manager of any discrepancies or concerns	OK	NA

Cooler Opened by: logged in Date: 8/22/01 Time: 900

Explain any discrepancies or negative responses:

PLEASE TYPE

027 | Airport of Departure | 2754 1146 | Subject to Conditions of Contract on the Back of the Airbill | INSURANCE AVAILABLE | 027 2754 1146

SHIPPERS NAME AND ADDRESS	SHIPPERS ACCOUNT NUMBER
Montgomery Watson Harza 4100 Spenard Road Anchorage, AK 99517 Site: Northeast Cape	2744-006515-1

NOT NEGOTIABLE
AIR WAYBILL
(AIR CONSIGNMENT NOTE)

Alaska Airlines
SEATTLE-TACOMA INTERNATIONAL AIRPORT
SEATTLE, WASHINGTON

Copies 3, 9 and 1 of this Air Waybill are originals and have the same validity.

It is agreed that the goods described herein are accepted for carriage in apparent good order and condition (except as noted) and SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY.

CONSIGNEE'S NAME AND ADDRESS	CONSIGNEE'S ACCOUNT NUMBER
ARI 333 Ninth Avenue North Seattle, WA 98109-5187	

TO EXPEDITE MOVEMENT, SHIPMENT MAY BE DIVERTED TO MOTOR OR OTHER CARRIER AS PER TARIFF RULE UNLESS SHIPPER GIVES OTHER INSTRUCTIONS HEREON.

ISSUING CARRIER'S AGENT NAME AND CITY

ALSO NOTIFY NAME AND ADDRESS *(OPTIONAL ACCOUNTING INFORMATION)*
Call Upon Arrival 206-389-6167
KEEP COOL - DO NOT FREEZE

AGENTS IATA CODE	ACCOUNT NO.

☐ DOOR-TO-DOOR ☐ DOMESTIC
☒ PRIORITY ☐ INTERNATIONAL

AIRPORT OF DEPARTURE (ADDR OF FIRST CARRIER) AND REQUESTED ROUTING

ROUTING AND DESTINATION						CURRENCY	CHGS CODE	WT/VAL		OTHER		DECLARED VALUE FOR CARRIAGE	DECLARED VALUE FOR CUSTOMS
TO	BY FIRST CARRIER	TO	BY	TO	BY			PPD	COLL	PPD	COLL		

AIRPORT OF DESTINATION	FOR CARRIER USE ONLY FLIGHT/DATE	FLIGHT/DATE	AMOUNT OF INSURANCE	INSURANCE - If shipper requests insurance in accordance with conditions on reverse hereof, indicate amount to be insured in figures in box marked amount of insurance.	TC

HANDLING INFORMATION These commodities licensed by US for ultimate destination. Diversion contrary to US law is prohibited.

Refrigerate - Do not freeze

GO-PRI

NO. OF PIECES RCP	GROSS WEIGHT	kg lb	RATE CLASS / COMMODITY ITEM NO.	CHARGEABLE WEIGHT	RATE / CHARGE	TOTAL	NATURE AND QUANTITY OF GOODS (INCL. DIMENSIONS OR VOLUME)

PREPAID / WEIGHT CHARGE / COLLECT
A.

VALUATION CHARGE
D.

TAX
I.

TOTAL OTHER CHARGES DUE AGENT

TOTAL OTHER CHARGES DUE CARRIER

P-UP ZONE	PICKUP CHARGES	ORIGIN ADVANCE CHARGES	DESCRIPTION OF ORIGIN ADVANCE
	B.	K.	
DEL ZONE	DELIVERY CHARGES	DEST. ADVANCE CHARGES	DESCRIPTION OF DEST. ADVANCE
	C.	L	

OTHER CHARGES AND DESCRIPTION
F.

ITEMS PREPAID	ITEMS COLLECT

The shipper certifies that the particulars on the face hereof are correct, agrees to the CONDITIONS ON REVERSE HEREOF, accepts that carrier's liability is limited as stated on the reverse hereof and accepts such value unless a higher value for carriage is declared on the face hereof subject to an additional charge and that insofar as any part of the consignment contains restricted articles, such part is properly described by name and is in proper condition for carriage by air according to applicable national governmental regulations, and for international shipments, the current International Air Transport Association's Restricted Articles Regulations.

G. COD ➡ CURRENCY

TOTAL PREPAID | TOTAL COLLECT

CURRENCY CONVERSION RATES | TOTAL COLLECT IN DESTINATION CURRENCY

SIGNATURE OF SHIPPER OR HIS AGENT ABOVE AND INITIAL APPLICABLE BOX BELOW.

[X] THIS SHIPMENT DOES NOT CONTAIN DANGEROUS GOODS.

[ ] THIS SHIPMENT DOES CONTAIN DANGEROUS GOODS.

EXECUTED ON

(Date) (Time) at (Place) SIGNATURE OF ISSUING CARRIER OR ITS AGENT.

Carrier certifies goods described above were received for carriage subject to the Conditions on reverse hereof, the goods then being in apparent good order and condition except as noted hereon

DNPD

Northeast Cape, St. Lawrence Isla Alaska. 2001 Chain of Custody

01-15078 : 01-15089

Cooler ID#: ✓
ØINEC 53

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Johanna Melissa Markell Dana Quist

2001 Date	Time	Sample ID	Matrix	Total Containers	SOIL, Cool to 4°C: DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B SIM 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B/7000 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
8/24	1130	ØINE21SB170	Soil	2		1 ✓	1 ✓						
8/24	1125	ØINE21SS170	Soil	2		1 ✓	1 ✓						
8/24	0900	ØINE24SD114	SD	2		1 ✓	1 ✓						
8/24	1505	ØINE21SD113	SD	2		1 ✓	1 ✓						
8/24	0905	ØINE24SD214	SD	2		1 ✓	1 ✓						
8/24	1100	ØINE21SB169	Soil	2		1 ✓	1 ✓						
8/24	1020	ØINE21SB171	Soil	2		1 ✓	1 ✓						
8/24	1345	ØINE21SS172	Soil	2		1 ✓	1 ✓						
8/24	1425	ØINE21SD114	SD	2		1 ✓	1 ✓						
8/24	1340	ØINE21SS173	Soil	2		1 ✓	1 ✓						
8/24	0930	ØINE24SD115	SD	2		1 ✓	1 ✓						
8/24	1900	ØINE00TB109	SD	1		1 ✓	1 ✓						

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Johanna L. Drescher Johanna L. Drescher	Date 08-24-01	Shipped via: Goldstreak	Shipping number: 4218 4435
Company: Montgomery Watson	Time 1400		
Received by: Joshua	Date 8/25/01	Relinquished by:	Date
Company: ARI	Time 1310	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 5.0 °C

Custody seal #s: 15, 16

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: 53 Delivered By: Fed X

Tracking NO.: 027 4218 4435 Date: 8/28/01

ARI Job No.: DN10 Lims NO.: 01-15078 - 01-15089

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: [signature] Date: 8/28/01 Time: 11:00

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 5.0 °C
7. What kind of packing material was used? ..... Bubble Wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... YES N/A NO
15. Were all VOA vials free of air bubbles? ..... YES N/A NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: [signature] Date: 8/28/01 Time 11:00

Explain any discrepancies or negative responses:

Gold Streak Alaska Airlines

www.ALASKAAIR.com
1-800-2ALASKA

P.O. Box 68900
Seattle, WA 98168

Airline	Origin	AIR WAYBILL Number
027-	[illegible]	4218 3853

From Shipper: [illegible] 907 248-8883

Address: [illegible] SPENARD ROAD

Phone:

City: [illegible] State: Zip Code:

I certify that this shipment does not contain any unauthorized explosives, destructive devices or hazardous materials.

Shipper's Signature PRINTED NAME [illegible] Date 8-24-01

Domestic ☒ International ☐

Insured Value Declared Value For Customs

Airport of Departure | First Carrier | Airport of Destination

Nature and Quantity of Goods: Samples Soil/water

Handling Information: Kay [illegible] CC

To Consignee: (Complete Consignee information required on package)

[illegible] RESOURCE INC

Address: [illegible] Phone:

City: State: Zip Code

Consignee's Printed Name - Signature (Received in Good Order Except as Noted) Time a.m. p.m. Date

Airline	Origin	AIR WAYBILL Number
027-	[illegible]	4218 3853

Gold Streak Alaska Airlines

This is a non-negotiable AIR WAYBILL subject to the terms and conditions set forth on the reverse of shippers copy.

Total Pieces: 1 Total Weight: 11 [illegible]

MULTIPLE PIECES FOR AS FLIGHTS ONLY
Please ✓ If Live Animal ☐

Form of Payment
☐ Cash ☐ Check ☐ GBL–Attach GBL
☒ AS / QX Account Number [illegible]
☐ Credit Card Number
Validata Approval (Required for all except cash and GBL)

CHECK ONE ONLY
☒ AIRPORT TO AIRPORT SERVICE
PICK-UP ONLY ☐ DELIVERY ONLY ☐ DOOR TO DOOR ☐

Executed By Date/Time a.m. p.m.

Carrier	Flight	Destination	E.T.A.
AS	152	[illegible]	1:35
	[illegible]	[illegible]	[illegible]

Remarks

PCS.	WT. RANGE	RATE	CHARGE
	GSX LETTER		
	1-15		
1	16-50		75.00
	51-70		
	71-100		
Subtotal Charges			75.00

AS COURIER CHARGES

Other Charges

1st Carrier	
2nd Carrier	
3rd Carrier	
Tax (Offline only)	
Pickup (NON AS COURIER)	
Delivery (NON AS COURIER)	
Special Service	
Insurance	
TOTAL	75.00

Shipper to complete all shaded areas

Door-To-Door Service: (800) 634-7113

2. Consignee Memo

DN03 01-14376 - 01-14385

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC 08

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

WATER, COOL to 4 °C

Sampler's signature: Daught Ponchea Melissa Marshall

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8/18/01	1010	01NE28SW211	SW	4	X✓					X✓					
8/18/01	1710	01NE28SW113	SW	4	X✓					X✓					

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Eileen Mauss	Date 8-20-01	Shipped via: GO PAI AK Airlines		Shipping number: 2754 1146
Company: Montgomery Watson	Time 1000			
Received by: Susan Snyder	Date 8/20/01	Relinquished by:	Date	Temperature blank temperature upon arrival: °C
Company: ARI	Time 2225	Company:	Time	2.5°C
Received by:	Date	Relinquished by:	Date	Custody seal #s:
Company:	Time	Company:	Time	17577, 17575

QINEC08

COOLER RECEIPT FORM

Analytical Resources Incorporated

ARI Client: Muhanza Project: NECore

Delivered by: Fed Ex Tracking No.: 027975411 46 Date: 8/21/01

ARI Project No. DN03 LIMS Nos.: 01-14377 - 01-14378

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler?	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink,signed,etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	OK	NA

Cooler Accepted by: Teresa Snyder Date: 8-21-01 Time: 2225

Log-in Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	2.5°C	degrees C
7.	What kind of packing material was used?	Bubble Wrap	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	(Yes)	No
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	(Yes)	No
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	Yes	No
15.	Were all VOA vials free of air bubbles?	(Yes)	No
16.	Was sufficient amount of sample sent in each bottle?	Yes	No
17.	Notify Project Manager of any discrepancies or concerns	OK	NA

Cooler Opened by: Edward Thomas Date: 8/21/01 Time: 2225

Explain any discrepancies or negative responses:

LNG3

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC 04

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Douglas Quist Bamchaan Melissa Markell

WATER, COOL to 4 °C

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly.w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8/19/01	1002	01NE285W111	SW	8	X ✓					X ✓					MS/MSD

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Eileen Maus	Date 8-20-01	Shipped via: GO PRI AK Airlines	Shipping number: 2754 1146
Company: Montgomery Watson	Time 1000		
Received by: Peyton Quyle	Date 8/21/01	Relinquished by:	Date
Company: AKI	Time 2200	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 1.5°C °C

Custody seal #s: 17255, 17523

9 INEC04

COOLER RECEIPT FORM

Resources Incorporated

ARI Client: Montgomery Watson Project: Northeast Cape

Delivered by: ak Airlines Tracking No.: 027275411 46 Date: 8/21/01

ARI Project No. DN03 LIMS Nos.: 01-14379

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler?	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink,signed,etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted by: Susan Snyder Date: 8-21-01 Time: 2200

Log-In Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	1.5°C	degrees C
7.	What kind of packing material was used?	Bubble Wrap	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	(Yes)	No
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	(Yes)	No
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	Yes	No
15.	Were all VOA vials free of air bubbles?	(Yes)	No
16.	Was sufficient amount of sample sent in each bottle?	Yes	No
17.	Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened by: Deborah Swanson Date: 8/21/01 Time: 22:25

Explain any discrepancies or negative responses:

DNR3

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC20

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround Melissa Markell

Sampler's signature: Douglas Quist Bonnie Nelson

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly.w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
WATER, COOL to 4 °C															
8-19-01	1420	01NE-28SW115	SW	4	X					X					

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Gilen Mara	Date 8-20-01	Shipped via: GO PRI AK Airlines		Shipping number: 2754 1146	
Company: Montgomery Watson	Time 1000				
Received by: Brian Snyder	Date 8/21/01	Relinquished by:	Date	Temperature blank temperature upon arrival:	°C
Company: XRI	Time 2205	Company:	Time	0.5°C	
Received by:	Date	Relinquished by:	Date	Custody seal #s:	
Company:	Time	Company:	Time	17522, 17980	

Ø INEC20

COOLER RECEIPT FORM

Resources Incorporated

ARI Client: Montgomery Watson Project: Northeast Cape

Delivered by: ak airlines Tracking No.: Ø2725411 46 Date: 8/21/01

ARI Project No. DN03 LIMS Nos.: 01-14376

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler?	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink,signed,etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted by: Susan Snyder Date: 8-21-01 Time: 2205

Log-In Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	0.5	degrees C
7.	What kind of packing material was used?	Bubble Wrap	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	(Yes)	No
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	(Yes)	No
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	Yes	No
15.	Were all VOA vials free of air bubbles?	(Yes)	No
16.	Was sufficient amount of sample sent in each bottle?	Yes	No
17.	Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened by: [signature] Date: 8/21/01 Time: 22:25

Explain any discrepancies or negative responses:

DN03

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC_11

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Douglas Quist Bruce Melissa Markel

WATER, COOL to 4 °C

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly.w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8/18/01	1455	01NE28SW112	SW	4	X					X					
8/19/01	1415	01NE28SW114	SW	4	X					X					

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Eileen Maus	Date 8-20-01	Shipped via: GO PRI AK Airlines	Shipping number: 2754 1146
Company: Montgomery Watson	Time 1000		
Received by: Susan Snyder	Date 8/21/01	Relinquished by:	Date
Company: AKL	Time 9:50 pm	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: °C

Custody seal #s: 17987, 17295

Ø INEC11

COOLER RECEIPT FORM

Resources Incorporated

ARI Client: Montgomery Watson Project: Northeast Cape

Delivered by: ak Airlines Tracking No.: CQ72754 1146 Date: 8/21/01

ARI Project No. DN03 LIMS Nos.: 01-14380, 01-14381

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler?	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink,signed,etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted by: Jessie Snyder Date: 8/20/01 Time: 9:45

Log-in Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	1.5	degrees C
7.	What kind of packing material was used?	Bubble Wrap	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	(Yes)	No
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	(Yes)	No
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	Yes	No
15.	Were all VOA vials free of air bubbles?	(Yes)	No
16.	Was sufficient amount of sample sent in each bottle?	Yes	No
17.	Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened by: Deborah Adam Date: 8/21/01 Time: 22:25

Explain any discrepancies or negative responses:

DW03

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC_15

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Douglas Grant Buchanan Melissa Markell

WATER, COOL to 4 °C

Date 2001	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly w/HN03 7-4	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8-19	1330	C1NE07SW104	SW	7	X ✓				X ✓	X ✓	X ✓				

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Erika Mans	Date 8-20-01	Shipped via: GO PRT AK Airlines	Shipping number: 2754 1146
Company: Montgomery Watson	Time 1000		
Received by: Susan Snyder	Date 8/21/01	Relinquished by:	Date
Company: ARI	Time 2220	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 2.0 °C

Custody seal #s: 17576, 17571

ΦINEC15

COOLER RECEIPT FORM

Resources Incorporated

ARI Client: Montgomery Watson Project: Northeast Cape

Delivered by: ak Airlines Tracking No.: 02 72754 1146 Date: 8/21/01

ARI Project No. DN03 LIMS Nos.: 01-14382

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler?	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink,signed,etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted by: Susan Snyder Date: 8/21/01 Time: 2220

Log-in Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	2.0	degrees C
7.	What kind of packing material was used?	Bubble wrap	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	(Yes)	No
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	(Yes)	No
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	Yes	No
15.	Were all VOA vials free of air bubbles?	(Yes)	No
16.	Was sufficient amount of sample sent in each bottle?	Yes	No
17.	Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened by: [signature] Date: 8/21/01 Time: 22:25

Explain any discrepancies or negative responses:

DN03

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC_16

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

WATER, COOL to 4 °C

Sampler's signature: Douglas Quist Bruce Gleason Melissa Marshall

2001 Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly.w/HN03 T-9	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8-19	1330	01 NE07SW104	SW	6		X	X								
8-19	1500	01 NE07SW105	SW	13	X	X	X		X	X	X				
8-19	1500	01 NE00TB102	SW	3		X	X								

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Bruce Gleason	Date 8-20-01	Shipped via: GO PRI AK Airlines		Shipping number: 2754 1146	
Company: Montgomery Watson	Time 1000				
Received by: Susan Snyder	Date 8-21-01	Relinquished by:	Date	Temperature blank temperature upon arrival: 1.0	°C
Company: ARI	Time 2223	Company:	Time		
Received by:	Date	Relinquished by:	Date	Custody seal #s: 17911, 17399	
Company:	Time	Company:	Time		

COOLER RECEIPT FORM

Analytical Resources Incorporated

RI Client: Montgomery Watson Project: Northeast Cape

Delivered by: Alt Airlines Tracking No.: 027275411 46 Date: 8/21/01

ARI Project No. DNC3 LIMS Nos.:

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler?	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink,signed,etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted by: Susan Snyder Date: 8-21-01 Time: 0223

Log-in Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	1.0	degrees C
7.	What kind of packing material was used?	Bubble Wrap	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	(Yes)	No
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	(Yes)	No
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	Yes	No
15.	Were all VOA vials free of air bubbles?	(Yes)	No
16.	Was sufficient amount of sample sent in each bottle?	Yes	No
17.	Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened by: [illegible] Date: [illegible] Time: 22:25

Explain any discrepancies or negative responses:

Departure

SHIPPER'S NAME AND STREET ADDRESS | SHIPPER'S ACCOUNT NUMBER

MONTGOMERY WATSON
4100 SPENARD RD
ANCHORAGE AK 995
AUS

NOT NEGOTIABLE

AIR WAYBILL

(AIR CONSIGNMENT NOTE)

Air Cargo
Alaska Airlines
1-800-225-2752
P.O. BOX 68900
SEATTLE, WASHINGTON 98168 U.S.A.

CONSIGNEE'S NAME AND STREET ADDRESS | CONSIGNEE'S ACCOUNT NUMBER

If the carriage involves an ultimate destination or stop in a country other than the country of departure, the Warsaw Convention may be applicable and the Convention governs and in most cases limits the liability of carriers in respect of loss of or damage to cargo. The agreed stopping places (which may be altered by Carrier in case of necessity) are those places, except the place of departure and the place of destination, set forth on the face hereof or shown in Carriers' timetables as scheduled stopping places for the route. Address of first carrier is the airport of departure. SEE CONDITIONS ON REVERSE HEREOF.

Received in good condition at _____ (LOCATION) on _____ Date/Time

Please print your name _____

Signature _____

ISSUING CARRIER'S AGENT NAME AND CITY

ACCOUNTING INFORMATION (OPTIONAL - ALSO NOTIFY NAME AND ADDRESS)

AGENTS IATA CODE | ACCOUNT NO.

AIRPORT OF DEPARTURE (ADDR OF FIRST CARRIER) AND REQUESTED ROUTING

ROUTING AND DESTINATION

TO	BY FIRST CARRIER	TO	BY	TO	BY
ANC	-			SEA	AS

CURRENCY	CHGE CODE	WT / VAL PPD	WT / VAL COLL	OTHER PPD	OTHER COLL	DECLARED VALUE FOR CARRIAGE	DECLARED VALUE FOR CUSTOMS
	-A						NVD

AIRPORT OF DESTINATION | FLIGHT / DATE (for Carrier use only) | FLIGHT / DATE | AMOUNT OF INSURANCE

SEA | AS0153/20 | | -

HANDLING INFORMATION These commodities licensed by U.S. for ultimate destination. Diversion contrary to U.S. law is prohibited.

NO. of PIECES RCP	GROSS WEIGHT	kg lb	RATE CLASS / COMMODITY ITEM NO.	CHARGEABLE WEIGHT	RATE / CHARGE	TOTAL	NATURE AND QUANTITY OF GOODS (INCL. DIMENSIONS OR VOLUME)
							SAMPLES RET AND DOT

	PREPAID	WEIGHT CHARGE	COLLECT
A.			
D.	VALUATION CHARGE		
I.	TAX		
	TOTAL OTHER CHARGES DUE AGENT		
	TOTAL OTHER CHARGES DUE CARRIER		
	CURRENCY		
	TOTAL PREPAID	TOTAL COLLECT	
	CURRENCY CONVERSION RATES	TOTAL COLLECT IN DESTINATION CURRENCY	
	FOR CARRIERS USE ONLY AT DESTINATION (ALL COLLECT CHARGES IN DESTINATION CURRENCY)	CHARGES AT DESTINATION	

C.O.D.

P - UP ZONE	PICKUP CHARGES	ORIGIN ADVANCE CHARGES	DESCRIPTION OF ORIGIN ADVANCE	ITEMS PREPAID
B.		K.		
DEL. ZONE	DELIVERY CHARGES	DEST. ADVANCE CHARGES	DESCRIPTION OF DEST. ADVANCE	ITEMS COLLECT
C.		L.		

OTHER CHARGES AND DESCRIPTION

F.

TOTAL COLLECT CHARGES

OTHER CHARGES AND CHARGE CODES

AC - ANIMAL CONTAINER	CX - DESTINATION COLLECT CREDIT OR THIRD PARTY	PU - PICK UP
AS - ASSEMBLY SERVICE FEE	DA - DESTINATION ADVANCE	PX - PREPAID CREDIT
AT - ATTENDANT	DB - DISBURSEMENT FEE	RA - DANGEROUS GOODS SURCHARGE
AW - AIR WAYBILL FEE	DF - DISTRIBUTION SERVICE FEE	RF - REMIT FOLLOWING COLLECTION FEE
BL - BLACKLIST CERTIFICATE	DL - DELIVERY	SD - SURFACE CHARGE - DESTINATION
BR - BANK RELEASE	FC - COLLECT CHARGES FEE	SI - STOP IN TRANSIT
CA - PART PREPAID CASH, PART COLLECT CREDIT	GT - GOVERNMENT TAX	SO - STORAGE - ORIGIN
CB - PART PREPAID CREDIT, PART COLLECT CREDIT	HR - HUMAN REMAINS	SP - SEPARATE EARLY RELEASE
CC - ALL CHARGES COLLECT	IN - INSURANCE PREMIUM	SR - STORAGE - DESTIN/
CD - CLEARANCE AND HANDLING DESTINATION	LA - LIVE ANIMALS	SS - SIGNATURE SERVIC
CE - CONTAINER PURCHASE	MD - MISCELLANEOUS - DUE LAST CARRIER	ST - STATE SALES TAX
CF - C.O.D. FEE	PC - PART PREPAID CASH, PART COLLECT CASH	SU - SURFACE CHARGES
CG - ALL CHARGES COLLECT G.B.L.	PD - PART PREPAID CREDIT, PART COLLECT CASH	TR - TRANSIT
CH - CLEARANCE AND HANDLING ORIGIN	PG - PREPAID G.B.L. AND/OR G.T.R.	TX - TAXES
CP - DESTINATION COLLECT CASH	PK - PACKAGING	UH - ULD HANDLING
CT - CASKET AIRTRAY PURCHASE	PP - PREPAID CASH	VS - EXTRAORDINARY VALUE

PRINTED IN U.S.A. FORM AC-17-A-68 REV. 8/96

ORIGINAL FOR CONSIGNEE

Cooler# / COC#: Ø1NE 1

DK21

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Eileen Maus

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187

(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder

MW Job Number:
1850574.260120
NPDL # 01-065

Sampler's signature: Bonnie McLean

Date 2001	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO AK101 3 X 40- ml vial	BTEX SW 8260B 3 X 40-mL vials	Total Mn,Fe SW6020 1 X 1- L Poly w/ HNO3	Alkalinity, Sulfate, Chloride, pH EPA 310.1/EPA 300/EPA 150.1 2 X 1-L Poly	Sulfite EPA 300 1 X 1 L Poly w/ZnOAC	NO2/NO3 as Nitrogen EPA 353.1 1 X 1L Poly w/H2SO4	Dissolved Mn,Fe SW6020 1 X 125 ml Poly w/ HNO3	Nitrogen as Ammonia TKN,COD EPA 350 1 X 1L Poly w/H2SO4	COMMENTS
7-24	1100	ØINE35GW102	GW	15	X	X	X	X	X	X	X	X	X	~~MS/MSD~~ BOL
7-24	1100	ØINE35TB101	GW	3		X	X							

Dissolved Mn Required

Please record temperature blank only in the space provided.

Following receipt of sample cooler, please fax CoC and Lab cooler check-in form within 24 hours to Sandra Kimbrell at (907) 353-7070 and Eileen Maus At (907) 248-8884

Relinquished by: Bonnie McLean	Date 7/24/01	Shipped via: Ak. Air Goldstreak	1720 4445	Shipping number: 1720 4445	
Company: Montgomery Watson	Time 1400				
Received by:	Date 07/25/01	Relinquished by:	Date	Cooler temperature upon arrival: 2 °C	
Company: ARI	Time 15:30	Company:	Time		
Received by:	Date	Relinquished by:	Date	Custody seal #s: 17458 17208	
Company:	Time	Company:	Time		

000004

Copy - See Bx1

CoolerID/COC#: ØINECØ4

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Eileen Maus

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187

(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder

MW Job Number:
1850574.260120
NPDL # 01-065

Sampler's signature: William A. O'Connell Bonnie McLean

Date	Time	Sample ID	Matrix	Total Containers	WATER: DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO AK101 3 X 40- ml vial	BTEX SW 8260B 3 X 40-mL vials	Total Mn,Fe SW6020 1 X 1- L Poly w/ HNO3	Alkalinity, Sulfate, Chloride, EPA 310.1/EPA 300/EPA 150.1 2 X 1-L Poly	Sulfite EPA 300 1 X 1 L Poly w/ZnOAC	NO2/NO3 as Nitrogen EPA 353.1 1 X 1L Poly w/H2SO4	Dissolved Mn,Fe SW6020 1 X 1 Poly w/ HNO3 500 ml	Nitrogen as Ammonia TKN,COD EPA 350 1 X 1L Poly w/H2SO4	COMMENTS
7-25	1000	ØINE35GW101	GW	23	x	x	x	x	x	x	x	x	x	MS/MSD
7-25	1015	ØINE36GW201	GW	8	x	x	x							
7-25	1215	ØINE35TB102	GW	4		x	x							
7-25	1700	ØINE35GW103	GW	15	x	x	x	x	x	x	x	x	x	
7-26	0900	ØINE35GW104	GW	15	x	x	x	x	x	x	x	x	x	

LAST Sample for July 2001

Please record temperature blank only in the space provided.

Following receipt of sample cooler, please fax CoC and Lab cooler check-in form within 24 hours to Sandra Kimbrell at (907) 353-7070 and Eileen Maus At (907) 248-8884

Relinquished by: William A. O'Connell Bonnie McLean	Date 7/26/01	Shipped via: Ak. Airlines Goldstreak		Shipping number: 1720 4423	
Company: Montgomery Watson	Time 1500				
Received by: Susan Snyder	Date 7/27/01	Relinquished by:	Date	Cooler temperature upon arrival: 2.0	°C
Company: ARI	Time 12:00pm	Company:	Time		
Received by:	Date	Relinquished by:	Date	Custody seal #s:	
Company:	Time	Company:	Time	Bx1 17595 / 17593	
				Bx2 17817 / 17818	
				Bx3 17812 / 17811	
				Bx4 17014 / 17950	

000005

COOLER RECEIPT FORM

Analytical Resources Incorporated

ARI Client: Montgomery Watson Project: 1850574.260120

Delivered by: P/U from Goldsheet Tracking No.: 027-ANC-1720-4445 Date: 07/25/01

ARI Project No. DK21 LIMS Nos.: 01-12541-12543

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler? *Not on 1720	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink, signed, etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	OK	NA

Cooler Accepted by: [signature] Date: 07/25/01 Time: 15:30

Log-In Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	2 degrees C	
7.	What kind of packing material was used?	Bubble wrap, bw bags, plastic bags	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	Yes	(No) **X
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	(Yes)	No
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	(Yes)	No
15.	Were all VOA vials free of air bubbles? 3 VOAs/5 small P. Bubbles	Yes	(No)
16.	Was sufficient amount of sample sent in each bottle?	(Yes)	No
17.	Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened by: [signature] Date: 07/25/01 Time: 15:46

Explain any discrepancies or negative responses:

The trip blank VOAs (3) has less than 1mm air bubbles - ok per method Criteria & ARI SOP's.

**Samples were individually wrapped in Bubble Wrap/bags and plastic bags). SMS 7/26/01 @ 3pm

COOLER RECEIPT FORM

Analytical Resources Incorporated

ARI Client: Montgomery Watson Project: NECape (01NEC04) 2 of 1

Delivered by: Fed Ex Tracking No.: 1120 4423 Date: 7-27-01

ARI Project No. _____ LIMS Nos.: _____

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler?	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink, signed, etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted by: Susan Poynter Date: 7/27/01 Time: 2:15 pm

Log-In Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	2.0	degrees C
7.	What kind of packing material was used?	Bubble Wrap & bags	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	(Yes)	No
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	(Yes)	No
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	(Yes)	No
15.	Were all VOA vials free of air bubbles?	(Yes)	No
16.	Was sufficient amount of sample sent in each bottle?	(Yes)	No
17.	Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened by: Susan Poynter Date: 7-27-01 Time: 1430

Explain any discrepancies or negative responses:

COOLER RECEIPT FORM

Analytical Resources Incorporated

4 of 4

RI Client: Montgomery Watson Project: NECape

Delivered by: Goldstreak Tracking No.: 1720423 Date: 7-27-01

ARI Project No. _____ LIMS Nos.: _____

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler?	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink, signed, etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted by: Susan Snyder Date: 7-27-01 Time: 1430

Log-in Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	1.0	degrees C
7.	What kind of packing material was used?	Bubble wrap/bags	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	(Yes)	No
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	(Yes)	No
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	(Yes)	No
15.	Were all VOA vials free of air bubbles? N/A	Yes	No
16.	Was sufficient amount of sample sent in each bottle?	(Yes)	No
17.	Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened by: Susan Snyder Date: 7-27-01 Time: 1435

Explain any discrepancies or negative responses:

COOLER RECEIPT FORM

Analytical Resources Incorporated

ARI Client: Montgomery Watson Project: NE Cape 2of 4 (ØINECØ4)

Delivered by: AK Goldstreak Tracking No.: 1720 4423 Date: 7-27-01

ARI Project No. _____ LIMS Nos.: _____

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler?	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink,signed,etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted by: Susan Snyder Date: 7-27-01 Time: 2:15 pm

Log-in Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	2.0	degrees C
7.	What kind of packing material was used?	Bubble wrap/bags	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	(Yes)	No
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	(Yes)	No
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	Yes	No
15.	Were all VOA vials free of air bubbles? N/A	Yes	No
16.	Was sufficient amount of sample sent in each bottle?	(Yes)	No
17.	Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened by: Susan Snyder Date: 7-27-01 Time: 2:15 pm

Explain any discrepancies or negative responses:

COOLER RECEIPT FORM

Analytical Resources Incorporated

ARI Client: Montgomery Watson Project: NE Cape 01NEC04 1 of 4

Delivered by: Ak Goldstreak Tracking No.: 1720423 Date: 7-27-01

ARI Project No. _____ LIMS Nos.: _____

Preliminary Examination Phase

1.	Were intact, properly signed and dated custody seals attached to the outside of cooler?	(Yes)	No
2.	Were custody papers included with the cooler?	(Yes)	No
3.	Were custody papers properly filled out (ink,signed,etc.)?	(Yes)	No
4.	Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted by: Susan Hyde Date: 7-27-01 Time: 1350

Log-in Phase

5.	Was a temperature blank included in the cooler?	(Yes)	No
6.	Record Cooler Temperature	4.5	degrees C
7.	What kind of packing material was used?	Bubble Wrap, bags	
8.	Was sufficient ice used (if appropriate)?	(Yes)	No
9.	Were all bottles sealed in seperate plastic bags?	(Yes)	No
10.	Did all bottles arrive in good condition (unbroken)?	(Yes)	No
11.	Were all bottle labels complete and legible?	(Yes)	No
12.	Did all bottle labels and tags agree with custody papers?	(Yes)	No
13.	Were all bottles used correct for the requested analyses?	(Yes)	No
14.	Do any of the analyses (bottles) require preservative? (If so, Preservation Verification checklist must be attached.)	(Yes)	No
15.	Were all VOA vials free of air bubbles? N/A	Yes	No
16.	Was sufficient amount of sample sent in each bottle?	(Yes)	No
17.	Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened by: Susan Hyde Date: 7-27-0 Time: 14:05

Explain any discrepancies or negative responses:

DN73

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC 55 ✓

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Jane Whitsett Matthew A. Sewell Douglas Quist Melissa Workman

WATER, COOL to 4 °C

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly.w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8-24-01	2110	01NE31SW101	SW	4	X ✓				X ✓						
8-24-01	2245	01NE31SW102	SW	4	X ✓				X ✓						

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Johanna L. Dreher Johanna L. Dreher Company: Montgomery Watson	Date 08-26-01 Time 1600	Shipped via: Goldstreak	Shipping number: 4218 3820
Received by: Jeesun Kim Company: ARI	Date 8/28-01 Time 1100	Relinquished by: Company:	Date Time	Temperature blank temperature upon arrival: 4.5 °C
Received by: Company:	Date Time	Relinquished by: Company:	Date Time	Custody seal #s: 19, 20

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: NorthEast Corr

COC NO.: 55 Delivered By: ~~Fed-X~~ Coldstream

Tracking NO.: 027 4218 3820 Date: 8/28/01

ARI Job No.: DLV73 Lims NO.: 01-15112 - 01-15126

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: Deborah Shannon Date: 8/28/01 Time: 11:00

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 4.5 °C
7. What kind of packing material was used? ..... Bubble Wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... (YES) NO
15. Were all VOA vials free of air bubbles? ..... (YES) NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: Deborah Shannon Date: 8/28/01 Time 11:00

Explain any discrepancies or negative responses:

DN73

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC 01

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: William A. Small Doug Quant Melissa Markle

WATER, COOL to 4 °C

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	DRO AK102 GRO/BTEX AK101/SW8021B 3 X 40 ml vial w/HCL 2 1L Amber Glass w/ HCl	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/7421/7471 1x1 L Poly.w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
08-25-01	1700	01NE03WP103	W	5	X					X	X				
08-25-01	1200	01NE04WP102	W	2		X									
08-25-01	1345	01NE04WP103	W	2		X								←	One Label Reads 01NEWP104

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Johanna L. Dreher	Date 08-26-01	Shipped via: Goldstreak	Shipping number: 4218 3945
Company: Montgomery Watson	Time 1600		
Received by: S Joshi	Date 8/28/01	Relinquished by:	Date
Company: ARI	Time 1310	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 4.0 °C

Custody seal #s: 31, 32

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: 01NEC61 Delivered By: Fed Ex/Goldstreak

Tracking NO.: 027421839 45 Date: 8/28/01

ARI Job No.: DN73 Lims NO.: 01-15112-01-15126

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... YES NO
2. Were custody papers included with the cooler ..... YES NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... YES NO
4. Complete custody forms and attach all shipping documents ..... OK NA

Cooler Accepted BY: Deborah Johnson Date: 8/28/01 Time: 11:00

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... YES NO
6. Record Cooler Temperature ..... 4.0 °C
7. What kind of packing material was used? ..... Bubble Wrap
8. Was sufficient ice used (if appropriate)? ..... YES NO
9. Were all bottles sealed in separate plastic bags? ..... YES NO
10. Did all bottles arrive in good condition (unbroken)? ..... YES NO
11. Were all bottle labels complete and legible? ..... YES NO
12. Did all bottle labels and tags agree with custody papers? ..... YES NO
13. Were all bottles used correct for the requested analyses? ..... YES NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... YES NO
15. Were all VOA vials free of air bubbles? ..... YES NO
16. Was sufficient amount of sample sent in each bottle? ..... YES NO
17. Notify Project Manager of any discrepancies or concerns ..... OK NA

Cooler Opened By: Deborah Johnson Date: 8/28/01 Time 11:00

Explain any discrepancies or negative responses:

Sample ID 01NE04WP103 - Bottle Lable read 01NE WP104, Time Matches

DN73

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC51

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Douglas Quist, Melissa Markel

WATER, COOL to 4 °C

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/~~BTEX~~ AK101/~~SW8260B~~ 3 X 40- ml vial w/HCL	GRO/BTEX AK101/SW8260B VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	TAL Metals ~~SW6010B/7060A/7131A/7191/7421/7471~~ 1x1 L Poly.w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
08-24-01	1440	01NE21SW113	SW	4		X					X				MS/MSD GRO only
08-24-01	0835	01NG24SW214	SW	1							X				
08-24-01	0830	01NE24SW114	SW	4		X	X				X				
08-21-01	1405	01NE21SW114	SW	7	X	X				X					
08-24-01	1445	01NE21SW213	SW	3		X									
08-24-00	1900	01NE00TB113	SW	3		X									

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Johanna L. Dreher	Date 08-26-01	Shipped via: Goldstreak	Shipping number: 4218 3816
Company: Montgomery Watson	Time 1600		
Received by:	Date 9/28/01	Relinquished by:	Date
Company: ARI	Time 11:00	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 4.5 °C

Custody seal #s: 11, 12

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cargo

COC NO.: 51 Delivered By: Fed-X Goldstreak

Tracking NO.: 027 4218 3816 Date: 8/28/01

ARI Job No.: DN73 Lims NO.: 01-15112 - 01-15126

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: Deborah Kinman Date: 8/28/01 Time: 11:00

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 4.5 °C
7. What kind of packing material was used? ..... Bubble Wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... (YES) NO
15. Were all VOA vials free of air bubbles? ..... (YES) NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: Deborah Kinman Date: 8/28/01 Time 11:00

Explain any discrepancies or negative responses:

DN73

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC_62

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Willard A. Tomell Douglas Quist Melissa Markell

WATER, COOL to 4 °C

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly.w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8-25-01	1600	ØINE38WP1Ø1	W	16	X	X	X		X		X	X	X	X	
8-25-01	1720	ØINE Ø9SW 11Ø	SW	6		X	X								
8-25-01	1700	ØINE Ø6WP103	W	3		X									
8-24-01	2110	ØINE 31SW101	SW	3		X									
8-24-01	2245	ØINE31SW102	SW	3		X									
8-25-01	1500	ØINE Ø4WP1Ø4	W	2	X										DRO ONLY
8-24-01	1900	ØINEØØTB115	W	3		X	X								

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Johanna L. Drecher	Date 08-24-01	Shipped via: Goldstreak	Shipping number: 4218 3956
Company: Montgomery Watson	Time 1600		
Received by:	Date 8/28/01	Relinquished by:	Date
Company:	Time 1100	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 6.0 °C

Custody seal #s: 33, 34

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: Northeast Cape

COC NO.: 62 Delivered By: ~~Fed Ex~~ Goldstreak

Tracking NO.: 027421839 56 Date: 8/28/01

ARI Job No.: DN73 Lims NO.: 01-15112 - 01-15126

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: Richard Johnson Date: 8/28/01 Time: 11:00

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 6.0 °C
7. What kind of packing material was used? ..... Bubble Wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... (YES) NO
15. Were all VOA vials free of air bubbles? ..... (YES) NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: Richard Johnson Date: 8/28/01 Time 11:00

Explain any discrepancies or negative responses:

1.5

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC 63

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory: DN71
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Douglas Quist, Melissa Merkel

WATER, COOL to 4 °C

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8-26-01	0900	ØINEØ9WP102	W	~~2~~ 7	X V				X V	X V	X V				
8-26-01	1100	ØINEØ6SW116	W	2	X V										DRO ONLY

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: BMcKee	Date 8-27-01	Shipped via: AK Air Gold Sheen		Shipping number: 4218 3982	
Company: Montgomery Watson	Time 1000				
Received by: EJOSW	Date 8/28/01	Relinquished by:	Date	Temperature blank temperature upon arrival: 1.5°	°C
Company: ARI	Time 1125	Company:	Time		
Received by:	Date	Relinquished by:	Date	Custody seal #s: 17537 / 17538	
Company:	Time	Company:	Time		

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: NE CAPE

COC NO.: CINEC63 Delivered By: AK airlines

Tracking NO.: 0274218 3982 Date: 8-27-01

ARI Job No.: DN71 Lims NO.: 01-15092 to 01-15111

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: cx Date: 8/28/01 Time: 1125

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 1.5 °C
7. What kind of packing material was used? ..... Bubble wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... (YES) NO
15. Were all VOA vials free of air bubbles? ..... YES (NA) NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: cx Date: 8/28/01 Time 1600

Explain any discrepancies or negative responses:

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC57 ✓

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround
DN71

Sampler's signature: Johanna Mahan William J. Lemly Douglas Quist Melissa Markell

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	~~TAL Metals SW6010B/7060A/7131A/7191/7421/7471~~ 7420 1x1 L Poly.w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8-25-01	1015	01NE03 WP 102	WP	2	X ✓										
8-25-01	1045	01NE03 WP 103	WP	2	X ✓										
8-25-01	1115	01NE03 WP 104	WP	2	X ✓										
8-24-01	2110	01NE31SW101	SW	1							X ✓				
8-24-01	2245	01NE31SW102	SW	1							X ✓				

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Johanna L. Drozhe Johanna L. Drozhe	Date 08-26-01	Shipped via: Goldstreak	Shipping number: 4218 3901
Company: Montgomery Watson	Time 1600		
Received by: GJoshi	Date 8/28/01	Relinquished by:	Date
Company: ARI	Time 1310	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 3.5° °C

Custody seal #s: 23, 24

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: NE CAPE

COC NO.: 01NE57 Delivered By: AK airlines

Tracking NO.: 027 4218 3901 Date: 8-27-01

ARI Job No.: DN71 Lims NO.: 01-15092 to 01-15111

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler?	(YES)	NO
2. Were custody papers included with the cooler	(YES)	NO
3. Were custody papers properly filled out (ink, signed etc.)?	(YES)	NO
4. Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted BY: ay Date: 8/28/01 Time: 1310

Log-IN Phase:

5. Was a temperature blank include in the cooler?	(YES)	NO
6. Record Cooler Temperature	3.5 °C	
7. What kind of packing material was used?	Bubble wrap	
8. Was sufficient ice used (if appropriate)?	(YES)	NO
9. Were all bottles sealed in separate plastic bags?	(YES)	NO
10. Did all bottles arrive in good condition (unbroken)?	(YES)	NO
11. Were all bottle labels complete and legible?	(YES)	NO
12. Did all bottle labels and tags agree with custody papers?	(YES)	NO
13. Were all bottles used correct for the requested analyses?	(YES)	NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached)	(YES)	NO
15. Were all VOA vials free of air bubbles?	YES (NA)	NO
16. Was sufficient amount of sample sent in each bottle?	(YES)	NO
17. Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened By: ay Date 8/28/01 Time 1310

Explain any discrepancies or negative responses:

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

01NEC66

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory: DN71
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature:

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/~~BTEX~~ AK101/~~SW8260B~~ 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8-26	1315	01NE09SW112	W	13	X	X	X		X	X	X				
8-26	900	01NE09WP102	W	6		X	X								
8-26	1015	01NE09MW103	W	6		X	X								Bubbles in Sample
8-26	1900	01NE00TB116	W	6		X	X								Bubbles in Sample
8-26	1115	01NE09SW111	W	6		X	X								

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Company: Montgomery Watson	Date 8-27-01 Time 1000	Shipped via: AK AL Gold Shoe	Shipping number: 42183960
Received by: Company: ARI	Date 8/28/01 Time 1125	Relinquished by: Company:	Date Time	Temperature blank temperature upon arrival: 1.5° °C
Received by: Company:	Date Time	Relinquished by: Company:	Date Time	Custody seal #s: 17895 / 17889

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: NE CAPE

COC NO.: 01NEC66 Delivered By: AK airlines

Tracking NO.: 027421839 60 Date: 8-27-01

ARI Job No.: DN71 Lims NO.: 01-15092 to 01-15111

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler?	(YES)	NO
2. Were custody papers included with the cooler	(YES)	NO
3. Were custody papers properly filled out (ink, signed etc.)?	(YES)	NO
4. Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted BY: CM Date: 8/28/01 Time: 1125

Log-IN Phase:

5. Was a temperature blank include in the cooler?	(YES)	NO
6. Record Cooler Temperature	1.5 °C	
7. What kind of packing material was used?	Bubble wrap	
8. Was sufficient ice used (if appropriate)?	(YES)	NO
9. Were all bottles sealed in separate plastic bags?	(YES)	NO
10. Did all bottles arrive in good condition (unbroken)?	(YES)	NO
11. Were all bottle labels complete and legible?	(YES)	NO
12. Did all bottle labels and tags agree with custody papers?	(YES)	NO
13. Were all bottles used correct for the requested analyses?	(YES)	NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached)	(YES)	NO
15. Were all VOA vials free of air bubbles?	YES	(NO)*
16. Was sufficient amount of sample sent in each bottle?	(YES)	NO
17. Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler ~~Opened~~ logged By: CM Date: 8/28/01 Time 1600

Explain any discrepancies or negative responses:

* 01NE09MW103 & 01NE00TB116 All 3 vials have 6-8 mm pea bubbles. CM

25

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC_64

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

DN71

Sampler's signature: Douglas Quist, Melissa Markell

WATER, COOL to 4 °C

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly.w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8-26-01	1115	ØINEØ9SW111	SW	617 (39M)	X✓				X✓	X✓	X✓				

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Jane Whitsett	Date 8-27-01	Shipped via: Gold Streak	Shipping number: 4218 3993
Company: Montgomery Watson	Time 1002		
Received by: SJOSM	Date 8/28/01	Relinquished by:	Date
Company: ARI	Time 1125	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 2.5° °C

Custody seal #s: 17562 / 17561

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: NE CAPE

COC NO.: 01NEC64 Delivered By: AK airlines

Tracking NO.: 027 4218 3993 Date: 8-27-01

ARI Job No.: DN71 Lims NO.: 01-15092 to 01-15111

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: [signature] Date: 8/28/01 Time: 1125

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 2.5 °C
7. What kind of packing material was used? ..... Bubble Wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... (YES) NO
15. Were all VOA vials free of air bubbles? ..... YES (N/A) NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: [signature] Date: 8/28/01 Time 1600

Explain any discrepancies or negative responses:

1.5

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC 65

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

DN71

Sampler's signature: Douglas Dust Melissa Markell

Date	Time	Sample ID	Matrix	Total Containers	WATER, COOL to 4 °C: DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly.w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8-26-01	1015	Ø1NE09MW103	W	7	X				X	X	X				

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by:	Date 8-27-01	Shipped via: AKAL		Shipping number: 4218 4004	
Company: Montgomery Watson	Time 1000	Old Steam			
Received by:	Date 8/28/01	Relinquished by	Date	Temperature blank temperature upon arrival: 1.5°	°C
Company: AR	Time 1125	Company:	Time		
Received by:	Date	Relinquished by:	Date	Custody seal #s: 17542/17541	
Company:	Time	Company:	Time		

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: NE CAPE

COC NO.: ONEC 65 Delivered By: AK airlines

Tracking NO.: 027 4218 4004 Date: 8-27-01

ARI Job No.: DN71 Lims NO.: 01-15092 to 01-15111

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler?	(YES)	NO
2. Were custody papers included with the cooler	(YES)	NO
3. Were custody papers properly filled out (ink, signed etc.)?	(YES)	NO
4. Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted BY: [signature] Date: 8/28/01 Time: 1125

Log-IN Phase:

5. Was a temperature blank include in the cooler?	(YES)	NO
6. Record Cooler Temperature	1.5 °C	
7. What kind of packing material was used?	Bubble wrap	
8. Was sufficient ice used (if appropriate)?	(YES)	NO
9. Were all bottles sealed in separate plastic bags?	(YES)	NO
10. Did all bottles arrive in good condition (unbroken)?	(YES)	NO
11. Were all bottle labels complete and legible?	(YES)	NO
12. Did all bottle labels and tags agree with custody papers?	(YES)	NO
13. Were all bottles used correct for the requested analyses?	(YES)	NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached)	(YES NA*)	NO
15. Were all VOA vials free of air bubbles?	YES (NA)	NO
16. Was sufficient amount of sample sent in each bottle?	(YES)	NO
17. Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened By: [signature] Date: 8/28/01 Time 1125

Explain any discrepancies or negative responses:

6.5

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC 48 ✓

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround
DN71

Sampler's signature: Wallace A. Donell Jane Pust Jane Whitsett Melissa Markell

Date	Time	Sample ID	Matrix	Total Containers	WATER, COOL to 4 °C: DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	Metals SW6010B/7060A/7131A/7191/ 7421/7471 1x1 L Poly.w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8/24/01	0830	01NE245SW114	SW	4	X ✓					X ✓					X ~~SPCB~~ Ref SZ
8/24/01	0835	01NE245SW214	SW	4	X ✓					X ✓					

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Johanna L. Drecher Johanna L. Drecher	Date 08-26-01	Shipped via:		Shipping number: 4218 3886	
Company: Montgomery Watson	Time 1600	Goldstreak			
Received by: Joshi	Date 8/28/01	Relinquished by:	Date	Temperature blank temperature upon arrival: 6.5°	°C
Company: ARI	Time 1310	Company:	Time		
Received by:	Date	Relinquished by:	Date	Custody seal #s: 5, 6	
Company:	Time	Company:	Time		

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: NE CAPE

COC NO.: 01NEC48 Delivered By: AK airlines

Tracking NO.: 027421838 86 Date: 8-27-01

ARI Job No.: DN71 Lims NO.: 01-15092 to 01-15111

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler?	(YES)	NO
2. Were custody papers included with the cooler	(YES)	NO
3. Were custody papers properly filled out (ink, signed etc.)?	(YES)	NO
4. Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted BY: CY Date: 8/28/01 Time: 1310

Log-IN Phase:

5. Was a temperature blank include in the cooler?	(YES)	NO
6. Record Cooler Temperature	6.5 °C	
7. What kind of packing material was used?	Bubble wrap	
8. Was sufficient ice used (if appropriate)?	(YES)	(NO) 8/30/01
9. Were all bottles sealed in separate plastic bags?	(YES)	NO
10. Did all bottles arrive in good condition (unbroken)?	(YES)	NO
11. Were all bottle labels complete and legible?	(YES)	NO
12. Did all bottle labels and tags agree with custody papers?	YES	(NO) *
13. Were all bottles used correct for the requested analyses?	(YES)	NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached)	(YES)	NO
15. Were all VOA vials free of air bubbles?	YES N A	NO
16. Was sufficient amount of sample sent in each bottle?	(YES)	NO
17. Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened By: CY Date: 8/28/01 Time 1600

Explain any discrepancies or negative responses:

* FOR SAMPLE 01NE24SW114 - ONE PCB BOTTLE LABEL = 01NE24SD114 - TIME = 830
FOR SAMPLE 01NE24SW214 - TWO " " LABELS = 01NE24SD214 - TIME = 835
NOTIFIED P.M. 8/28/01

4.5

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC50 ✓

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround
DN71

Sampler's signature: Douglas Quist Melissa Markell

Date	Time	Sample ID	Matrix	Total Containers	WATER, COOL to 4 °C: DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	TAL Metals SW6010B/~~7060A/7131A/7191/ 7421/7471~~ 1x1 L Poly w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
8-24-01	1440	Ø1NE21SW113	SW	6	X ✓					X ✓					MS/MSD DRO only
8-24-01	1445	Ø1NE21SW213	SW	2	X ✓										
8-24-01	1405	Ø1NE21SW114	SW	1							X ✓				

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Johanna L. Drecher Johanna L. Drecher	Date 08-26-01	Shipped via: Goldstreak	Shipping number: 4218 3853
Company: Montgomery Watson	Time 1600		
Received by: [illegible]	Date 8/28/01	Relinquished by:	Date
Company: ARI	Time 1310	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 4.5° °C

Custody seal #s: 9, 10

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: NE CAPE

COC NO.: 01NEC50 Delivered By: AK airlines

Tracking NO.: 027421853853 Date: 8-27-01

ARI Job No.: DN71 Lims NO. 01-15092 to 01-15111

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: CX Date: 8/28/01 Time: 1310

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 4.5 °C
7. What kind of packing material was used? ..... Bubble wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... (YES) NO
15. Were all VOA vials free of air bubbles? ..... YES (NA) NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: CX Date: 8/28/01 Time 1310

Explain any discrepancies or negative responses:

3.0

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: ✓
Ø1NEC 60

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

DN71

Sampler's signature: William A Connell Douglas Quist Melissa Markell

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 2 X 1L Amber Glass w/HCL	GRO/BTEX AK101/SW8260B 3 X 40- ml vial w/HCL	VOCs SW8260B 3 X 40- ml vial w/HCL	SVOCs SW8270C 2 X 1L Amber Glass	PAHs SW8270C SIM 2 X 1L Amber Glass	PCBs SW8082 2 X 1L Amber Glass	~~7420~~ 7AL ~~7431/7471A/7191/~~ Metals SW6010B/~~7060A~~ ~~7431/7471~~ 1x1 L Poly.w/HN03	Alkalinity EPA 310.1 1 x 1 L Poly	Sulfate EPA 300 1 x 1 L Poly	Methane, Ethane, Ethene RSK 175 3 x 40 ml glass vials w/ HCL	COMMENTS
WATER, COOL to 4 °C															
8-25-01	1752	01NE09SW110	SW	7	X ✓				X ✓	X ✓	X ✓				

Please record Temperature Blank only in the space provided

Following receipt of sample, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett At (907) 248-8884

Relinquished by: Johanna L. Dreher	Date 08-26-01	Shipped via: Goldstreak	Shipping number: 4218 3934
Company: Montgomery Watson	Time 1600		
Received by: EJOSHI	Date 8/28/01	Relinquished by:	Date
Company: ARI	Time 1125	Company:	Time
Temperature blank temperature upon arrival: 3.0° °C			
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time
Custody seal #s: 29, 30			

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: NE CAPE

COC NO.: 01NEC60 Delivered By: AK airlines

Tracking NO.: 027 4218 3934 Date: 8-27-01

ARI Job No.: DN71 Lims NO.: 01-15092 to 01-15111

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler?	(YES)	NO
2. Were custody papers included with the cooler	(YES)	NO
3. Were custody papers properly filled out (ink, signed etc.)?	(YES)	NO
4. Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted BY: SK Date: 8/28/01 Time: 1125

Log-IN Phase:

5. Was a temperature blank include in the cooler?	(YES)	NO
6. Record Cooler Temperature	3.0 °C	
7. What kind of packing material was used?	Bubble wrap	
8. Was sufficient ice used (if appropriate)?	(YES)	NO
9. Were all bottles sealed in separate plastic bags?	(YES)	NO
10. Did all bottles arrive in good condition (unbroken)?	(YES)	NO
11. Were all bottle labels complete and legible?	(YES)	NO
12. Did all bottle labels and tags agree with custody papers?	(YES)	NO
13. Were all bottles used correct for the requested analyses?	(YES)	NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached)	(YES)	NO
15. Were all VOA vials free of air bubbles?	YES (NA)	NO
16. Was sufficient amount of sample sent in each bottle?	(YES)	NO
17. Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler Opened By: SK Date: 8/28/01 Time 1125

Explain any discrepancies or negative responses:

New Job # DY58

ANALYTICAL RESOURCES INCORPORATED

Client: Montgomery Watson Harza	
Project NO.: Northeast Cape	

Change Order

ARI Job No.: DN68	
VTSR:	

Change made by: Eileen Mars	
Taken by: Sue Snyder	

Change Order Date: 12/17/01

Please Make the Following Changes:

Analyze the following samples for arsenic by ~~GFAA~~ ICP-MS

01-15015-A (01NE21SS169) DN68-A8, B6, F7

01-15016-B (01NE21SS269)

01-15020-F (01NE09SD114)

15015-20

Change Order Acknowledged

Project Coordinator: Sue Snyder	
Extractions:	
Volatiles:	
GC/MS Lab:	
GC Lab:	
Metals:	
Conventionals:	
Data Section:	

New Job # DY59

ANALYTIC RESOUR INCORPORATED

Client: Montgomery Watson Harza
Project NO.: Northeast Cape

Change Order

ARI Job No.: DN69
VTSR:

Change made by: Eileen Maus
Taken by: Sue Snyder

Change Order Date: 12/17/01

Please Make the Following Changes:

Please analyze the following sample for arsenic by ~~GFAAS~~ ICP-MS.

Change Order Acknowledged

Project Coordinator: Susan Snyder
Extractions:
Volatiles:
GC/MS Lab:
GC Lab:
Metals:
Conventionals:
Data Section:

01-15058-A (01NE21SB169)
01-15059-B (01NE21SB170)
01-15060-C (01NE21SS170)
01-15061-D (01NE21SB171)
01-15062-E (01NE21SS171)
01-15063-F (01NE21SS172)
01-15064-G (01NE21SS173)
01-15065-H (01NE21SD113)
01-15066-I (01NE21SD114)

m-26

000005

New Job # DN47

ANALYTICAL RESOURCES INCORPORATED

Client: Montgomery Watson	
Project NO.: Northeast Cape	

Change Order

ARI Job No.: DN07	
VTSR: 9/15/01	

Change made by: Eileen Maus	
Taken by: Sue Snyder	

Change Order Date: 12/17/01

Please Make the Following Changes:

Run As by ~~GC/MS~~ ICP-MS for: 5 samples

01-14459 - K (01NE06SD116) - 20u

01-14460 - L (01NE06SD117) - 6u

~~01-14462 - N (01NE07SS135)~~

01-14463 - O (01NE07SS126) - 30u

~~01-14464 - P (01NE07SS137)~~

01-14465 - Q (01NE07SD105) - 20u

01-14466 - R (01NE07SD104) - 20u

Change Order Acknowledged

Project Coordinator:	Sue Snyder
Extractions:	N/A
Volatiles:	
GC/MS Lab:	
GC Lab:	↓
Metals:	
Conventionals:	
Data Section:	↓

900006

Susan Snyder

From: <Eileen.M.Maus@us.mwhglobal.com>
To: "Susan Snyder" <susan@arilabs.com>
Sent: Monday, December 31, 2001 4:14 PM
Subject: NEC and As WO# DY36, 38, 39, 41, 42

Hello Sue,

Hope this finds you well. Thank you for taking care of the As issue.

The sample summary looks good - all As ND above 2 accounted for. : -)

Thank you,
Eileen

New Job # DY56

ANALYTICAL RESOURCES INCORPORATED

Client: Montgomery Watson Harza
Project NO.: Northeast Cape

Change Order

ARI Job No.: DN 76
VTSR:

DN76
15139-43

Change made by: Eileen Mares
Taken by: Sue Snyder

Change Order Date: 12/17/01

Change Order Acknowledged

Project Coordinator: Susan Snyder
Extractions:
Volatiles:
GC/MS Lab:
GC Lab:
Metals:
Conventionals:
Data Section:

Please Make the Following Changes:

analyze the samples listed below for arsenic by ~~GFAAS~~. ICP-MS

01-15142-D (01NE09SD107)
01-15143-E (01NE09SD108)
01-15187-F (01NE30SS101)
01-15188-G (01NE30SD101)
01-15189-H (01NE30SS103)
01-15190-I (01NE30SS102)
01-15191-J (01NE09SD109)
01-15192-K (01NE09SD213)
01-15193-L (01NE24SD114)
01-15194-M (01NE24SD115)

DN76
15142-91

Analytical Resources, Inc.

Revision 1 (6/89)

01-15196-O (01NE30SS201)
01-15197-P (01NE09SD113)

M-47

000005

New Job # DY41

ANALYTICAL RESOURCES INCORPORATED

Client: Montgomery Watson	
Project NO.: Northeast Cape	

Change Order

ARI Job No.: DN 40	
VTSR:	

Change made by: Eileen Maus	
Taken by: Sue Snyder	

Change Order Date: 12/17/01

Please Make the Following Changes:

The following samples need to be analyzed by GFAAS for Arsenic

01-14754-E (01NE2950128)
01-14755-F (01NE2950129)
01-14762-M (01NE2950127)
01-14763-N (01NE2950126)

Change Order Acknowledged

Project Coordinator: Sue Snyder	
Extractions:	
Volatiles:	
GC/MS Lab:	
GC Lab:	
Metals:	
Conventionals:	
Data Section:	

M-24

Archive Box 2838

900006

Northeast Cape, St. Lawrence Island Alaska: 2001 Chain of Custody

DN76

CoolerID/COC#: ✓
Ø1NEC44

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
~~Sound Analytical Services~~ Analytical Resources Inc.
~~4813 Pacific Hwy. East~~ 333 Ninth Avenue North
~~Tacoma, WA. 98424~~ Seattle, WA 98109-5187
~~(253) 922-2310~~ (206) 389-6166
Fax ~~(253) 922-5047~~ FAX (206) 621-7523
Attn: ~~Dawn Werner~~ Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Douglas Quist, Melissa Markell

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 1 x 4oz. amber glass jar	GRO/BTEX AK 101/SW8021 B 1 x 4oz. glass jar w/ MeOH	VOCs (high level) SW8260B 1 x 4oz. glass jar w/ MeOH	VOCs (low level) SW8260B 2 x 40ml. glass vials w/NaSO4	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	TAL Metals SW6010B/7000 1 x 4oz. amber glass jar	~~TOC lab method~~ Pb SW 7421 1 x 4oz. amber glass jar	COMMENTS
8-23-01	1355	Ø1NE16SS165	SS	3						X✓		X✓	MS/MSD Pb only
8-23-01	1400	Ø1NE16SS265	SS	1								X✓	
8-23-01	1415	Ø1NE16SS166	SS	2						X✓		X✓	
8-23-01	~~1540~~ Tetlin	Ø1NE09SD107	SD	4	X✓				X✓	X✓	X✓		
8-23-01	1610	Ø1NE09SD108	SD	4	X✓				X✓	X✓	X✓		
8-23-01	1500	Ø1NE31SS105	SS	1	X								
8-23-01	1503	Ø1NE31SS205	SS	1	X								
8-23-01	1505	Ø1NE31SS106	SS	1	X								
8-23-01	1510	Ø1NE31SS107	SS	1	X								
8-23-01	1515	Ø1NE31SS108	SS	1	X								
8-23-01	1520	Ø1NE31SS109	SS	1	X								
8-23-01	1525	Ø1NE31SS110	SS	1	X								
8-23-01	1530	Ø1NE31SS111	SS	1	X								
8-23-01	1535	Ø1NE31SS112	SS	1	X								
8-23-01	1540	Ø1NE31SS113	SS	1	X								
8-23-01	1545	Ø1NE31SS114	SS	1	X								

SOIL, Cool to 4°C

Please record temperature blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Johanna E. Dreher / Johanna L. Dreher	Date 08-26-01	Shipped via: Goldstreak	Shipping number: 4218 3875
Company: Montgomery Watson	Time 1600		
Received by: Joshi	Date 8/28/01	Relinquished by:	Date
Company: ARI	Time 1310	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival 5.8 °C °C
TB on TOP of ice; Samples (IR) @ 5°C
Custody seal #s: 1, 2

Northeast Cape, St. Lawrence Isla Alaska. 2001 Chain of Custody

DN76

CoolerI OC#: ✓
Ø1NEC56

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Johanna L. Dreher Melissa Marshall

Date	Time	Sample ID	Matrix	Total Containers	SOIL, Cool to 4°C: DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	TBE SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	TAL Metals SW6010B/7000 1 x 4oz. amber glass jar	Pesticides SW 8081 TOC lab methods 1 x 4oz. amber glass jar	COMMENTS
8-24-01	1725	01NE30SS101	SS	3	X ✓				X ✓		X ✓		
8-24-01	2020	01NE32SS105	SS	3	X ✓					X ✓		X ✓	
8-24-01	1730	01NE30SS201	SS	1							X ✓		
8-24-01	1705	01NE09SD109	SD	4	X ✓				X ✓	X ✓	X ✓		
8-24-01	1040	01NE20SD101	SD	3	X ✓				X ✓		X ✓		
8-24-01	1000	01NE30SS103	SS	3	X ✓				X ✓		X ✓		
8-24-01	1020	01NE20SS102	SS	3	X ✓				X ✓		X ✓		
8-24-01	0900	01NE24SD114	SD	3	X ✓					X ✓	X ✓		
8-24-01	0930	01NE24SD115	SD	3	X ✓					X ✓	X ✓		
8-24-01	0830	01NE09SD113	SD	7	X ✓			X ✓	X ✓	X ✓	X ✓		MS/MSD TAL metals DRO/RRO only
8-24-01	0835	01NE09SD213	SD	4	X ✓				X ✓	X ✓	X ✓		

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Johanna L. Dreher	Date 08-26-01	Shipped via: Goldstreak	Shipping number: 4218 3831
Company: Montgomery Watson	Time 1600		
Received by: EJosni	Date 8/28/01	Relinquished by:	Date
Company: ARI	Time 1316	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 4.5 °C

Custody seal #s: 21, 22

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: Montgomery Watson Project Name: NE Cape

COC NO.: 01 NEC 44 Delivered By: AK Airlines

Tracking NO.: 027 4218 3875 Date: 8-28-01

ARI Job No.: DN76 Lims NO.: 01-15139 to 01-15143, 15187-15197

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: CJ Date: 8/28/01 Time: 1310

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 5.0 °C
7. What kind of packing material was used? ..... Bubble wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... YES (NO)
15. Were all VOA vials free of air bubbles? ..... YES NA NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler ~~Opened~~ Logged By: EJ Date: 8/29/01 Time 810

Explain any discrepancies or negative responses:

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: MONTGOMERY WATSON Project Name: NECAPE

COC NO.: 01NEC56 Delivered By: AK AIRLINES

Tracking NO.: 027 4218 3531 Date: 8-28-01

ARI Job No.: DN76 Lims NO.: 01-15139 to 01-15143, 15187-1519;

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler?	(YES)	NO
2. Were custody papers included with the cooler	(YES)	NO
3. Were custody papers properly filled out (ink, signed etc.)?	(YES)	NO
4. Complete custody forms and attach all shipping documents	(OK)	NA

Cooler Accepted BY: SJ Date: 8/28/01 Time: 1310

Log-IN Phase:

5. Was a temperature blank include in the cooler?	(YES)	NO
6. Record Cooler Temperature	4.5 °C	
7. What kind of packing material was used?	Bubble wrap	
8. Was sufficient ice used (if appropriate)?	(YES)	NO
9. Were all bottles sealed in separate plastic bags?	(YES)	NO
10. Did all bottles arrive in good condition (unbroken)?	(YES)	NO
11. Were all bottle labels complete and legible?	(YES)	NO
12. Did all bottle labels and tags agree with custody papers?	(YES)	NO
13. Were all bottles used correct for the requested analyses?	(YES)	NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached)	YES	(NO)
15. Were all VOA vials free of air bubbles?	YES N/A	NO
16. Was sufficient amount of sample sent in each bottle?	(YES)	NO
17. Notify Project Manager of any discrepancies or concerns	(OK)	NA

Cooler ~~Opened~~ logged By: SJ Date: 8/29/01 Time 1000

Explain any discrepancies or negative responses:

FOR SAMPLE 01NE09SD213 PCB/PAH + metals bottle labels are 01NE09SD214 (time=835) LIDS = 09SD213 SJ 8/29/01 NOTIFIED PM.

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

CoolerID/COC#: Ø1NEC44 ✓

DN76

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Bonnie MacRae, William McConnell, Douglas Quist

Date	Time	Sample ID	Matrix	Total Containers	SOIL, Cool to 4°C: DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B/7000 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
8-23-01	1550	Ø1NE31SS115	SS	1	X								
8-23-01	1555	Ø1NE31SS116	SS	1	X								
8-23-01	1600	Ø1NE31SS117	SS	1	X								
8-23-01	1605	Ø1NE31SS118	SS	1	X								
8-23-01	1610	Ø1NE31SS119	SS	1	X								
8-23-01	1615	Ø1NE31SS120	SS	1	X								
8-23-01	1620	Ø1NE31SS224	SS	1	X								
8-23-01	1630	Ø1NE31SS125	SS	1	X								

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Johanna L. Dreher	Date 08-26-01	Shipped via: Gold Streak		Shipping number: 4218 3875	
Company: Montgomery Watson	Time 1600				
Received by: Yoshi	Date 8/28/01	Relinquished by:	Date	Temperature blank temperature upon arrival: 5.8 °C	
Company: ARI	Time 1310	Company:	Time	TB on TOP of ice; Samples @ 5°C (IR)	
Received by:	Date	Relinquished by:	Date	Custody seal #s: 1, 2	
Company:	Time	Company:	Time		

Northeast Cape, St. Lawrence Island Alaska

Cooler ID/COC#: 01-[illegible]44

DN78 01-1516.8 to 01-1?.86

Montgomery Watson Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
~~Sound Analytical Services~~ Analytical Resources Inc
~~4813 Pacific Hwy. East~~ 333 Ninth Avenue North
~~Tacoma, WA. 98424~~ Seattle, WA 98109-5187
~~(253) 922-2310~~ (206) 389-6166
Fax ~~(253) 922-5047~~ FAX (206) 621-7523
Attn: ~~Dawn Werner~~ Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Douglas Quist / Melissa Markell

Date	Time	Sample ID	Matrix	Total Containers	SOIL, Cool to 4°C: DRO/RRO AK102/103 1 x 4oz. amber glass jar	GRO/BTEX AK 101/SW8021 B 1 x 4oz. glass jar w/ MeOH	VOCs (high level) SW8260B 1 x 4oz. glass jar w/ MeOH	VOCs (low level) SW8260B 2 x 40ml. glass vials w/NaSO4	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	TAL Metals SW6010B/7000 1 x 4oz. amber glass jar	TOC lab method Pb Sw 7421 1 x 4oz. amber glass jar	COMMENTS
8-23-01	1355	01NE16SS165	SS	3						X		X	MS/MSD Pb only
8-23-01	1400	01NE16SS265	SS	1								X	
8-23-01	1415	01NE16SS166	SS	2						X		X	
8-23-01	~~1540~~ 1545	01NE09SD107	SD	4	X				X	X	X		
8-23-01	1610	01NE09SD108	SD	4	X				X	X	X		
8-23-01	1500	01NE31SS105	SS	1	X								
8-23-01	1503	01NE31SS205	SS	1	X								
8-23-01	1505	01NE31SS106	SS	1	X								
8-23-01	1510	01NE31SS107	SS	1	X								
8-23-01	1515	01NE31SS108	SS	1	X								
8-23-01	1520	01NE31SS109	SS	1	X								
8-23-01	1525	01NE31SS110	SS	1	X								
8-23-01	1530	01NE31SS111	SS	1	X								
8-23-01	1535	01NE31SS112	SS	1	X								
8-23-01	1540	01NE31SS113	SS	1	X								
8-23-01	1545	01NE31SS114	SS	1	X								

Please record temperature blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Johanna L. Dreher	Date 08-26-01	Shipped via: Goldstreak	Shipping number: 4218 3875
Company: Montgomery Watson	Time 1600		
Received by: [illegible]	Date 8/28/01	Relinquished by:	Date
Company: ARI	Time 1310	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival 5.5 °C °C
TB on TOP of ice, Sample, ice 5°C

Custody seal #s: 1, 2

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

DN 78

CoolerID/COC#: Ø1NEC44

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: Bonnie Nuchea, William Adams, Douglas Quist

Date	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B/7000 1 x 4oz. amber glass jar	TOC lab method 1 x 4oz. amber glass jar	COMMENTS
8-23-01	1550	Ø1NE31SS115	SS	1	X✓								
8-23-01	1555	Ø1NE31SS116	SS	1	X✓								
8-23-01	1600	Ø1NE31SS111	SS	1	X✓								
8-23-01	1605	Ø1NE31SS118	SS	1	X✓								
8-23-01	1610	Ø1NE31SS119	SS	1	X✓								
8-23-01	1615	Ø1NE31SS124	SS	1	X✓								
8-23-01	1620	Ø1NE31SS224	SS	1	X✓								
8-23-01	1630	Ø1NE31SS125	SS	1	X✓								

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: Johanna L. Dreher	Date 08-26-01	Shipped via: Gold Streak	Shipping number: 4218 3875
Company: Montgomery Watson	Time 1600		
Received by: Yoshi	Date 8/28/01	Relinquished by:	Date
Company: ARI	Time 1310	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 5.8 °C
TB on TOP of ice, Samples @ 5°C (IR)

Custody seal #s: 1, 2

DQ74 14

01-174-67

Northeast Cape, St. Lawrence Island Alaska. 2001 Chain of Custody

Cooler ID/COC#: Ø1N 74

Montgomery Watson
Harza
4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
Attn: Jane Whitsett

Laboratory:
Analytical Resources Inc.
333 Ninth Avenue North
Seattle, WA 98109-5187
(206) 389-6166
Fax (206) 621-7523
Attn: Sue Snyder
MW Job Number:
1850574.260120
NPDL # 01-065
COELT EDF V1.2
USACE & Fuel Chromatograms
30 day turnaround

Sampler's signature: William A. O'Connell

Date	Time	Sample ID	Matrix	Total Containers	SOIL, Cool to 4°C: DRO/RRO AK102/103 1 x 4oz. amber glass jar	BTEX SW 8260B 1 x 2oz. Glass jar w/MeOH	GRO AK101 1 x 2oz. glass jar w/MeOH	VOCs SW8260B 1 x 2oz. glass jar w/MeOH	PAHs SW8270C SIM 1 x 4oz. amber glass jar	PCBs SW8082 1 x 4oz. amber glass jar	Metals SW6010B/7000 1 x 4oz. amber glass jar	Pesticides SW 8081 ~~TOC lab method 1 x 4oz. amber glass jar~~	COMMENTS
9-24-01	1100	Ø1NE16SS167	S	1								X ✓	
9-24-01	1100	Ø1NE16SS168	S	1								X ✓	
9-24-01	1110	Ø1NE28SD183	S	1								X ✓	
9-24-01	1115	Ø1NE28SD184	S	1								X ✓	
9-24-01	1120	Ø1NE28SD185	S	1								X ✓	
9-24-01	1125	Ø1NE28SD186	S	1								X ✓	
9-24-01	1135	Ø1NE28SD187	S	1								X ✓	
9-24-01	1305	Ø1NE28SD188	S	1								X ✓	
9-24-01	1300	Ø1NE28SD189	S	1								X ✓	
9-24-01	1140	Ø1NE28SD190	S	1								X ✓	
9-24-01	1145	Ø1NE28SD191	S	1								X ✓	
9-24-01	1150	Ø1NE28SD192	S	1								X ✓	
9-24-01	1155	Ø1NE28SD292	S	1								X ✓	
9-24-01	1130	Ø1NE28SD255	S	1								X ✓	

Please record Temperature Blank only in the space provided

Following receipt of sample cooler, please fax CoC and lab cooler check-in form within 24 hours to Gerald Archibald at (907) 753-2636 and Jane Whitsett at (907) 248-8884

Relinquished by: William A. O'Connell	Date 9-26-01	Shipped via: Gold Streak	Shipping number: 1725 8640
Company: Montgomery Watson	Time 1030		
Received by:	Date 9/27/01	Relinquished by:	Date
Company: A.R.I.	Time 1645	Company:	Time
Received by:	Date	Relinquished by:	Date
Company:	Time	Company:	Time

Temperature blank temperature upon arrival: 4.0 °C

Custody seal #s: 17501 17502

000007

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: MONTGOMERY WATSON Project Name: NEC Soil Samples

COC NO.: 01NEC74 Delivered By: GoldStreak

Tracking NO.: 17258640 Date: 9/27/01

ARI Job No.: DQ74 Lims NO.: 01-17167 – 01-17180

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... (YES) NO
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: ERIC BRANSON Date: 9/27/01 Time: 1545

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... (YES) NO
6. Record Cooler Temperature ..... 4.0 °C
7. What kind of packing material was used? ..... Bubble Wrap
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... (YES) NO
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... NA YES NO
15. Were all VOA vials free of air bubbles? ..... YES NA NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: ERIC BRANSON Date: 9/27/01 Time 1640

Explain any discrepancies or negative responses:

										Soil							Groundwater						Geotechnical	
										DRO/RRO Ak 102/103	GRO AK101	BTEX SW8260B	PAHSIM SW8270C	PCB SW8082	Pb, Zn, Cr SW6020	TOC	DRO/RRO AK102/103	GRO AK101	BTEX SW8260B	Alkalinity EPA 300	Sulfate EPA 300	Methan, Ethane, Ethene, RSK 175	Sieve Analysis ASTM D-422, Specific Gravity ASTM D-854, Moisture Content ASTM D-2216	Dry Bulk Densit ASTM D-2937, Hydraulic Conductivity ASTM D-4511, Soil Porosity - Calculated
Sample ID	Sample Type	Media	Sample Location	Date 2002	Time	Depth	PID	Laboratory	COC #															
02NE88SB001	N	Soil	MW-1	08/14/02	1530	15.5-17.5	204	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB001	MS/MSD	Soil	MW-1	08/14/02	1530	15.5-17.5	-	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB002	N	Soil	MW-1	08/14/02	1600	17.5-20.0	98.7	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB003	N	Soil	MW-2	08/14/02	1645	8.0-10.0	30.9	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB004	N	Soil	MW-2	08/14/02	1700	10.0-12.0	13.8	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB005	N	Soil	MW-3	08/15/02	1155	4.0-6.0	67.7	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB006	N	Soil	MW-3	08/17/02	1110	16.0-18.0	185.8	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB206	FD	Soil	MW-3	08/17/02	1110	16.0-18.0	-	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB306	QA	Soil	MW-3	08/17/02	1110	16.0-18.0	-	STL	14	1	1	1	1	1	1	1								
02NE88SB007	N	Soil	MW-4	08/17/02	1320	9.0-11.0	284	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB008	N	Soil	MW-4	08/17/02	1330	11.0-13.0	440	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB009	N	Soil	MW-5	08/17/02	2000	1.0-3.0		CAS	1,2	1	1	1	1	1	1	1								
02NE88SB010	N	Soil	MW-5	08/17/02	2030	11.0-13.0		CAS	1,2	1	1	1	1	1	1	1								
02NE88SB011	N	Soil	MW-6	08/18/02	1145	7.0-9.0	185	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB012	N	Soil	MW-6	08/18/02	1155	11.0-13.0	111	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB013	N	Soil	MW-7	08/18/02	1335	7.0-9.0	695	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB014	N	Soil	MW-7	08/18/02	1350	11.0-13.0	627	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB015	N	Soil	MW-8	08/18/02	1700	10.0-12.0	1248*	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB016	N	Soil	MW-8	08/18/02	1720	14.0-16.0	>10,000*	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB016	MS/MSD	Soil	MW-8	08/18/02	1720	14.0-16.0		CAS	9, 10		1	1												
02NE88SB017	N	Soil	MW-9	08/19/02	1310	8.0-10.0	2876*	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB017	MS/MSD	Soil	MW-9	08/19/02	1310	8.0-10.0		CAS	9, 10	1			1	1	1									
02NE88SB018	N	Soil	MW-9	08/19/02	1355	20.0-22.0	342*	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB019	N	Soil	MW-10	08/19/02	1705	22.0-24.0	881*	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB020	N	Soil	MW-10	08/19/02	1715	24.0-26.0	352*	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB021	N	Soil	SB-11	08/17/02	1820	3.0-5.0		CAS	1,2	1	1	1	1	1	1	1								
02NE88SB022	N	Soil	SB-11	08/17/02	1840	7.0-9.0		CAS	1,2	1	1	1	1	1	1	1								
02NE88SB023	N	Soil	SB-12	08/20/02	1250	4.0-6.0	89	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB024	N	Soil	SB-12	08/20/02	1305	10.0-12.0	53	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB025	N	Soil	SB-13	08/20/02	1415	6.0-8.0	153	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB026	N	Soil	SB-13	08/20/02	1435	14.0-16.0	11.2	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB027	N	Soil	SB-14	08/20/02	1505	2.0-4.0	6080	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB028	N	Soil	SB-14	08/20/02	1530	12.0-14.0	150	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB029	N	Soil	SB-15	08/20/02	1730	10.0-12.0	[redacted]	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB030	N	Soil	SB-15	08/20/02	1735	12.0-14.0	133	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB031	N	Soil	SB-16	08/20/02	1850	6.0-8.0	1558	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB032	N	Soil	SB-16	08/20/02	1905	10.0-12.0	2672	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB033	N	Soil	SB-17	08/21/02	1500	8.0-10.0	>10,000	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB034	N	Soil	SB-17	08/21/02	1510	12.0-14.0	>10,000	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB234	FD	Soil	SB-17	08/21/02	1515	-	-	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB035	N	Soil	SB-18	08/21/02	1555	8.0-10.0	[redacted]	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB035	QA	Soil	SB-18	08/21/02	1600			STL	14	1	1	1	1	1	1	1								
02NE88SB035	QA MS/MSD	Soil	SB-18	08/21/02	1600			STL	14	1	1	1	1	1	1	1								
02NE88SB036	N	Soil	SB-18	08/21/02	1605	10.0-12.0	[redacted]	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB236	FD	Soil	SB-18	08/21/02	1607	-	-	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB037	N	Soil	SB-22-1	08/22/02	1400	28.0-30.0	0	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB237	FD	Soil	SB-22-1	08/22/02	1405	-	-	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB038	N	Soil	SB-22-1	08/22/02	1410	30.0-32.0	0	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB338	QA	Soil	SB-22-1	08/22/02	1415			STL	14	1	1	1	1	1	1	1								
02NE88SB039	N	Soil	SB-22-2	08/22/02	1935	26.0-28.0	0	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB239	FD	Soil	SB-22-2	08/22/02	1940	-	-	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB040	N	Soil	SB-22-2	08/22/02	1950	28.0-30.0	0	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB340	QA	Soil	SB-22-2	08/22/02	1955			STL	14	1	1	1	1	1	1	1								
02NE88SB041	N	Soil	SB-6	08/18/02	1140	4.0-6.0	90.8	R&M	15														1	1
02NE88SB042	N	Soil	SB-9	08/19/02	1315	10.0-12.0		R&M	15														1	1
02NE88SB043	N	Soil	SB-16	08/20/02	1900	7.0-9.0		R&M	15														1	1
02NE88SB044	N	Soil	SB-18	08/21/02	1605	9.0-11.0		R&M	15														1	1
02NE88GW001	N	Groundwater	MW-1	08/17/02	1400	-	-	CAS	3								1	1	1	1	1	1		
02NE88GW002	N	Groundwater	MW-2	08/17/02	1700	-	-	CAS	3								1	1	1	1	1	1		
02NE88GW003	N	Groundwater	MW-3	08/19/02	1230	-	-	CAS	5, 6, 7								1	1	1	1	1	1		
02NE88GW004	N	Groundwater	MW-4	08/19/02	1400	-	-	CAS	5, 6, 7								1	1	1	1	1	1		
02NE88GW204	FD	Groundwater	MW-4	08/19/02	1410	-	-	CAS	5, 6, 7								1	1	1	1	1	1		
02NE88GW304	QA	Groundwater	MW-4	08/19/02	1420	-	-	STL	8								1	1	1	1	1	1		
02NE88GW304	QA MS/MSD	Groundwater	MW-4	08/19/02	1420	-	-	STL	8								1	1	1					
02NE88GW005	N	Groundwater	MW-5	08/19/02	1500	-	-	CAS	5, 6, 7								1	1	1	1	1	1		
02NE88GW006	N	Groundwater	MW-6	08/20/02	1300	-	-	CAS	5, 6, 7								1	1	1	1	1	1		
02NE88GW007	N	Groundwater	MW-7	08/20/02	1400	-	-	CAS	5, 6, 7								1	1	1	1	1	1		
02NE88GW007	MS/MSD	Groundwater	MW-7	08/20/02	1400	-	-	CAS	5, 6, 7								1	1	1	1	1	1		
02NE88GW008	N	Groundwater	MW-8	08/20/02	1500	-	-	CAS	5, 6, 7								1	1	1	1	1	1		
02NE88GW009	N	Groundwater	MW-9	08/21/02	1500	-	-	CAS	11								1	1	1	1	1	1		
02NE88GW010	N	Groundwater	MW-10	08/21/02	1400	-	-	CAS	11								1	1	1	1	1	1		
02NE88TB001	Trip Blank	Soil	-	08/14/02	2100	-	-	CAS	2									1	1					
02NE88TB002	Trip Blank	Water	-	08/17/02	2100	-	-	CAS	3									1	1			1		
02NE88TB003	Trip Blank	Water	-	08/19/02	2100	-	-	CAS	5									1	1			1		
02NE88TB004	Trip Blank	Water	-	08/19/02	2100	-	-	STL	8									1	1					
02NE88TB005	Trip Blank	Soil	-	08/18/02	2100	-	-	CAS	10									1	1					
02NE88TB006	Trip Blank	Water	-	08/19/02	2100	-	-	CAS	11									1	1			1		
02NE88TB007	Trip Blank	Soil	-	08/21/02	2100	-	-	CAS	12									1	1					
02NE88TB008	Trip Blank	Soil	-	08/17/02	2100	-	-	STL	14									1	1					
02NE88EB001	Equipment Blank	Water	-	08/14/02	2100	-	-	CAS	3									1	1					
02NE88EB002	Equipment Blank	Water	-	08/17/02	2100	-	-	CAS	3									1	1					
02NE88EB003	Equipment Blank	Water	-	08/18/02	2100	-	-	CAS	3									1	1					
02NE88EB004	Equipment Blank	Water	-	08/19/02	2100	-	-	CAS	11									1	1					
02NE88EB005	Equipment Blank	Water	-	08/20/02	2100	-	-	CAS	11									1	1					

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	DRO/RRO AK102/103, PAH SIM SW8270C, 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	30 day Turn-Around-Time 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: (907)753-2691 Sandra Kimbrell at (907) 353-7070
Sampler's Signature Douglas Quist	Bonnie McWilliams									

Date 2002	Time	Sample ID	Matrix	# of Containers									
8/14	1530	02NE88SB001	S	3	X			X					MS/MSD
8/14	1600	02NE88SB002	S	2	X			X					
8/14	1645	02NE88SB003	S	2	X			X					
8/14	1700	02NE88SB004	S	2	X			X					
8/15	1155	02NE88SB005	S	2	X			X					
8/17	1110	02NE88SB006	S	2	X			X					
8/17	1320	02NE88SB007	S	2	X			X					
8/17	1330	02NE88SB008	S	2	X			X					
8/17	2000	02NE88SB009	S	2	X			X					
8/17	2030	02NE88SB010	S	2	X			X					
8/17	1820	02NE88SB021	S	2	X			X					
8/17	1840	02NE88SB022	S	1	X								
8/17	1200	02NE88SB206	S	2	X			X					

Relinquished by: Douglas Quist	Date 8/19/02 Time 0830	Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2803		
Received for Laboratory by:	Date Time	Cooler Temperature Upon Arrival	°C	Laboratory Notified Call or Faxed

COC # 02NE 1

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	DRO/RRO AK102/103, PAH SIM SW8270C, 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	30 day Turn-Around-Time 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: (907)753-2691 Sandra Kimbrell at (907) 353-7070
Sampler's Signature Douglas Quist	Wilbur Hoffmann Bornmann									

Date 2002	Time	Sample ID	Matrix	Total Containers								
8/18	1145	02NE88SB011	S	2	X			X				
8/18	1155	02NE88SB012	S	2	X			X				
8/18	1335	02NE88SB013	S	2	X			X				
8/18	1350	02NE88SB014	S	2	X			X				

Relinquished by: Douglas Quist	Date 8/19/02 Time 0830	Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2803		
Received for Laboratory by:	Date Time	Cooler Temperature Upon Arrival	°C	Laboratory Notified Call or Faxed

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Form

Project/Client M Watson Work Order K22 05725

Cooler received on 8/20/02 and opened on 8/20/02 by TBlack

1.	Were custody seals on outside of cooler? If yes, how many and where? Front					(Y)	N
2.	Were seals intact and signature & date correct?					(Y)	N
3.	COC #	02NE2	02NE1	____	____	____	
	Temperature of cooler(s) upon receipt:	0.8	1.0	____	____	____	
	Temperature Blank:	-0.1	0.7	____	____	____	
4.	Were custody papers properly filled out (ink, signed, etc.)?					(Y)	N
5.	Type of packing material present gel packs - bwrap - bags						
6.	Did all bottles arrive in good condition (unbroken)?					(Y)	N
7.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?					(Y)	N
8.	Did all bottle labels and tags agree with custody papers?					(Y)	N
9.	Were the correct types of bottles used for the tests indicated?					(Y)	N
10.	Were all of the preserved bottles received at the lab with the appropriate pH?					Y	(N)
11.	Were VOA vials checked for absence of air bubbles, and if present, noted below?					~~Y~~	~~N~~
12.	Did the bottles originate from CAS/K or a branch laboratory?					(Y)	N
13.	Are CWA Microbiology samples received with > ½ the 24 hr. hold time remaining from collection?					~~Y~~	~~N~~
14.	Was CL2/Residual negative?					~~Y~~	~~N~~

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

GoldStreak Alaska Airlines 1850574.260120

www.ALASKAAIR.com
1-800-2ALASKA

P.O. Box 68900
Seattle, WA 98168

Airline	Origin	AIR WAYBILL Number
027-		4974 2803

Shipper to complete all shaded areas

From Shipper: [illegible] MONTGOMERY WATSON AMER INC 907 248-8863

Address: 4300 STEWARD ROAD | Phone:

City: ANCHORAGE AK 99517 | State: | Zip Code:

I certify that this shipment does not contain any unauthorized explosives, destructive devices or hazardous materials.

Shipper's Signature X | PRINTED NAME | Date

Domestic [X] | International [ ]

Insured Value | Declared Value For Customs

Airport of Departure | First Carrier | Airport of Destination

Nature and Quantity of Goods: Soil Samples

Handling Information: Portland

To Consignee: (Complete Consignee information required on package) Columbia Analytical Services, Inc ATTN: Mingta Li

Address: 1317 South 13th Ave | Phone: 360/577-7222

City: Kelso | State: WA | Zip Code 98626

Consignee's Printed Name - Signature (Received in Good Order Except as Noted) | Time a.m. p.m. | Date

Airline	Origin	AIR WAYBILL Number
027-		4974 2803

GoldStreak Alaska Airlines

This is a non-negotiable AIR WAYBILL subject to the terms and conditions set forth on the reverse of shippers copy.

Total Pieces: 1 | Total Weight

Form of Payment
☐ Cash ☐ Check ☐ GBL–Attach GBL
☒ AS / QX Account Number 27460651551
☐ Credit Card Number

Validata Approval (Required for all except cash and GBL)

CHECK ONE ONLY
☒ AIRPORT TO AIRPORT SERVICE

PICK-UP ONLY ☐ | DELIVERY ONLY ☐ | DOOR TO DOOR ☐

Executed By: Date/Time a.m. p.m.

Carrier	Flight	Destination	E.T.A.
AS			

Remarks

MULTIPLE PIECES FOR AS FLIGHTS ONLY
Please ✓ If Live Animal ☐

PCS.	WT. RANGE	RATE	CHARGE
	GSX LETTER		
	1-15		
	16-50		
1	51-70	17	
	71-100		
	Subtotal Charges		

AS COURIER CHARGES

Other Charges	
1st Carrier	
2nd Carrier	
3rd Carrier	
Tax (Offline only)	
Pickup (NON AS COURIER)	
Delivery (NON AS COURIER)	
Special Service	
Insurance	
TOTAL	17

Door-To-Door Service: (800) 634-7113

10. Original Invoice

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				DRO/RRO AK102/103, PAH SIM SW8270C, 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	30 day Turn-Around-Time 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: (907)753-2691 Sandra Kimbrell at (907) 353-7070
Sampler's Signature Douglas Quist Bonnie Wellman Linda Lund													
Date 2002	Time	Sample ID	Matrix	# of containers									
8/14	1530	02NE88SB001	S	6		X	X						MS/MSD
8/14	1600	02NE88SB002	S	2		X	X						
8/14	1645	02NE88SB003	S	2		X	X						
8/14	1700	02NE88SB004	S	2		X	X						
8/15	1155	02NE88SB005	S	2		X	X						
8/17	1110	02NE88SB006	S	2		X	X						
8/17	1320	02NE88SB007	S	2		X	X						
8/17	1330	02NE88SB008	S	2		X	X						
8/17	2000	02NE88SB009	S	2		X	X						
8/17	2030	02NE88SB010	S	2		X	X						
8/17	1820	02NE88SB021	S	2		X	X						
8/17	1840	02NE88SB022	S	2		X	X						
8/17	1200	02NE88SB206	S	2		X	X						
Relinquished by: Douglas Quist			Date 8/19/02		Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2711								
			Time 0830										
Received for Laboratory by:			Date		Cooler Temperature Upon Arrival							°C	Laboratory Notified Call or Faxed
			Time										

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				DRO/RRO AK102/103, PAH SIM SW8270C, 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	30 day Turn-Around-Time 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: (907)753-2691 Sandra Kimbrell at (907) 353-7070
Sampler's Signature Douglas Quist													
Date 2002	Time	Sample ID	Matrix	Total # of Containers									
8/18	1145	02NE88SB011	S	2		X	X						
8/18	1155	02NE88SB012	S	2		X	X						
8/18	1335	02NE88SB013	S	2		X	X						
8/18	1350	02NE88SB014	S	2		X	X						
8/14	2100	02NE88TB001	S	2		X	X						
Relinquished by: Douglas Quist			Date 8/19/02 Time 0830		Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2711								
Received for Laboratory by:			Date Time		Cooler Temperature Upon Arrival							°C	Laboratory Notified Call or Faxed

Columbia Analytical Services Inc.
Cooler Receipt And Preservation Form

Project/Client M Watson Work Order K22 05725

Cooler received on 5/20/02 and opened on 5/20/02 by TBlack

1.	Were custody seals on outside of cooler? If yes, how many and where? Front					(Y)	N
2.	Were seals intact and signature & date correct?					(Y)	N
3.	COC #	02NE2	02NE1	___	___	___	
	Temperature of cooler(s) upon receipt:	0.8	1.0	___	___	___	
	Temperature Blank:	-0.1	0.7	___	___	___	
4.	Were custody papers properly filled out (ink, signed, etc.)?					(Y)	N
5.	Type of packing material present gel packs - bwrap - bags						
6.	Did all bottles arrive in good condition (unbroken)?					(Y)	N
7.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?					(Y)	N
8.	Did all bottle labels and tags agree with custody papers?					(Y)	N
9.	Were the correct types of bottles used for the tests indicated?					(Y)	N
10.	Were all of the preserved bottles received at the lab with the appropriate pH?					Y	(N)
11.	Were VOA vials checked for absence of air bubbles, and if present, noted below?					~~Y~~	~~N~~
12.	Did the bottles originate from CAS/K or a branch laboratory?					(Y)	N
13.	Are CWA Microbiology samples received with > ½ the 24 hr. hold time remaining from collection?					~~Y~~	~~N~~
14.	Was CL2/Residual negative?					~~Y~~	~~N~~

Explain any discrepancies: ___

RESOLUTION: ___

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

Gold Streak Alaska Airlines 1850574.260120

www.ALASKAAIR.com
1-800-2ALASKA

P.O. Box 68900
Seattle, WA 98168

Airline	Origin	AIR WAYBILL Number
027-		4974 2711

Shipper to complete all shaded areas

From Shipper: MONTGOMERY WATSON AMER ANC 907 248-8863

Address: 4101 ST ENARD ROAD

Phone:

City: ANCHORAGE AK 99517

State:

Zip Code:

I certify that this shipment does not contain any unauthorized explosives, destructive devices or hazardous materials.

Shipper's Signature X

PRINTED NAME

Date

Domestic ☒ International ☐

Insured Value

Declared Value For Customs

Airport of Departure | First Carrier | Airport of Destination

Nature and Quantity of Goods: Samples

Handling Information: Portland

To Consignee: (Complete Consignee information required on package) Columbia Analytical Services, Inc ATTN: Mingta Li

Address: 1317 South 13th Ave

Phone: 360/577-7222

City: Kelso

State: WA

Zip Code 98626

Consignee's Printed Name - Signature (Received in Good Order Except as Noted)

Time a.m. p.m.

Date

Airline	Origin	AIR WAYBILL Number
027-		4974 2711

Gold Streak Alaska Airlines

This is a non-negotiable AIR WAYBILL subject to the terms and conditions set forth on the reverse of shippers copy.

Total Pieces

Total Weight

MULTIPLE PIECES FOR AS FLIGHTS ONLY

Please ✓ If Live Animal ☐

Form of Payment

☐ Cash ☐ Check ☐ GBL–Attach GBL

☒ AS / QX Account Number 2 4974 6711

☐ Credit Card Number

Validata Approval (Required for all except cash and GBL)

CHECK ONE ONLY

☒ AIRPORT TO AIRPORT SERVICE

PICK-UP ONLY ☐ DELIVERY ONLY ☐ DOOR TO DOOR ☐

Executed By: Date/Time a.m. p.m.

Carrier	Flight	Destination	E.T.A.
AS			

Remarks

PCS.	WT. RANGE	RATE	CHARGE
	GSX LETTER		
	1-15		
	16-50		
	51-70		
	71-100		
	Subtotal Charges		

AS COURIER CHARGES

Other Charges

1st Carrier	
2nd Carrier	
3rd Carrier	
Tax (Offline only)	
Pickup (NON AS COURIER)	
Delivery (NON AS COURIER)	
Special Service	
Insurance	
TOTAL	

Door-To-Door Service: (800) 634-7113

10. Original Invoice

2002 North Cape

COC # 3

2002 Northeast Cape
1850574.260120

FROM:	TO:
MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher	Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax: 360-636-1068 Attn: Mingta Lin

Sampler's Signature: Douglas Quist Bonnie Williard A. Dunlap

Date - 2002	Time	Sample ID	Matrix	# Containers	SOIL: DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	SOIL: BTEX SW8260B	SOIL: GRO AK101	SOIL: Spare	WATER: Sulfate EPA 300 Alkalinity EPA 300	WATER: BTEX SW8260B GRO AK101	WATER: Methane, Ethane, Ethene RSK 175	WATER: DRO/RRO AK102/103
8/17	1400	02NE88GW001	W	8					X	X	X	X
8/17	1700	02NE88GW002	W	8					X	X	X	X
8/17	2100	02NE88TB002	W	3						X	X	
8/14	2100	02NE88EB001	W	8 4						X		X
8/17	2100	02NE88EB002	W	5						X		X
8/16	2100	02NE88EB003	W	5						X		X

30 day Turn-Around-Time
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: (907)753-2691
Sandra Kimbrell at (907) 353-7070

Relinquished by: Douglas Quist — Date 8/19/02 — Time 0830

Received for Laboratory by: — Date — Time

Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2722

Cooler Temperature Upon Arrival °C

Laboratory Notified 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				DRO/RRO AK102/103, PAH SIM SW8270C, 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	30 day Turn-Around-Time 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: (907)753-2691 Sandra Kimbrell at (907) 353-7070	
Sampler's Signature Douglas Quist Bonnie Williard Kimball														
Date 2002	Time	Sample ID	Matrix	Container										
8/17	1400	02NE88GW001	W	8					X	X	X	X		
8/17	1700	02NE88GW002	W	8					X	X	X	X		
8/17	2100	02NE88TB002	W	3						X				
8/14	2100	02NE88EB001	W	4						X		X		
8/17	2100	02NE88EB002	W	5						X		X		
8/18	2100	02NE88EB003	W	5						X		X		

Relinquished by: Douglas Quist	Date 8/19/02	Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2722		
	Time 0830			
Received for Laboratory by:	Date	Cooler Temperature Upon Arrival	°C	Laboratory Notified Call or Faxed
	Time			

FAX

MWH
MONTGOMERY WATSON HARZA

4100 Spenard Road
Anchorage, AK 99517

Tel: (907) 248-8883
Fax: (907) 248-8884

Date:

To:

Company:

From:

Subject:

Fax No:

Job No:

No. of Pages:
(including cover)

If you do not receive all pages, or if there are any problems with this transmission, please call our office at (907) 248-8883.

Transmission Report

Date/Time 8-29-02;10:50AM
Local ID 2488884
Local Name MWH
Company Logo

This document was confirmed.
(reduced sample and details below)
Document Size Letter-S

FAX

MWH
MONTGOMERY WATSON HARZA

Date:

4100 Spenard Road
Anchorage, AK 99517

Tel: (907) 248-8883
Fax: (907) 248-8884

To: Mingfu Lin
Company: Columbia Analytical Services
From: Douglas Quist

Subject: COC Revisions
Fax No: 360-636-1068
Job No: 1350574.260120
No. of Pages: 3
(including cover)

Mingfu -

Please Add Methane, Ethane, Ethene to

02NE88715002 COC 02NE3
02NE88715003 COC 02NE5

Douglas Quist

If you do not receive all pages, or if there are any problems with this transmission, please call our office at (907) 248-8883.

Total Pages Scanned : 3 Total Pages Confirmed : 3

No.	Doc	Remote Station	Start Time	Duration	Pages	Mode	Comments	Results
1	728	13606361068	8-29-02;10:48AM	1'55"	3/ 3	EC		CP 14.4

Notes :

EC: Error Correct
BC: Broadcast Send
CP: Completed
HS: Host Scan
HF: Host Fax
RE: Resend
MP: Multi-Poll
RM: Receive to Memory
HP: Host Print
HR: Host Receive
PD: Polled by Remote
PG: Polling a Remote
DR: Document Removed
FO: Forced Output
FM: Forward Mailbox Doc.
MB: Receive to Mailbox
PI: Power Interruption
TM: Terminated by user
WT: Waiting Transfer
WS: Waiting Send

Cooler Receipt And Preservation Form

Project/Client MWater v Work Order K2205720

Cooler received on 8/20/12 and opened on 8/20/12 by TBlack

.	Were custody seals on outside of cooler? If yes, how many and where? 1 front, sample tape on back					(Y)	N
2.	Were seals intact and signature & date correct?					(Y)	N
3.	COC #	02NEB	___	___	___	___	
	Temperature of cooler(s) upon receipt:	4.5	___	___	___	___	
	Temperature Blank:	3.7	___	___	___	___	
4.	Were custody papers properly filled out (ink, signed, etc.)?					(Y)	N
5.	Type of packing material present inserts - bags - bubble wrap - gel packs						
6.	Did all bottles arrive in good condition (unbroken)?					(Y)	N
7.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?					(Y)	N
8.	Did all bottle labels and tags agree with custody papers?					(Y)	N
9.	Were the correct types of bottles used for the tests indicated?					(Y)	N
10.	Were all of the preserved bottles received at the lab with the appropriate pH?					~~Y~~	~~N~~
11.	Were VOA vials checked for absence of air bubbles, and if present, noted below?					(Y)	N
12.	Did the bottles originate from CAS/K or a branch laboratory?					(Y)	N
13.	Are CWA Microbiology samples received with > ½ the 24 hr. hold time remaining from collection?					~~Y~~	~~N~~
14.	Was CL2/Residual negative?					~~Y~~	~~N~~

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

GoldStreak Alaska Airlines

www.ALASKAAIR.com
1-800-2ALASKA

P.O. Box 68900
Seattle, WA 98168

Airline	Origin	AIR WAYBILL Number
027-		4974 2722

1850574 260120

From Shipper: MONTGOMERY WATSON AMER INC 907 248-8323

Address: 4100 SPENARD ROAD

Phone:

City: ANCHORAGE AK 99517

State:

Zip Code:

I certify that this shipment does not contain any unauthorized explosives, destructive devices or hazardous materials.

Shipper's Signature X

PRINTED NAME

Date

Domestic ☒ International ☐

Insured Value

Declared Value For Customs

Airport of Departure | First Carrier | Airport of Destination

Nature and Quantity of Goods: Soil Samples

Handling Information: Portland

To Consignee: (Complete Consignee information required on package)

Columbia Analytical Services, Inc ATTN: Mingta Lin

Address: 1317 South 13th Ave

Phone: 360/577-7222

City: Kelso

State: WA

Zip Code: 98626

Consignee's Printed Name - Signature (Received in Good Order Except as Noted)

Time a.m. p.m.

Date

Airline	Origin	AIR WAYBILL Number
027-		4974 2722

GoldStreak Alaska Airlines

This is a non-negotiable AIR WAYBILL subject to the terms and conditions set forth on the reverse of shippers copy.

Total Pieces: 1

Total Weight:

MULTIPLE PIECES FOR AS FLIGHTS ONLY

Please ✓ If Live Animal ☐

Form of Payment

☐ Cash ☐ Check ☐ GBL–Attach GBL

☒ AS / QX Account Number [redacted]

☐ Credit Card Number

Validata Approval (Required for all except cash and GBL)

CHECK ONE ONLY

☒ AIRPORT TO AIRPORT SERVICE

PICK-UP ONLY ☐ DELIVERY ONLY ☐ DOOR TO DOOR ☐

Executed By: Date/Time a.m. p.m.

Carrier	Flight	Destination	E.T.A.
AS			

Remarks

PCS.	WT. RANGE	RATE	CHARGE
	GSX LETTER		
	1-15		
	16-50		
	51-70		
	71-100		
	Subtotal Charges		

AS COURIER CHARGES

Other Charges

1st Carrier	
2nd Carrier	
3rd Carrier	
Tax (Offline only)	
Pickup (NON AS COURIER)	
Delivery (NON AS COURIER)	
Special Service	
Insurance	
TOTAL	

Shipper to complete all shaded areas

Door-To-Door Service: (800) 634-7113

10. Original Invoice

2002 Northeast Cape
1850574.260120

SOIL | WATER

FROM:	TO:
MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher	Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax: 360-636-1068 Attn: Mingta Lin

30 day Turn-Around-Time
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: (907)753-2691
Sandra Kimbrell at (907) 353-7070

Sampler's Signature: Douglas Quist

Date 2002	Time	Sample ID	Matrix	Total # Containers	DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP 1 Clear glass unpreserved 8oz jar	BTEX SW8260B 1 Clear glass w/MeOH 4oz jar	GRO AK101 1 Amber glass w/surrogate & MeOH 4oz jar	Spare 1 Clear glass unpreserved 4oz jar	Sulfate EPA 300 Alkalinity EPA 300 1 plastic unpreserved 500ml bottle	BTEX SW8260B GRO AK101 3 VOA vials w/ HCl 40ml	Methane, Ethane, Ethene RSK 175 3 VOA vials w/ HCl 40 ml	DRO/RRO AK102/103 2 Amber glass w/ HCl 500ml bottles	Comments
8/19	1230	02NE886W003	W	5						X	X		
8/19	1400	02NE886W004	W	5						X	X		
8/19	1500	02NE886W005	W	5						X	X		
8/20	1300	02NE886W006	W	5						X	X		
8/20	1400	02NE886W007	W	15						X	X		MS/MSD
8/20	1500	02NE886W008	W	~~15~~ 5						X	X		~~MS/MSD~~ DUP
8/19	1410	02NE886W204	W	5						X	X		
8/19	2100	02NE88TB003	W	3						X			

Relinquished by: Douglas Quist — Date 8/21/02 — Time 0800

Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2755

Received for Laboratory by: — Date — Time

Cooler Temperature Upon Arrival °C

Laboratory Notified Call or Faxed

COC # 02NE5

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	DRO/RRO AK102/103, PAH SIM SW8270C, 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	30 day Turn-Around-Time 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: (907)753-2691 Sandra Kimbrell at (907) 353-7070
Sampler's Signature Douglas Quist		8oz jar	40 ml VOA vial	40 ml VOA vial	4oz jar	100 bottle	3 VOA vials	3 VOA vials	2 bottles	Comments

Date 2002	Time	Sample ID	Matrix	Total Containers										
8/19	1230	02NE886W003	W	5							X	X		
8/19	1400	02NE886W004	W	5							X	X		
8/19	1500	02NE886W005	W	5							X	X		
8/20	1300	02NE886W006	W	5							X	X		
8/20	1400	02NE886W007	W	15							X	X		MS/MSD
8/20	1500	02NE886W008	W	~~15~~ 10							X	X		~~MS/MSD~~ DUP
8/19	1410	02NE886W204	W	5							X	X		
8/19	2100	02NE88TB003	W	3							X			

Relinquished by Douglas Quist	Date 8/21/02 Time 0800	Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2755	
Received for Laboratory by:	Date Time	Cooler Temperature Upon Arrival	°C Laboratory Notified Call or Faxed

FAX

MWH
MONTGOMERY WATSON HARZA

4100 Spenard Road
Anchorage, AK 99517

Tel: (907) 248-8883
Fax: (907) 248-8884

Date:

To:

Company:

From:

Subject:

Fax No:

Job No:

No. of Pages:
(including cover)

If you do not receive all pages, or if there are any problems with this transmission, please call our office at (907) 248-8883.

Transmission Report

Date/Time 8-29-02;10:50AM
Local ID 2488884
Local Name MWH
Company Logo

This document was confirmed.
(reduced sample and details below)
Document Size Letter-S

FAX

MWH
MONTGOMERY WATSON HARZA

Date:

4100 Spenard Road
Anchorage, AK 99517

Tel: (907) 248-8883
Fax: (907) 248-8884

To: Mingfu Lin
Company: Columbia Analytical Servics
From: Douglas Quist

Subject: COC Revisions
Fax No: 360-636-1068
Job No: 1850574.260120
No. of Pages: 3
(including cover)

Mingfu -

Please Add Methane, Ethane, Ethene to

02NE8878002 COC 02NE3
02NE8878003 COC 02NE5

Douglas Quist

If you do not receive all pages, or if there are any problems with this transmission, please call our office at (907) 248-8883.

Total Pages Scanned : 3 Total Pages Confirmed : 3

No.	Doc	Remote Station	Start Time	Duration	Pages	Mode	Comments	Results
1	728	13606361068	8-29-02;10:48AM	1'55"	3/ 3	EC		CP 14.4

Notes :

EC: Error Correct	RE: Resend	PD: Polled by Remote	MB: Receive to Mailbox
BC: Broadcast Send	MP: Multi-Poll	PG: Polling a Remote	PI: Power Interruption
CP: Completed	RM: Receive to Memory	DR: Document Removed	TM: Terminated by user
HS: Host Scan	HP: Host Print	FO: Forced Output	WT: Waiting Transfer
HF: Host Fax	HR: Host Receive	FM: Forward Mailbox Doc.	WS: Waiting Send

Cooler Receipt And Preservation Form

Project/Client Montgomery Watson - Work Order K22 5936

Cooler received on 8/22/02 and opened on 8/22/02 by: SM -

1. Were custody seals on outside of cooler? Red Custody Tape - (Y) N
   If yes, how many and where?
2. Were seals intact and signature & date correct? mtl 10/15/02 (Y) N
3. COC #

Temperature of cooler(s) upon receipt:	0.0				
Temperature Blank:	1.0				

4. Were custody papers properly filled out (ink, signed, etc.)? (Y) N
5. Type of packing material present ice packs plastic
6. Did all bottles arrive in good condition (unbroken)? (Y) N
7. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? NO ~~Y~~ N km
8. Did all bottle labels and tags agree with custody papers? (Y) N
9. Were the correct types of bottles used for the tests indicated? (Y) N
10. Were all of the preserved bottles received at the lab with the appropriate pH? ~~Y~~ ~~N~~
11. Were VOA vials checked for absence of air bubbles, and if present, noted below? (Y) N
12. Did the bottles originate from CAS/K or a branch laboratory? (Y) N
13. Are CWA Microbiology samples received with > ½ the 24 hr. hold time remaining from collection? ~~Y~~ ~~N~~
14. Was CL2/Residual negative? ~~Y~~ ~~N~~

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

GoldStreak Alaska Airlines 1850574.260120

www.ALASKAAIR.com
1-800-2ALASKA

P.O. Box 68900
Seattle, WA 98168

Airline	Origin	AIR WAYBILL Number
027-		4974 2755

Shipper to complete all shaded areas

From Shipper: MONTGOMERY WATSON AMER INC 907 245-8833

Address: 4100 SPENARD ROAD

Phone:

City: ANCHORAGE AK 99517 State:

Zip Code:

I certify that this shipment does not contain any unauthorized explosives, destructive devices or hazardous materials.

Shipper's Signature X PRINTED NAME

Date

Domestic ☐ International ☐

Insured Value

Declared Value For Customs

Airport of Departure | First Carrier | Airport of Destination

Nature and Quantity of Goods:

Handling Information: Portland

To Consignee: (Complete Consignee information required on package) Columbia Analytical Services, Inc ATTN: Mingta Li

Address: 1317 South 13th Ave

Phone: 360/577-7222

City: Kelso State: WA

Zip Code 98626

Consignee's Printed Name - Signature (Received in Good Order Except as Noted)

Time a.m. p.m.

Date

Airline	Origin	AIR WAYBILL Number
027-		4974 2755

GoldStreak Alaska Airlines

This is a non-negotiable AIR WAYBILL subject to the terms and conditions set forth on the reverse of shippers copy.

Total Pieces

Total Weight

MULTIPLE PIECES FOR AS FLIGHTS ONLY

Please ✓ If Live Animal ☐

Form of Payment

☐ Cash ☐ Check ☐ GBL—Attach GBL

☐ AS / QX Account Number

☐ Credit Card Number

Validata Approval

(Required for all except cash and GBL)

CHECK ONE ONLY

☑ AIRPORT TO AIRPORT SERVICE

PICK-UP ONLY ☐ DELIVERY ONLY ☐ DOOR TO DOOR ☐

Executed By: Date/Time a.m. p.m.

Carrier	Flight	Destination	E.T.A.
AS			

Remarks

PCS.	WT. RANGE	RATE	CHARGE
	GSX LETTER		
	1-15		
	16-50		
	51-70		
	71-100		
	Subtotal Charges		

AS COURIER CHARGES

Other Charges

1st Carrier	
2nd Carrier	
3rd Carrier	
Tax (Offline only)	
Pickup (NON AS COURIER)	
Delivery (NON AS COURIER)	
Special Service	
Insurance	
TOTAL	

Door-To-Door Service: (800) 634-7113

10. Original Invoice

2002 North Cape

COC NE 6

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	DRO/RRO AK102/103, PAH SIM SW8270C, 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	30 day Turn-Around-Time 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: (907)753-2691 Sandra Kimbrell at (907) 353-7070
Sampler's Signature Douglas Quist		8 oz jar	3 40 ml VOA Vials	3 40 ml VOA Vials	1 Liter bottle	1 Liter bottle	3 40 ml VOA Vials	3 40 ml VOA Vials	2 500 ml Amber bottles	Comments
Date 2002	Time	Sample ID	Matrix	Total Containers						
8/19	1230	02NE88GW003	W	2					X	
8/19	1400	02NE88GW004	W	2					X	
8/19	1500	02NE88GW005	W	2					X	
8/20	1300	02NE88GW006	W	2					X	
8/20	1400	02NE88GW007	W	2					X	MS/MSD
8/20	1500	02NE88GW008	W	2					X	~~MS/MSD~~ DUP
8/19	1410	02NE88GW204	W	2					X	
									~~X~~ 2 DUP	

Relinquished by: Douglas Quist — Date 8/21/02 Time 0800

Received for Laboratory by: — Date — Time

Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2766

Cooler Temperature Upon Arrival °C

Laboratory Notified Call or Faxed

Project/Client Montgomery Watson Work Order K22 05832 KM 5936 ITS.

Cooler received on 8/22/02 and opened on 8/22/02 by KM.

1.	Were custody seals on outside of cooler? If yes, how many and where? Red Custody Tape.					Y	N
2.	Were seals intact and signature & date correct?					Y	N
3.	COC #						
	Temperature of cooler(s) upon receipt:	3.7					
	Temperature Blank:	2.9					
4.	Were custody papers properly filled out (ink, signed, etc.)?					Y	N
5.	Type of packing material present Ice packs, plastic						
6.	Did all bottles arrive in good condition (unbroken)?					Y	N
7.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?					Y	N
8.	Did all bottle labels and tags agree with custody papers?					Y	N
9.	Were the correct types of bottles used for the tests indicated?					Y	N
10.	Were all of the preserved bottles received at the lab with the appropriate pH?					~~Y~~	~~N~~
11.	Were VOA vials checked for absence of air bubbles, and if present, noted below?					Y	N
12.	Did the bottles originate from CAS/K or a branch laboratory?					Y	N
13.	Are CWA Microbiology samples received with > ½ the 24 hr. hold time remaining from collection?					~~Y~~	~~N~~
14.	Was CL2/Residual negative?					~~Y~~	~~N~~

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

Gold Streak Alaska Airlines 1850574.260120

www.ALASKAAIR.com
1-800-2ALASKA

P.O. Box 68900
Seattle, WA 98168

Airline	Origin	AIR WAYBILL Number
027-		4974 2766

Shipper to complete all shaded areas

From Shipper: MONTGOMERY WATSON AMER ANC 562 248-8883

Address: 4100 SPENARD ROAD

Phone:

City: ANCHORAGE State: AK Zip Code: 99517

I certify that this shipment does not contain any unauthorized explosives, destructive devices or hazardous materials.

Shipper's Signature X PRINTED NAME Date

Domestic ☐ International ☐

Insured Value Declared Value For Customs

Airport of Departure | First Carrier | Airport of Destination

Nature and Quantity of Goods:

Handling Information: Portland

To Consignee: (Complete Consignee information required on package)
Columbia Analytical Services, Inc ATTN: Mingta Li

Address: 1317 South 13th Ave Phone: 360/577-7222

City: Kelso State: WA Zip Code 98626

Consignee's Printed Name - Signature (Received in Good Order Except as Noted) Time a.m. p.m. Date

Airline	Origin	AIR WAYBILL Number
027-		4974 2766

Gold Streak Alaska Airlines

This is a non-negotiable AIR WAYBILL subject to the terms and conditions set forth on the reverse of shippers copy.

Total Pieces | Total Weight

MULTIPLE PIECES FOR AS FLIGHTS ONLY

Please ✓ If Live Animal ☐

Form of Payment

☐ Cash ☐ Check ☐ GBL—Attach GBL

☒ AS / QX Account Number 2744GUA3154

☐ Credit Card Number

Validata Approval (Required for all except cash and GBL)

CHECK ONE ONLY

☒ AIRPORT TO AIRPORT SERVICE

PICK-UP ONLY ☐ DELIVERY ONLY ☐ DOOR TO DOOR ☐

Executed By: Date/Time a.m. p.m.

Carrier	Flight	Destination	E.T.A.
AS			

Remarks

PCS.	WT. RANGE	RATE	CHARGE
	GSX LETTER		
	1-15		
	16-50		
	51-70		
	71-100		
	Subtotal Charges		

Other Charges

1st Carrier	
2nd Carrier	
3rd Carrier	
Tax (Offline only)	
Pickup (NON AS COURIER)	
Delivery (NON AS COURIER)	
Special Service	
Insurance	
TOTAL	

Door-To-Door Service: (800) 634-7113

10. Original Invoice

COC # 02NE7

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	DRO/RRO AK102/103, PAH SIM SW8270C, 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	30 day Turn-Around-Time 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: (907)753-2691 Sandra Kimbrell at (907) 353-7070
Sampler's Signature Douglas Quist		(1) 8oz Amber jar w/ Teflon lid	(2) 40ml Clear glass vials w/ MeOH	(2) 40ml Amber glass vials w/ MeOH	(2) 40ml Clear glass vials	(1) 125ml Plastic unpreserved	(2) 40ml vials HCl	(3) 40ml vials HCl	(1) 500ml Amber glass unpreserved	Comments
Date 2002	Time	Sample ID	Matrix	Total Containers						
8/19	1230	02NE88GW003	W	1		X				
8/19	1400	02NE88GW004	W	1		X				
8/19	1500	02NE88GW005	W	1		X				
8/20	1300	02NE88GW006	W	1		X				
8/20	1400	02NE88GW007	W	5		X			X	MS/MSD
8/20	1500	02NE88GW008	W	1		X				
8/19	1410	02NE88GW204	W	1		X				

Relinquished by: Douglas Quist	Date 8/21/02 Time 0800	Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2770		
Received for Laboratory by:	Date Time	Cooler Temperature Upon Arrival	°C	Laboratory Notified Call or Faxed

Project/Client Montgomery Watson Work Order K22 5936 05832 KM

Cooler received on 8/22/02 and opened on 8/22/02 KM.

1. Were custody seals on outside of cooler? (Y) N
   If yes, how many and where? Red Custody Tape.
2. Were seals intact and signature & date correct? mtl 10/15/02 (Y) (N)
3. COC # ____
   Temperature of cooler(s) upon receipt: 5.5
   Temperature Blank: 2.7
4. Were custody papers properly filled out (ink, signed, etc.)? (Y) N
5. Type of packing material present Ice packs, plastic
6. Did all bottles arrive in good condition (unbroken)? (Y) N
7. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (Y) N
8. Did all bottle labels and tags agree with custody papers? (Y) N
9. Were the correct types of bottles used for the tests indicated? (Y) N
10. Were all of the preserved bottles received at the lab with the appropriate pH? ~~Y~~ N
11. Were VOA vials checked for absence of air bubbles, and if present, noted below? (Y) N
12. Did the bottles originate from CAS/K or a branch laboratory? (Y) N
13. Are CWA Microbiology samples received with > ½ the 24 hr. hold time remaining from collection? ~~Y~~ N
14. Was CL2/Residual negative? ~~Y~~ N

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

Gold Streak Alaska Airlines 1850574.260120

www.ALASKAAIR.com
1-800-2ALASKA

P.O. Box 68900
Seattle, WA 98168

Airline	Origin	AIR WAYBILL Number
027-		4974 2770

From Shipper: MONTGOMERY WATSON AMER ANC

Address: 4100 SPENARD ROAD

City: ANCHORAGE State: AK Zip Code: 99517

Phone:

I certify that this shipment does not contain any unauthorized explosives, destructive devices or hazardous materials.

Shipper's Signature X PRINTED NAME Date

Domestic ☐ International ☐

Insured Value Declared Value For Customs

Airport of Departure First Carrier Airport of Destination

Nature and Quantity of Goods:

Handling Information: Portland

To Consignee: (Complete Consignee information required on package)
Columbia Analytical Services, Inc ATTN: Mingta Lin

Address: 1317 South 13th Ave

City: Kelso State: WA Zip Code 98626

Phone: 360/577-7222

Consignee's Printed Name - Signature (Received in Good Order Except as Noted)

Time a.m. p.m.

Date

Shipper to complete all shaded areas

Total Pieces | Total Weight

MULTIPLE PIECES FOR AS FLIGHTS ONLY

Please ✓ If Live Animal ☐

Form of Payment

☐ Cash ☐ Check ☐ GBL–Attach GBL

☐ AS / QX Account Number 2744065151

☐ Credit Card Number

Validata Approval (Required for all except cash and GBL)

CHECK ONE ONLY

☐ AIRPORT TO AIRPORT SERVICE

PICK-UP ONLY ☐ DELIVERY ONLY ☐ DOOR TO DOOR ☐

Executed By: Date/Time a.m. p.m.

Carrier	Flight	Destination	E.T.A.
AS			

Remarks

PCS.	WT. RANGE	RATE	CHARGE
	GSX LETTER		
	1-15		
	16-50		
	51-70		
	71-100		
	Subtotal Charges		
	AS COURIER CHARGES		
	Other Charges		
	1st Carrier		
	2nd Carrier		
	3rd Carrier		
	Tax (Offline only)		
	Pickup (NON AS COURIER)		
	Delivery (NON AS COURIER)		
	Special Service		
	Insurance		
	TOTAL		

Door-To-Door Service: (800) 634-7113

10. Original Invoice

Airline	Origin	AIR WAYBILL Number
027-		4974 2770

Gold Streak Alaska Airlines

This is a non-negotiable AIR WAYBILL subject to the terms and conditions set forth on the reverse of shippers copy.

2002 Nor. Cape Phase III RI

COC: E-8

FROM:	TO:
MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher MwH job # 1850574.260120	Severn Trent Laboratories 5755 8th Street East Tacoma, WA 98424 Phone: (253)922-2310 Fax: (253)9225047 Attn: Dawn Werner

WO #

30 day Turn-Around-Time
COELT EDD
Hardcopy Deliverable BOA Option 2

Sampler's Signature: Douglas Quist

Date 2002	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP 1 Clear glass unpreserved 8oz jar	BTEX SW8260B 3 Clear glass w/MeOH 4oz jar	GRO AK101 3 Amber glass w/sulfuric MeOH 4oz jar	Spare 1 Clear glass unpreserved 4oz jar	Sulfate EPA 300 Alkalinity EPA 300 1 Plastic unpreserved 1L bottle	BTEX SW8260B GRO AK101 3 x 40 mL w/ HCL VOA Vials	Methane, Ethane, Ethene RSK 175 2 x 40 mL w/ HCL VOA Vials	DRO/RRO AK102/103 2 x 500 ml Amber glass w/ HCL bottles	Comments
8/19	1420	02NE886W304	W	22					X	X	X	X	MS/MSD
8/19	2100	02NE88TB004	W	3						X			

Relinquished by: Douglas Quist — Date 8/21/02 — Time 0800

Received for Laboratory by: — Date — Time

Shipped Via Alaska Airlines Goldstreak Air Bill # 497 1720 4611

Cooler Temperature Upon Arrival °C

Laboratory Notified Call or Faxed

2002 Northeast Cape Phase III RI

COC # 02NE-8

Revised 1
8-27-02
BMichaan

USACE, ALASKA DISTRICT

FROM:	TO:
MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher MwH job # 1850574.260120	Severn Trent Laboratories 5755 8th Street East Tacoma, WA 998424 Phone: (253)922-2310 Fax: (253)9225047 Attn: Dawn Werner

Northeast Cape Mod 7
NPDL WO # 02-080

30 day Turn-Around-Time
COELT EDD
Hardcopy Deliverable BOA Option 2

Sampler's Signature: Douglas Quist

Date 2002	Time	Sample ID	Matrix	Total # Containers	DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP 1 Clear glass unpreserved 8oz jar	BTEX SW8260B 1 Clear glass w/MeOH 4oz jar	GRO AK101 1 Amber glass w/surrogate, MeOH w/2 vials 4oz jar	Spare 1 Clear glass unpreserved 4oz jar	Sulfate EPA 300 Alkalinity EPA 300 Plastic unpreserved 1L bottle	BTEX SW8260B GRO AK101 3 x 40 ml w/ HCL VOA Vials	Methane, Ethane, Ethene RSK 175 2 x 40 ml w/ HCL VOA Vials	DRO/RRO AK102/103 2 x 500 ml Amber glass w/ HCL bottles	Comments
8/19	1420	02NE886W304	W	22				X	X	X	X	MS/MSD
8/19	2100	02NE88TB004	W	3						X			

Relinquished by: Douglas Quist — Date 8/21/02 — Time 0800

Shipped Via Alaska Airlines Goldstreak Air Bill # 497 1720 4611

Received for Laboratory by: — Date — Time

Cooler Temperature Upon Arrival: °C

Laboratory Notified: Call or Faxed

FAX

MWH
MONTGOMERY WATSON HARZA

Date: 8-27-02

4100 Spenard Road
Anchorage, AK 99517

Tel: (907) 248-8883
Fax: (907) 248-8884

To: Down Werner

Company: Severn Trent Labs.

From: Douglas Quist

Subject: Northeast Cape Mod 7 COC

Fax No: 253-922-5047

Job No: 1850574.260120

No. of Pages: 3
(including cover)

Please See Attached Chain-of-Custodies and all Revisions.

Thank you

Douglas Quist

If you do not receive all pages, or if there are any problems with this transmission, please call our office at (907) 248-8883.

Transmission Report

Date/Time 8-27-02; 2:27PM
Local ID 2488884
Local Name MWH
Company Logo

This document was confirmed.
(reduced sample and details below)
Document Size Letter-S

FAX

MWH
MONTGOMERY WATSON HARZA

Date: 8-27-02

4100 Spenard Road
Anchorage, AK 99517

Tel: (907) 248-8883
Fax: (907) 248-8884

To: Dawn Werner
Company: Severn Trent Labs.
From: Douglas Quist

Subject: Northeast Cape Mod 7 COC
Fax No: 253-922-5047
Job No: 1850574.260120
No. of Pages: 3
(including cover)

Please See Attached Chain-of-Custodies and all Revisions.

Thank you
Douglas Quist

If you do not receive all pages, or if there are any problems with this transmission, please call our office at (907) 248-8883.

Total Pages Scanned : 3 Total Pages Confirmed : 3

No.	Doc	Remote Station	Start Time	Duration	Pages	Mode	Comments	Results
1	561	12539225047	8-27-02; 2:24PM	2'26"	3/ 3	EC		CP 14.4

Notes :

EC: Error Correct	RE: Resend	PD: Polled by Remote	MB: Receive to Mailbox
BC: Broadcast Send	MP: Multi-Poll	PG: Polling a Remote	PI: Power Interruption
CP: Completed	RM: Receive to Memory	DR: Document Removed	TM: Terminated by user
HS: Host Scan	HP: Host Print	FO: Forced Output	WT: Waiting Transfer
HF: Host Fax	HR: Host Receive	FM: Forward Mailbox Doc.	WS: Waiting Send

Alaska Airlines

GOLDSTREAK PACKAGE EXPRESS P.O. Box 68900 Seattle, WA 98168

Airline	Origin	AIR WAYBILL Number
027-	ANC	1720 4611

From Shipper: MONTGOMERY WATSON 907 248-8883

Address: 4100 SPENARD RD

City: ANCHORAGE State: AK 99517

Phone:

Zip Code:

The Federal Aviation Administration requires Alaska Airlines to inform you of the following "Shipper's Security Notification":

I certify that this shipment does not contain any unauthorized explosives, destructive devices or hazardous materials. I consent to a search of this shipment. I am aware that this endorsement and original signature, along with other shipping documents, will be retained on file until the shipment is delivered.

This is a non-negotiable AIR WAYBILL subject to the terms and conditions set forth on the reverse of shipper's copy.

Contents: Water Samples

Insured Value

Declared Value of Customs

Shipper's Signature X [signature] PRINTED NAME [illegible]

Date 8-21-02

Name of person from whom shipment was accepted IF different from shipper:

1st ID ID TYPE _____ PHOTO ID Y N

ID #

IF THE FIRST ID WAS NOT A GOVT. OR EMPLOYER ISSUED PHOTO ID

2nd ID ID TYPE _____ PHOTO ID Y N

ID #

To Consignee: (Complete Consignee information required on package)

Severn Trent Laboratories

Address: 5755 8th St. East

Phone: 253-922-2310

City: Tacoma State: WA

Zip Code: 99842

Consignee's Printed Name - Signature (Received in Good Order Except as Noted)

Time a.m. p.m.

Date

Airline	Origin	AIR WAYBILL Number
027-		1720 4611

Thank you for shipping with Alaska Airlines

Total Pieces: 1

Total Weight:

MULTIPLE PIECES FOR AS FLIGHTS ONLY

Please ✓ If Live Animal ☐

Form of Payment

☐ Cash ☐ Check ☐ GBL–Attach GBL

☒ AS / QX Account Number 27440065151

☐ Credit Card Number

Validata Approval (Required for all except cash and GBL)

CHECK ONE ONLY

☒ AIRPORT TO AIRPORT SERVICE

PCS.	WT. RANGE	RATE	CHARGE
	GSX LETTER		
	1-15		
1	16-50		72.00
	51-70		
	71-100		
	Subtotal Charges		

Executed By: Date/Time 8/21/02 a.m. 7:45 p.m.

Carrier	Flight	Destination	E.T.A.
AS	25	ANC	10:12
AS	14	SEA	3:07

Other Charges

1st Carrier	
2nd Carrier	
3rd Carrier	
Tax (Offline only)	
Pickup (NON AS COURIER)	
Delivery (NON AS COURIER)	
Special Service	
Insurance	
TOTAL	72.00

Remarks

Shipper to complete all shaded areas

Door-To-Door Service: (800) 634-7113

3. Shippers Receipt

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				DRO/RRO AK102/103, PAH SIM SW8270C, 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	30 day Turn-Around-Time 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: (907)753-2691 Sandra Kimbrell at (907) 353-7070
Sampler's Signature					8oz jar	40ml vial	40ml vial	4oz jar	1 L bottle	40 ml vial	VOA Vials	VOA Vials	Comments
Date 2002	Time	Sample ID	Matrix	Total Containers									
8/18	1700	02NE88SB015	S	2	X			X					
8/18	1720	02NE88SB016	S	2	X			X					
8/19	1310	02NE88SB017	S	3	X			X					MS/MSD DRO, RRO, PAH, PCB, Pb ONLY
8/19	1355	02NE88SB018	S	2	X			X					
8/19	1705	02NE88SB019	S	2	X			X					
8/19	1715	02NE88SB020	S	2	X			X					
8/20	1250	02NE88SB023	S	2	X			X					
8/20	1305	02NE88SB024	S	2	X			X					
8/20	1415	02NE88SB025	S	2	X			X					
8/20	~~1515~~ 1435	02NE88SB026	S	2	X			X					
8/20	~~1530~~ 1500	02NE88SB027	S	2	X			X					
8/20	1530	02NE88SB028	S	2	X			X					
8/20	1730	02NE88SB029	S	2	X			X					
Relinquished by:			Date 8-21-02		Shipped Via Alaska Airlines Goldstreak Air Bill # 1974 2744								
			Time 0815										
Received for Laboratory by:			Date		Cooler Temperature							°C	Laboratory Notified
			Time		Upon Arrival								Call or Faxed

2002 Northeast Cape
1850574.260120

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

Sampler's Signature: William A. Ermold

Date 2002	Time	Sample ID	Matrix	Total Containers	SOIL: DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP (8oz jar)	SOIL: BTEX SW8260B (4oz jar)	SOIL: GRO AK101 (4oz jar)	SOIL: Spare (8oz jar)	WATER: Sulfate EPA 300 Alkalinity EPA 300 (1 L bottles)	WATER: BTEX SW8260B GRO AK101 (3 x 40 ml VOA Vials)	WATER: Methane, Ethane, Ethene RSK 175 (3 x 40 ml VOA Vials HCL)	WATER: DRO/RRO AK102/103 (2 x 500 ml amber bottles HCl)	Comments
8-20	1735	02NE88SB030	S	2	X			X					
8-20	1805	02NE88SB031	S	2	X			X					
8-20	1905	02NE88SB032	S	2	X			X					
~~8-18~~	~~2100~~	~~02NE~~ NO											

Relinquished by: William A. Ermold — Date 8-21-02 — Time 0800

Received for Laboratory by: — Date — Time

Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2744

Cooler Temperature Upon Arrival °C

30 day Turn-Around-Time
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: (907)753-2691
Sandra Kimbrell at (907) 353-7070

Laboratory Notified
Call or Faxed

Columbia Analytical Services Inc.

Cooler Receipt And Preservation Form

CAS

Project/Client Montgomery Watson. Work Order K22 5936

Cooler received on 8/22/02 and opened on 8/22/02 by KM.

1.	Were custody seals on outside of cooler? Red Custody Tape					(Y)	N
	If yes, how many and where?						
2.	Were seals intact and signature & date correct?					(Y)	N
3.	COC #	Soil					
	Temperature of cooler(s) upon receipt:	2.5					
	Temperature Blank:	NP.					
4.	Were custody papers properly filled out (ink, signed, etc.)?					(Y)	N
5.	Type of packing material present	1 Ice packs, plastic.					
6.	Did all bottles arrive in good condition (unbroken)?					(Y)	N
7.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	Yes.				~~Y~~	~~N~~ KM
8.	Did all bottle labels and tags agree with custody papers?					(Y)	N
9.	Were the correct types of bottles used for the tests indicated?					(Y)	N
10.	Were all of the preserved bottles received at the lab with the appropriate pH?	NA				~~Y~~	~~N~~ KM.
11.	Were VOA vials checked for absence of air bubbles, and if present, noted below?					(Y)	N
12.	Did the bottles originate from CAS/K or a branch laboratory?					(Y)	N
13.	Are CWA Microbiology samples received with > ½ the 24 hr. hold time remaining from collection?					~~Y~~	~~N~~
14.	Was CL2/Residual negative?					~~Y~~	~~N~~

mtl 10/15/02

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

GoldStreak Alaska Airlines 1850574.260120

www.ALASKAAIR.com
1-800-2ALASKA

P.O. Box 68900
Seattle, WA 98168

Airline 027- | Origin | AIR WAYBILL Number 4974 2744

Shipper to complete all shaded areas

From Shipper: MONTGOMERY WATSON AMER INC 907 248-8864

Address: 4100 SPENARD ROAD

Phone:

City: ANCHORAGE AK 99517

State:

Zip Code:

I certify that this shipment does not contain any unauthorized explosives, destructive devices or hazardous materials.

Shipper's Signature X [signature] PRINTED NAME William A McConnell

Date 8-21-02

Domestic [X] International [ ]

Insured Value

Declared Value For Customs

Airport of Departure | First Carrier | Airport of Destination

Nature and Quantity of Goods: Soil samples

Handling Information: Portland

To Consignee: (Complete Consignee information required on package)
Columbia Analytical Services, Inc ATTN: Mingta Li

Address: 1317 South 13th Ave

Phone: 360/577-7222

City: Kelso

State: WA

Zip Code 98626

Consignee's Printed Name - Signature (Received in Good Order Except as Noted)

Time a.m. p.m.

Date

Airline 027- | Origin | AIR WAYBILL Number 4974 2744

GoldStreak Alaska Airlines

This is a non-negotiable AIR WAYBILL subject to the terms and conditions set forth on the reverse of shippers copy.

Total Pieces

Total Weight

MULTIPLE PIECES FOR AS FLIGHTS ONLY

Please ✓ If Live Animal ☐

Form of Payment

☐ Cash ☐ Check ☐ GBL–Attach GBL

☐ AS / QX Account Number

☐ Credit Card Number

Validata Approval (Required for all except cash and GBL)

CHECK ONE ONLY

[X] AIRPORT TO AIRPORT SERVICE

PICK-UP ONLY [ ] DELIVERY ONLY [ ] DOOR TO DOOR [ ]

Executed By: Date/Time a.m. p.m.

Carrier	Flight	Destination	E.T.A.
AS			

Remarks

PCS.	WT. RANGE	RATE	CHARGE
	GSX LETTER		
	1-15		
	16-50		
1	51-70	17	
	71-100		
	Subtotal Charges		
	AS COURIER CHARGES		
	Other Charges		
	1st Carrier		
	2nd Carrier		
	3rd Carrier		
	Tax (Offline only)		
	Pickup (NON AS COURIER)		
	Delivery (NON AS COURIER)		
	Special Service		
	Insurance		
	TOTAL		

Door-To-Door Service: (800) 634-7113

10. Original Invoice

COC # 02NE 10

pag 1 of 2

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	DRO/RRO AK102/103, PAH SIM SW8270C, 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	30 day Turn-Around-Time 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: (907)753-2691 Sandra Kimbrell at (907) 353-7070
Sampler's Signature: Wallace A Kimbrell		1 Clear glass unpreserved	1 Clear glass s/w/MeOH	1 Amber glass w/ surrogate w/ MeOH	1 Clear glass unpreserved	Plastic unpreserved	3 x 40 ml w/ HCL	2 x 40 ml w/ HCL	2 x 500 ml Amber glass w/ HCL	Comments
Date 2002	Time	Sample ID	Matrix	Total Containers	8oz jar	4oz jar	4oz jar	4oz jar	1 L bottle	VOA Vials	VOA Vials	bottles	
8/18	1700	02NE88SB015	S	2		X	X						
8/18	1720	02NE88SB016	S	6 MS		X	X						MS/MSD GRO/BTEX
8/19	1310	02NE88SB017	S	2		X	X						
8/19	1355	02NE88SB018	S	2		X	X						
8/19	1705	02NE88SB019	S	2		X	X						
8/19	1715	02NE88SB020	S	2		X	X						
8/20	1250	02NE88SB023	S	2		X	X						
8/20	1305	02NE88SB024	S	2		X	X						
8/20	1415	02NE88SB025	S	2		X	X						50ml of MeOH used
8/20	1435	02NE88SB026	S	2		X	X						
8/20	1505	02NE88SB027	S	2		X	X						
8/20	1530	02NE88SB028	S	2		X	X						
8/20	1730	02NE88SB029	S	2		X	X						

Relinquished by: Wallace A Kimbrell — Date 8/21/02 — Time 0800

Received for Laboratory by: — Date — Time

Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2733

Cooler Temperature Upon Arrival °C

Laboratory Notified Call or Faxed

2002 No Cape

COC NE10

Pg 2 of 2

K2205832

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	DRO/RRO AK102/103, PAH SIM SW8270C, 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	30 day Turn-Around-Time 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: (907)753-2691 Sandra Kimbrell at (907) 353-7070
Sampler's Signature: William A Ermold		1 Clear glass unpreserved	1 Clear glass w/MeOH	1 Amber glass w/nitrogen & MeOH	1 Clear glass unpreserved	Plastic unpreserved	3x40 ml w/ HCL	2x40 ml w/ HCL	2x500 ml Amber glass w/ HCL	Comments
Date 2002	Time	Sample ID	Matrix	Total containers	8oz jar	4oz jar	4oz jar	4oz jar	1L bottle	VOA Vials	VOA Vials	bottles	
8-20	1735	02-NE-SS-SB-C3C	S	2		X	X						
8-20	1850	02-NE-SS-SB-C3I	S	2		X	X	with					
8-20	1905	02-NE-SS-SB-C3J	S	2		X	X	8/23/02					
8-18	2100	02-NE-SS-TB-CC5	S	2		X	X	Checked all analyses.					

Relinquished by: William A Ermold	Date 8-21-02	Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2733	
	Time 0830		
Received for Laboratory by: Jean Olson	Date 8/22/02	Cooler Temperature Upon Arrival	°C
	Time 1530		Laboratory Notified Call or Faxed

Columbia Analytical Services Inc.

Cooler Receipt And Preservation Form

Project/Client KM Montgomery Watson Work Order K22 05832 5936 CAS. KM

Cooler received on 8/22/02 and opened on 8/22/02 by KM.

1.	Were custody seals on outside of cooler? If yes, how many and where? Red Custody Tape.					(Y)	N
2.	Were seals intact and signature & date correct?					mth 10/15/02 (Y)	(N)
3.	COC #	Soil					
	Temperature of cooler(s) upon receipt:	5.5					
	Temperature Blank:	1.0					
4.	Were custody papers properly filled out (ink, signed, etc.)?					(Y)	N
5.	Type of packing material present Ice packs, plastic						
6.	Did all bottles arrive in good condition (unbroken)?					(Y)	N
7.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?					Y	(N)
8.	Did all bottle labels and tags agree with custody papers?					(Y)	N
9.	Were the correct types of bottles used for the tests indicated?					(Y)	N
10.	Were all of the preserved bottles received at the lab with the appropriate pH?					~~Y~~	N
11.	Were VOA vials checked for absence of air bubbles, and if present, noted below?					(Y)	N
12.	Did the bottles originate from CAS/K or a branch laboratory?					(Y)	N
13.	Are CWA Microbiology samples received with > ½ the 24 hr. hold time remaining from collection?					~~Y~~	~~N~~
14.	Was CL2/Residual negative?					Y	N

Explain any discrepancies: (4) 4oz Methanol Soil jars - no Sample ID. 1km

16 MB/MSD on lids Id'd as ~~D2NE88550116~~ D2NE88550116 by 16 on lid.

RESOLUTION:

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

GoldStreak Alaska Airlines 1850574.260120

www.ALASKAAIR.com
1-800-2ALASKA

P.O. Box 68900
Seattle, WA 98168

Airline	Origin	AIR WAYBILL Number
027-		4974 2733

Shipper to complete all shaded areas

From Shipper: MONTGOMERY WATSON ARES INC 907 248-8833

Address: 4100 SPENARD ROAD

City: ANCHORAGE State: AK Zip Code: 99517

I certify that this shipment does not contain any unauthorized explosives, destructive devices or hazardous materials.

Shipper's Signature X [signature] PRINTED NAME [illegible] A Caudill Date 5-21-02

Domestic ☒ International ☐

Insured Value | Declared Value For Customs

Airport of Departure | First Carrier | Airport of Destination PDX

Nature and Quantity of Goods: Soil Samples

Handling Information: Portland

To Consignee: (Complete Consignee information required on package) Columbia Analytical Services, Inc ATTN: Ningta Li

Address: 1317 South 13th Ave Phone: 360/577-7222

City: Kelso State: WA Zip Code 98626

Consignee's Printed Name - Signature (Received in Good Order Except as Noted) Time a.m. p.m. Date

Airline	Origin	AIR WAYBILL Number
027-		4974 2733

GoldStreak Alaska Airlines

This is a non-negotiable AIR WAYBILL subject to the terms and conditions set forth on the reverse of shippers copy.

Total Pieces | Total Weight

MULTIPLE PIECES FOR AS FLIGHTS ONLY

Please ✓ If Live Animal ☐

Form of Payment

☐ Cash ☐ Check ☐ GBL–Attach GBL

☐ AS / QX Account Number [illegible]

☐ Credit Card Number

Validata Approval (Required for all except cash and GBL)

CHECK ONE ONLY

☒ AIRPORT TO AIRPORT SERVICE

PICK-UP ONLY ☐ DELIVERY ONLY ☐ DOOR TO DOOR ☐

Executed By: Date/Time a.m. p.m.

Carrier	Flight	Destination	E.T.A.
AS			

Remarks

PCS.	WT. RANGE	RATE	CHARGE
	GSX LETTER		
	1-15		
	16-50		
	51-70		
	71-100		
	Subtotal Charges		

AS COURIER CHARGES

Other Charges

1st Carrier	
2nd Carrier	
3rd Carrier	
Tax (Offline only)	
Pickup (NON AS COURIER)	
Delivery (NON AS COURIER)	
Special Service	
Insurance	
TOTAL	

Door-To-Door Service: (800) 634-7113

10. Original Invoice

FROM:
MWH 4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
ATTN: Johanna Dreher
MwH job # 1850574.260120

TO:
~~Severn Trent Laboratories 5755~~
~~8th Street East~~
~~Tacoma, WA 98424~~
~~Phone: (253)922-2310~~
~~Fax: (253)9223047~~
~~Attn: Dawn Werner~~
Columbia Analytical Services
1317 South 13TH AVE
Kelso, WA
98626
360-577-7222

Sampler's Signature: Douglas Quist

Date 2002	Time	SampleID	Matrix	Total # of Containers	DRO/RRO AK102/103, PAH SIM SW8270C, 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	Comments
					1 Glass unpreserved 1000 ml	3 Cleanups w/MeOH 40 ml VOA	2 Amberglass w/MeOH 40 ml VOA	1 Glass unpreserved 40 ml VOA	1 Plastic unpreserved 1 liter	3 x 40 ml w/ HCL VOA Vials	2 x 40 ml w/ HCL VOA Vials	2 x 500 ml Amberglass w/ HCL 500ml	
8/21	1500	02NE88GWD009	N	8					X	X	X	X	
8/21	1400	02NE88GWD010	W	8					X	X	X	X	
8/19	2100	02NE88EB004	W	5						X		X	
8/20	2100	02NE88EB005	W	5						X		X	
8/19	2100	02NE88TB006	W	3						X			

30 day Turn-Around-Time
COELT EDD
Hardcopy Deliverable BOA Option 2

Relinquished by: Douglas Quist
Date 8/22/02
Time 0800

Received for Laboratory by:
Date
Time

Shipped Via Alaska Airlines Goldstreak Air Bill # 4218 4660

Cooler Temperature Upon Arrival °C

Laboratory Notified Call or Faxed

Cooler Receipt And Preservation Form

Project/Client MWH. Work Order K22 05829

Cooler received on 8/23/02 and opened on 8/23/02 by Km.

1. Were custody seals on outside of cooler? Y N
   If yes, how many and where? Custody Tape.
2. Were seals intact and signature & date correct? ~~N/A~~ mtl 10/15/02 ~~Y N~~ Km.
3. COC #

Temperature of cooler(s) upon receipt:	3.5				
Temperature Blank:	5.5				

4. Were custody papers properly filled out (ink, signed, etc.)? Y N
5. Type of packing material present Ice packs.
6. Did all bottles arrive in good condition (unbroken)? Y N
7. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? Y N
8. Did all bottle labels and tags agree with custody papers? Y N
9. Were the correct types of bottles used for the tests indicated? Y N
10. Were all of the preserved bottles received at the lab with the appropriate pH? ~~Y N~~
11. Were VOA vials checked for absence of air bubbles, and if present, noted below? Y N
12. Did the bottles originate from CAS/K or a branch laboratory? Y N
13. Are CWA Microbiology samples received with > ½ the 24 hr. hold time remaining from collection? ~~Y N~~
14. Was CL2/Residual negative? ~~Y N~~

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

GoldStreak Alaska Airlines 1850574.260120 1850634.030102

www.ALASKAAIR.com
1-800-2ALASKA

P.O. Box 68900
Seattle, WA 98168

Airline	Origin	AIR WAYBILL Number
027-		4218 4660

From Shipper:

Address: | Phone:

City: | State: | Zip Code:

I certify that this shipment does not contain any unauthorized explosives, destructive devices or hazardous materials.

Shipper's Signature PRINTED NAME X | Date

Domestic ☐ International ☐

Insured Value | Declared Value For Customs

Airport of Departure | First Carrier | Airport of Destination

Nature and Quantity of Goods:

Handling Information:
Portland

To Consignee: (Complete Consignee information required on package)
Columbia Analytical Services, Inc ATTN: Mingta Lin

Address: 1317 South 13th Ave | Phone: 360/577-7222

City: Kelso | State: WA | Zip Code 98626

Consignee's Printed Name - Signature (Received in Good Order Except as Noted) | Time a.m. p.m. | Date

Airline	Origin	AIR WAYBILL Number
027-		4218 4660

GoldStreak Alaska Airlines

This is a non-negotiable AIR WAYBILL subject to the terms and conditions set forth on the reverse of shippers copy.

Shipper to complete all shaded areas

Total Pieces | Total Weight

MULTIPLE PIECES FOR AS FLIGHTS ONLY

Please ✓ If Live Animal ☐

Form of Payment

☐ Cash ☐ Check ☐ GBL—Attach GBL

☒ AS / QX Account Number

☐ Credit Card Number

Validata Approval (Required for all except cash and GBL)

CHECK ONE ONLY

☑ AIRPORT TO AIRPORT SERVICE

PICK-UP ONLY ☐ | DELIVERY ONLY ☐ | DOOR TO DOOR ☐

Executed By: Date/Time a.m. p.m.

Carrier	Flight	Destination	E.T.A.
AS			

Remarks

PCS.	WT. RANGE	RATE	CHARGE
	GSX LETTER		
	1-15		
	16-50		
	51-70		
	71-100		
	Subtotal Charges		

AS COURIER CHARGES

Other Charges

1st Carrier	
2nd Carrier	
3rd Carrier	
Tax (Offline only)	
Pickup (NON AS COURIER)	
Delivery (NON AS COURIER)	
Special Service	
Insurance	
TOTAL	

Door-To-Door Service: (800) 634-7113

10. Original Invoice

2002 No t Cape

COC # 02NE 13 DP
12

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				DRO/RRO AK102/103, PAH SIM SW8270C, 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	30 day Turn-Around-Time 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: (907)753-2691 Sandra Kimbrell at (907) 353-7070
Sampler's Signature: [signature] DP													
8/21	1500	02NE88SB033	S	4 2	X	X	X	X					
8/21	1510	02NE88SB034	S	4 2	X	X	X	X					
8/21	1515	02NE88SB234	S	4 2	X	X	X	X					
8/21	1555	02NE88SB035	S	4 2	X	X	X	X					
8/21	1605	02NE88SB036	S	4 2	X	X	X	X					
8/21	1607	02NE88SB236	S	4 2	X	X	X	X DP					
8/22	1400	02NE88SB037	S	4 2	X DP	X	X	X					
8/22	1405	02NE88SB237	S	4 2	X	X	X	X					
8/22	1410	02NE88SB038	S	4 2	X	X	X	X					
8/22	1935	02NE88SB039	S	4 2	X	X	X	X					
8/22	1440	02NE88SB239	S	4 2	X	X	X	X					
8/20	1950	02NE88SB040	S	4 2	X	X	X	X					
8/21	2100	02NE88TB007	S	2	2	X	X	2					

Relinquished by: [signature]	Date 8/25/02 Time 2315	Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2696	
Received for Laboratory by:	Date Time	Cooler Temperature Upon Arrival °C	Laboratory Notified Call or Faxed

TRANSMISSION REPORT

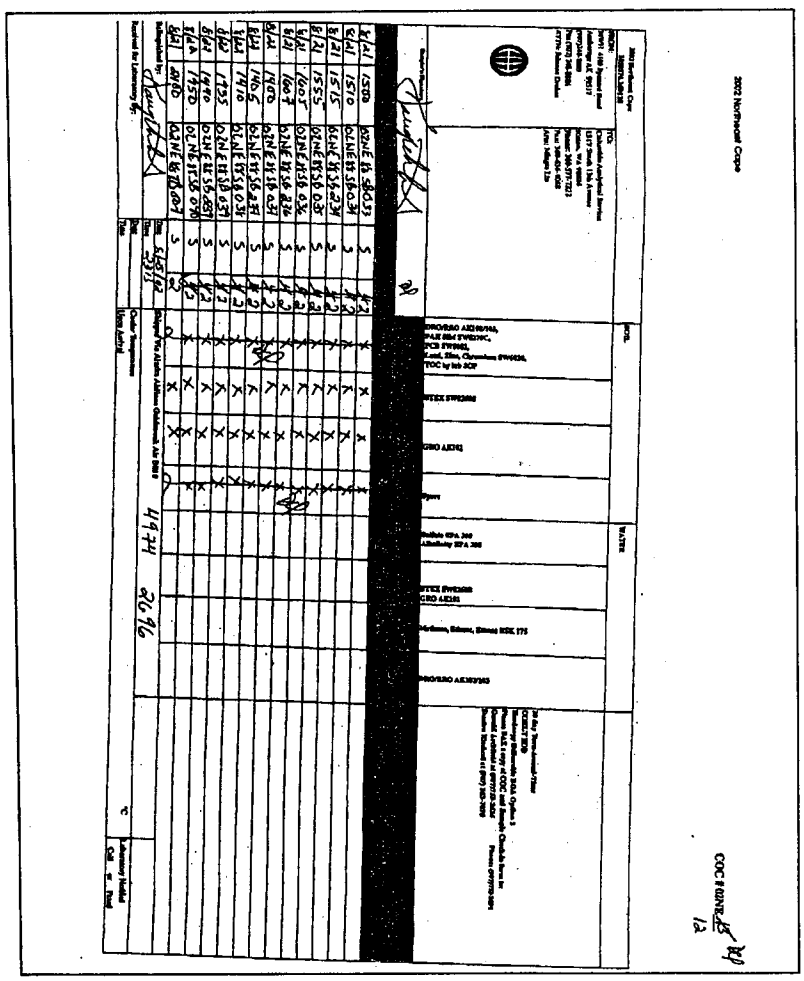
DATE/TIME 8-26- 2 7:32 AM
LOCAL TERMINAL ID 9072488884
LOCAL NAME MWA
CO. LOGO

PAGES SCANNED
2

NO	FILE	REMOTE STATION	START TIME	DURAT.	#	COMMENT	RESULT
1	087	13606361068	8-26- 7:30 AM	1' 34"	2		OK ECM

This document was confirmed.
(Reduced sample below-see details above)

Size LT



Cooler Receipt And Preservation Form CONTINUING CAS

Project/Client Montgomery Watson Work Order K22 05936

Cooler received on 8/26/02 and opened on 8/26/02 by SM

.	Were custody seals on outside of cooler? If yes, how many and where? Red Custody Tape					(Y)	N
2.	Were seals intact and signature & date correct?					with 9/25/02 (Y)	(N)
3.	COC #						
	Temperature of cooler(s) upon receipt:	2.0					
	Temperature Blank:	-0.4					
4.	Were custody papers properly filled out (ink, signed, etc.)?					(Y)	N
5.	Type of packing material present Ice packs, plastic.						
6.	Did all bottles arrive in good condition (unbroken)?					(Y)	N
7.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?					(Y)	N
8.	Did all bottle labels and tags agree with custody papers? See Other CRF.					~~Y~~	~~N~~
9.	Were the correct types of bottles used for the tests indicated?					(Y)	N
10.	Were all of the preserved bottles received at the lab with the appropriate pH?					~~Y~~	~~N~~
11.	Were VOA vials checked for absence of air bubbles, and if present, noted below?					~~Y~~	~~N~~
12.	Did the bottles originate from CAS/K or a branch laboratory?					(Y)	N
13.	Are CWA Microbiology samples received with > ½ the 24 hr. hold time remaining from collection?					~~Y~~	~~N~~
14.	Was CL2/Residual negative?					~~Y~~	~~N~~

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

Gold Streak Alaska Airlines 1850574.260120

www.ALASKAAIR.com
1-800-2ALASKA

P.O. Box 68900
Seattle, WA 98168

Airline	Origin	AIR WAYBILL Number
027-		4974 2696

From Shipper: MONTGOMERY WATSON AMER INC 907 248-8851

Address: 4100 SPENARD ROAD

Phone:

City: ANCHORAGE AK 99517

State:

Zip Code:

I certify that this shipment does not contain any unauthorized explosives, destructive devices or hazardous materials.

Shipper's Signature X PRINTED NAME Date 4/25/

Domestic ☐ International ☐

Insured Value

Declared Value For Customs

Airport of Departure | First Carrier | Airport of Destination

Nature and Quantity of Goods:

Handling Information: Portland

To Consignee: (Complete Consignee information required on package) Columbia Analytical Services, Inc ATTN: Mingta Li

Address: 1317 South 13th Ave

Phone: 360/577-7222

City: Kelso

State: WA

Zip Code 98626

Consignee's Printed Name - Signature (Received in Good Order Except as Noted)

Time a.m. p.m.

Date

Airline	Origin	AIR WAYBILL Number
027-		4974 2696

Gold Streak Alaska Airlines

This is a non-negotiable AIR WAYBILL subject to the terms and conditions set forth on the reverse of shippers copy.

Total Pieces

Total Weight

MULTIPLE PIECES FOR AS FLIGHTS ONLY

Please ✓ If Live Animal ☐

Form of Payment

☐ Cash ☐ Check ☐ GBL–Attach GBL

☐ AS / QX Account Number 2744066151

☐ Credit Card Number

Validata Approval (Required for all except cash and GBL)

CHECK ONE ONLY

☑ AIRPORT TO AIRPORT SERVICE

PICK-UP ONLY ☐ DELIVERY ONLY ☐ DOOR TO DOOR ☐

Executed By: Date/Time 4/25 a.m. 2:32 p.m.

Carrier	Flight	Destination	E.T.A.
AS	100	PDX	SUP

Remarks

PCS.	WT. RANGE	RATE	CHARGE
	GSX LETTER		
	1-15		
1	16-50		25
	51-70		
	71-100		
	Subtotal Charges		

AS COURIER CHARGES

Other Charges

1st Carrier	
2nd Carrier	
3rd Carrier	
Tax (Offline only)	
Pickup (NON AS COURIER)	
Delivery (NON AS COURIER)	
Special Service	
Insurance	
TOTAL	25.00

Shipper to complete all shaded areas

Door-To-Door Service: (800) 634-7113

10. Original Invoice

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				DRO/RRO AK102/103, PAH SIM SW8270C, 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	30 day Turn-Around-Time 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: (907)753-2691 Sandra Kimbrell at (907) 353-7070
Sampler's Signature: Douglas Quist													
8/21	1500	02NE88SB033	S	42	X	X	X	X					
8/21	1510	02NE88SB034	S	42	X	X	X	X					
8/21	1515	02NE88SB234	S	42	X	X	X	X					
8/21	1555	02NE88SB035	S	42	X	X	X	X					
8/21	1605	02NE88SB036	S	42	X	X	X	X					
8/21	1607	02NE88SB236	S	42	X	X	X	X					
8/22	1400	02NE88SB037	S	42	X	X	X	X					
8/22	1405	02NE88SB237	S	42	X	X	X	X					
8/22	1410	02NE88SB038	S	42	X	X	X	X					
8/22	1935	02NE88SB039	S	42	X	X	X	X					
8/22	1940	02NE88SB239	S	42	X	X	X	X					
8/22	1950	02NE88SB040	S	42	X	X	X	X					
8/21	2100	02NE88TB007	S	2		X	X						

Relinquished by: Douglas Quist	Date 8/25/02	Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2702	
Received for Laboratory by:	Time 0315	Cooler Temperature Upon Arrival	°C
	Date		Laboratory Notified Call or Faxed
	Time		

Cooler Receipt And Preservation Form (COC# 02NE13. CD.

Project/Client Montgomery Watson Work Order, K22 05936

Cooler received on 8/22/02 and opened on 8/26/02 by KM.

1.	Were custody seals on outside of cooler? If yes, how many and where? Red Custody Tape.					(Y)	N
2.	Were seals intact and signature & date correct?					(Y) with 8/26/02	(N)
3.	COC #						
	Temperature of cooler(s) upon receipt:	4.9					
	Temperature Blank:	0.0					
4.	Were custody papers properly filled out (ink, signed, etc.)?					(Y)	N
5.	Type of packing material present 1 Ice packs, plastic						
6.	Did all bottles arrive in good condition (unbroken)?					(Y)	N
7.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?					(Y)	N
8.	Did all bottle labels and tags agree with custody papers?					Y	(N)
9.	Were the correct types of bottles used for the tests indicated?					(Y)	N
10.	Were all of the preserved bottles received at the lab with the appropriate pH?					~~Y~~	~~N~~
11.	Were VOA vials checked for absence of air bubbles, and if present, noted below?					~~Y~~	~~N~~
12.	Did the bottles originate from CAS/K or a branch laboratory?					(Y)	N
13.	Are CWA Microbiology samples received with > ½ the 24 hr. hold time remaining from collection?					~~Y~~	~~N~~
14.	Was CL2/Residual negative?					~~Y~~	~~N~~

Explain any discrepancies: 1 4oz Methanol jar 02NE88550 33. Id'd as 02NE885B033 by times. 1 4oz methanol jar without Sample Id. Id'd as 02NE885B234 by '234' on lid and proc. of elimination.

RESOLUTION:

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

CRFREV.DOC12/24/01

GoldStreak Alaska Airlines 1950574.260120

www.ALASKAAIR.com
1-800-2ALASKA

P.O. Box 68900
Seattle, WA 98168

Airline	Origin	AIR WAYBILL Number
027-		4974 2700

From Shipper: MONTGOMERY WATSON AMER ANC 907 248-8883

Address: 4100 SPENARD ROAD | Phone:

City: ANCHORAGE AK 99517 | State: | Zip Code:

I certify that this shipment does not contain any unauthorized explosives, destructive devices or hazardous materials.

Shipper's Signature X PRINTED NAME | Date

Domestic ☐ International ☐

Insured Value | Declared Value For Customs

Airport of Departure | First Carrier | Airport of Destination

Nature and Quantity of Goods:

Handling Information: Portland

To Consignee: (Complete Consignee information required on package)
Columbia Analytical Services, Inc ATTN: Mingta Li

Address: 1317 South 13th Ave | Phone: 360/577-7222

City: Kelso | State: WA | Zip Code 98626

Consignee's Printed Name - Signature (Received in Good Order Except as Noted) | Time a.m. p.m. | Date

Airline	Origin	AIR WAYBILL Number
027-		4974 2700

GoldStreak Alaska Airlines

This is a non-negotiable AIR WAYBILL subject to the terms and conditions set forth on the reverse of shippers copy.

Shipper to complete all shaded areas

Total Pieces	Total Weight
1	

MULTIPLE PIECES FOR AS FLIGHTS ONLY

Please ✓ If Live Animal ☐

Form of Payment

☐ Cash ☐ Check ☐ GBL–Attach GBL

☐ AS / QX Account Number 27460063351

☐ Credit Card Number

Validata Approval (Required for all except cash and GBL)

CHECK ONE ONLY

☒ AIRPORT TO AIRPORT SERVICE

PICK-UP ONLY ☐ DELIVERY ONLY ☐ DOOR TO DOOR ☐

Executed By: Date/Time 05 5/25 a.m. 3?? p.m.

Carrier	Flight	Destination	E.T.A.
AS	103	PDX	348

Remarks

PCS.	WT. RANGE	RATE	CHARGE
	GSX LETTER		
	1-15		
1	16-50		35
	51-70		
	71-100		
	Subtotal Charges		

AS COURIER CHARGES

Other Charges

1st Carrier	
2nd Carrier	
3rd Carrier	
Tax (Offline only)	
Pickup (NON AS COURIER)	
Delivery (NON AS COURIER)	
Special Service	
Insurance	
TOTAL	35.00

Door-To-Door Service: (800) 634-7113

10. Original Invoice

COC # 02NE-14

FROM:	TO:
MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher MwH job # 1850574.260120	Severn Trent Laboratories 5755 8th Street East Tacoma, WA 998424 Phone: (253)922-2310 Fax: (253)9225047 Attn: Dawn Werner

Sampler's Signature: Douglas Duvet

Date 2002	Time	Sample ID	Matrix	Containers	DRO/RRO AK102/103, PAH SIM SW8270C, 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	30 day Turn-Around-Time COELT EDD Hardcopy Deliverable BOA Option 2
					1 Amber 1 L H2SO4	3 x 40 ml w/ HCl	3 x 40 ml w/ HCl	1 Amber 1 L Unpres.	1 Plastic Unpres.	3 x 40 ml w/ HCl	3 x 40 ml w/ HCl	1 Amber 1 L H2SO4	
8/17	1110	02NE88SB 306	S	4	X	X	X	X					
8/21	1600	02NE88SB 335	S	12	X	X	X	X					MS/MSD
8/22	1415	02NE88SB 338	S	4	X	X	X	X					
8/22	1955	02NE88SB 340	S	4	X	X	X	X					
8/17	2100	02NE88TB 008	S	2	X DL	X	X						

Relinquished by: Douglas Duvet — Date 8/25/02, Time 2315

Received for Laboratory by: — Date, Time

Shipped Via Alaska Airlines Goldstreak Air Bill # 4218 4796

Cooler Temperature Upon Arrival: °C

Laboratory Notified: Call or Faxed

Revision 1

USAED, ALASKA DISTRICT
NORTHEAST CAPE MOD 7
NPDL WO# 02-080

FROM:	TO:
MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher MwH job # 1850574.260120	Severn Trent Laboratories 5755 8th Street East Tacoma, WA 998424 Phone: (253)922-2310 Fax: (253)9225047 Attn: Dawn Werner

30 day Turn-Around-Time
COELT EDD
Hardcopy Deliverable BOA Option 2

Sampler's Signature: Douglas Quist

Date 2002	Time	Sample ID	Matrix	# Containers	DRO/RRO AK102/103, PAH SIM SW8270C, 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	
8/17	1110	02NE88SB 306	S	4	X	X	X	X					
8/21	1600	02NE88SB 335	S	12	X	X	X	X					MS/MSD
8/22	1415	02NE88SB 338	S	4	X	X	X	X					
8/22	1955	02NE88SB 340	S	4	X	X	X	X					
8/17	2100	02NE88TB 008	S	2	X[illegible]	X	X						

Relinquished by: Douglas Quist — Date 8/25/02 — Time 2315

Received for Laboratory by: — Date — Time

Shipped Via Alaska Airlines Goldstreak Air Bill # 4218 4796

Cooler Temperature Upon Arrival °C

Laboratory Notified Call or Faxed

FAX

MWH
MONTGOMERY WATSON HARZA

Date:

4100 Spenard Road
Anchorage, AK 99517

Tel: (907) 248-8883
Fax: (907) 248-8884

To: Dawn Werner

Company: STL

From: Douglas Quist

Subject: COC

Fax No: 253-922-5047

Job No:

No. of Pages: 2
(including cover)

Please see attached COC for edits. All analyses are now checked. If you have any questions please call me at 907-266-1148.

Doug Quist

If you do not receive all pages, or if there are any problems with this transmission, please call our office at (907) 248-8883.

Transmission Report

Date/Time 8-26-02; 9:15AM
Local ID 2488884
Local Name MWH
Company Logo

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(reduced sample and details below)
Document Size Letter-S

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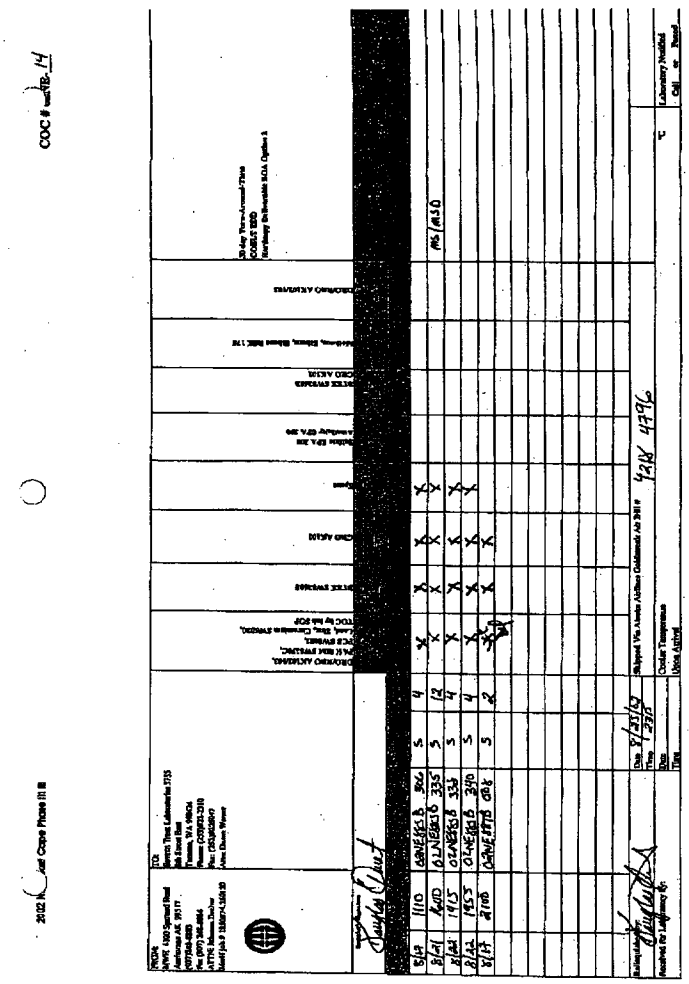
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Notes :
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E Broadcast Send
CH Completed
HS: Host Scan
HF: Host Fax
RE: Resend
MP: Multi-Poll
RM: Receive to Memory
HP: Host Print
HR: Host Receive
PD: Polled by Remote
PG: Polling a Remote
DR: Document Removed
FO: Forced Output
FM: Forward Mailbox Doc.
MB: Receive to Mailbox
PI: Power Interruption
TM: Terminated by user
WT: Waiting Transfer
WS: Waiting Send

Transmission Report

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Company Logo

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RM: Receive to Memory
HP: Host Print
HR: Host Receive
PD: Polled by Remote
PG: Polling a Remote
DR: Document Removed
FO: Forced Output
FM: Forward Mailbox Doc.
MB: Receive to Mailbox
PI: Power Interruption
TM: Terminated by user
WT: Waiting Transfer
WS: Waiting Send

TRANSMISSION REPORT

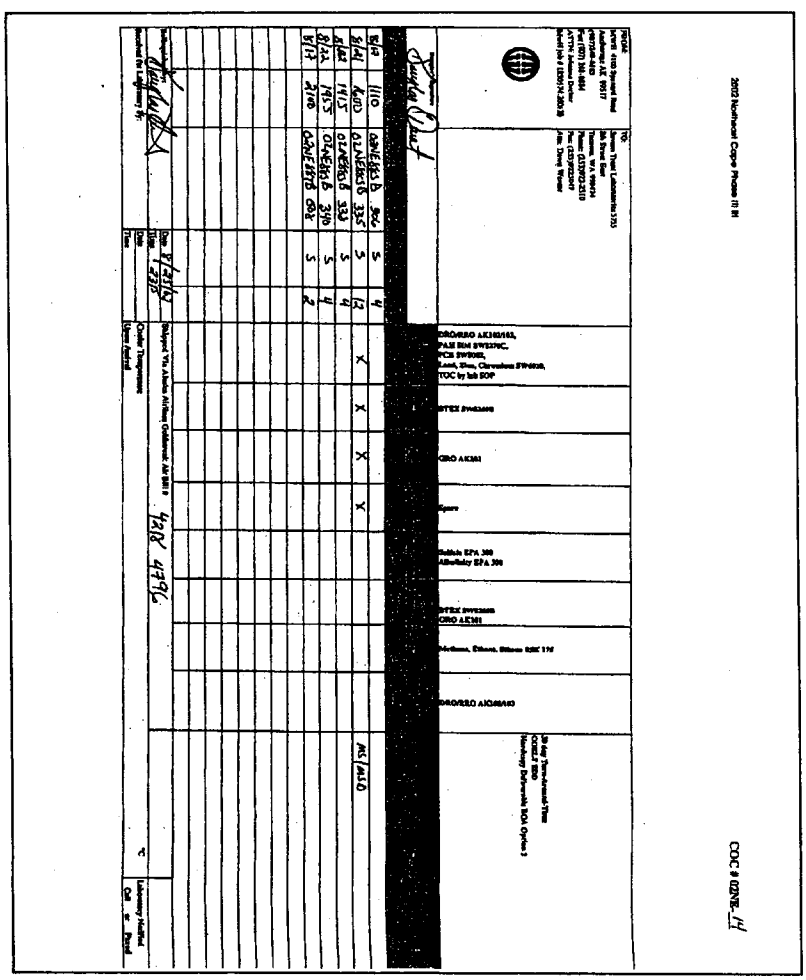
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CO. LOGO

PAGES SCANNED
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(Reduced sample below-see details above)

Size LT



GoldStreak Alaska Airlines 1850574.260120

www.ALASKAAIR.com
1-800-2ALASKA

P.O. Box 68900
Seattle, WA 98168

Airline	Origin	AIR WAYBILL Number
027-		4218 4796

From Shipper:

Address: | Phone:

City: | State: | Zip Code:

I certify that this shipment does not contain any unauthorized explosives, destructive devices or hazardous materials.

Shipper's Signature X | PRINTED NAME | Date

Domestic ☐ | International ☐

Insured Value | Declared Value For Customs

Airport of Departure | First Carrier | Airport of Destination

Nature and Quantity of Goods:

Handling Information:

To Consignee: (Complete Consignee information required on package)

Address: | Phone:

City: | State: | Zip Code

Consignee's Printed Name - Signature (Received in Good Order Except as Noted) | Time a.m. p.m. | Date

Airline	Origin	AIR WAYBILL Number
027-		4218 4796

GoldStreak Alaska Airlines

This is a non-negotiable AIR WAYBILL subject to the terms and conditions set forth on the reverse of shippers copy.

Shipper to complete all shaded areas

Total Pieces	Total Weight
1	4 lb

MULTIPLE PIECES FOR AS FLIGHTS ONLY

Please ✓ If Live Animal ☐

Form of Payment

☐ Cash ☐ Check ☐ GBL–Attach GBL

☑ AS / QX Account Number

☐ Credit Card Number

Validata Approval (Required for all except cash and GBL)

CHECK ONE ONLY

☑ AIRPORT TO AIRPORT SERVICE

PICK-UP ONLY ☐ | DELIVERY ONLY ☐ | DOOR TO DOOR ☐

Executed By: Date/Time 04/15 3:25 a.m. p.m.

Carrier	Flight	Destination	E.T.A.
AS	1m	SEA	SP

Remarks

PCS.	WT. RANGE	RATE	CHARGE
	GSX LETTER		
	1-15		
1	16-50		
	51-70		
	71-100		
Subtotal Charges			

AS COURIER CHARGES

Other Charges

1st Carrier	
2nd Carrier	
3rd Carrier	
Tax (Offline only)	
Pickup (NON AS COURIER)	
Delivery (NON AS COURIER)	
Special Service	
Insurance	
TOTAL	5.70

Door-To-Door Service: (800) 634-7113

10. Original Invoice

FROM:	TO:	Sieve Analysis ASTM D-422 Specific Gravity ASTM D-854 Moisture Content ASTM D-2216 1 x 2 gal. ziplock	Dry Bulk Density ASTM D-2937 Hydraulic Conductivity ASTM D-4511 Soil Porosity - Calculated 1 x Brass Sleeve			24 Hour Turn-Around-Time COELT EDD Hardcopy Deliverable BOA Option 2
MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher MWH job # 1850574.260120	R&M Consultants 9101 Vanguard Drive Anchorage, AK 99507 fax: 360-577-7222 phone: 907-522-3403 Attn: Dave Johnson					

Sampler's Signature: Douglas Dreer

Date 2002	Time	Sample ID	Matrix	Total Containers	Cool to 4 degrees C				Comments	
8/18	1140	02NE88SB041	S	2	✓	✓			88-6	4-6'
8/19	1315	02NE88SB042	S	2	✓	✓			88-9	10-12'
8/20	1900	02NE88SB043	S	2	✓	✓			88-16	7-9'
8/21	1605	02NE88SB044	S	2	✓	✓			88-18	9-11'

Relinquished by: Douglas Dreer — Date 8/20/02, Time 1100

Received for Laboratory by: [illegible] — Date 8-21-02, Time 1100

Shipped Via ~~Alaska Airlines, Goldstreak, Air Bill #~~ Hand Delivered

Cooler Temperature Upon Arrival: °C

Laboratory Notified: Call or Faxed

MWH
MONTGOMERY WATSON HARZA

LABORATORY NOTIFICATION OF SHIPMENT

Northeast Cape 1850574.260120

TO: CAS
ATTN: Mingta Lin
FAX: **360-636-1068**

PHONE: 360-577-7222 left message 1015 8/19/02

COOLERS 3
DATE 8-19-2002

SAMPLES WERE SENT TO **Seattle** **Portland**

ALASKA AIRLINES FLIGHT # 100
ESTIMATED ARRIVAL TIME 6Am 8/20
Goldstreak airbill number 4974 2711
4974 2722
4974 2803

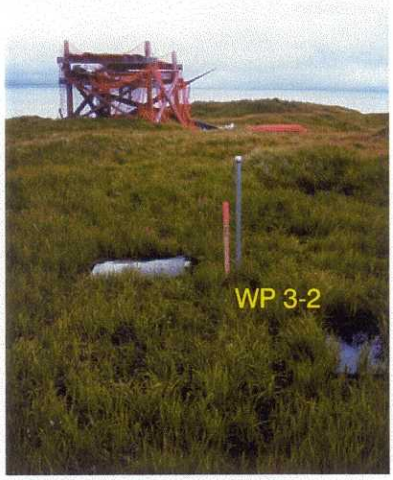
PLEASE PICK UP AT ALASKA AIRLINES GOLDSTREAK

COC#/Cooler ID 02NE1, 02NE2, 02NE3

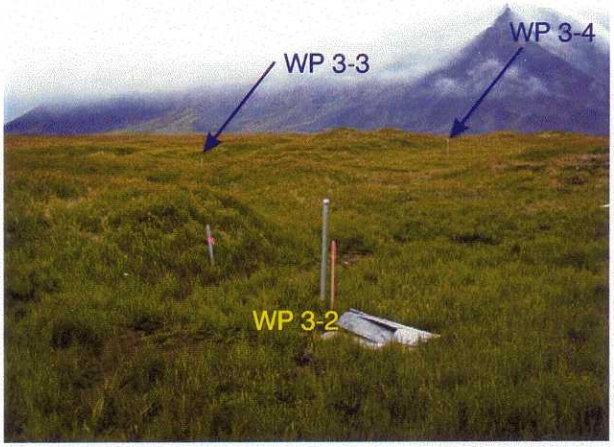
From: MWH field team
cc. Jane Whitsett 907-248-8884

APPENDIX C

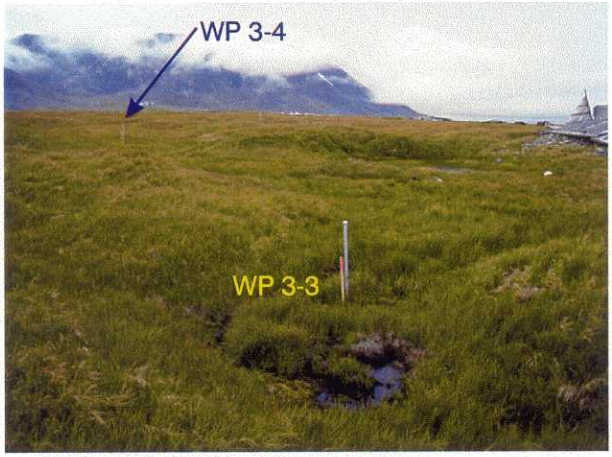
Field Photographs



WP 3-2 01NE03WP102



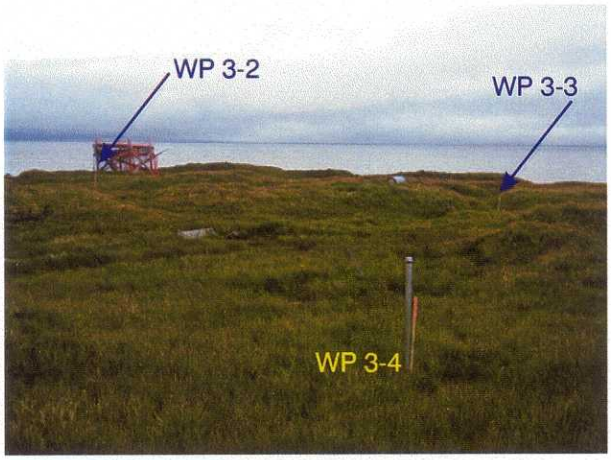
WP 3-2 01NE03WP102



WP 3-3 01NE03WP103



WP 3-3 01NE03WP103



WP 3-4 01NE03WP104

JOB No. 1850574.260160

MWH
MONTGOMERY WATSON HARZA
Anchorage, Alaska

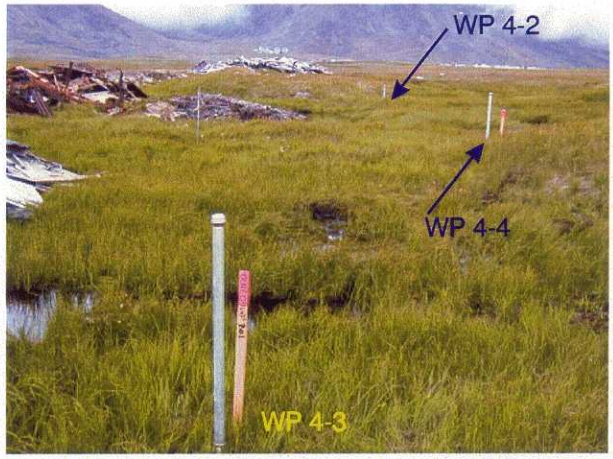
Site 3: Fuel Line Corridor and Pumphouse

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

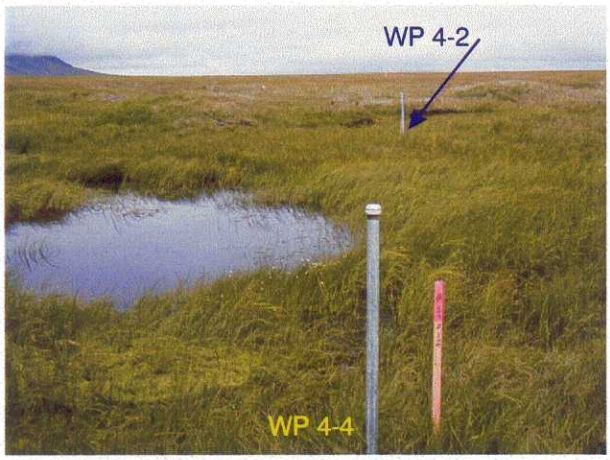
NORTHEAST CAPE 2001 RI PHOTOS



WP 4-2 01NE04WP102



WP 4-3 01NE04WP103



WP 4-4 01NE04WP104

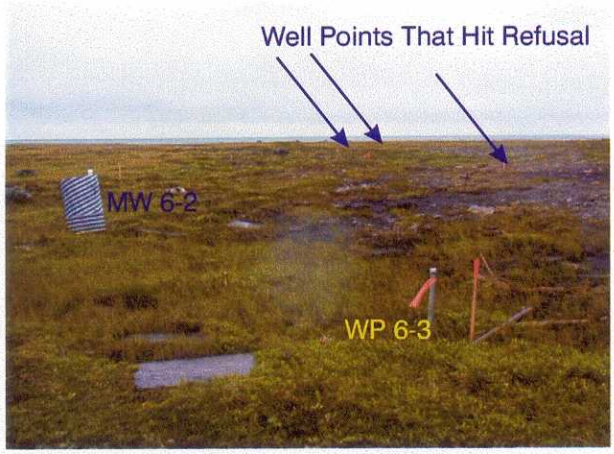
JOB No. 1850574.260160

MWH
MONTGOMERY WATSON HARZA
Anchorage, Alaska

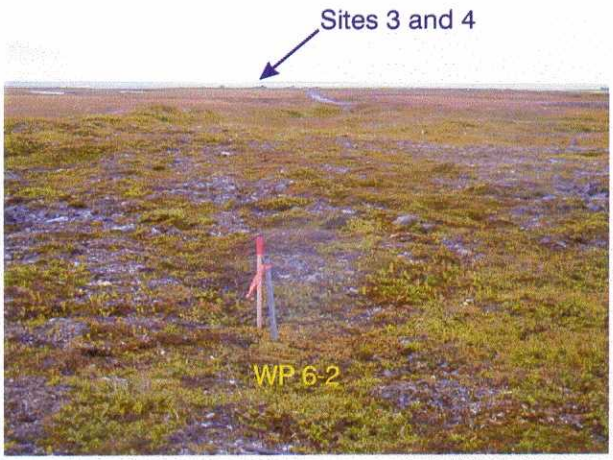
Site 4: Subsistence Fishing and Hunting Camp

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

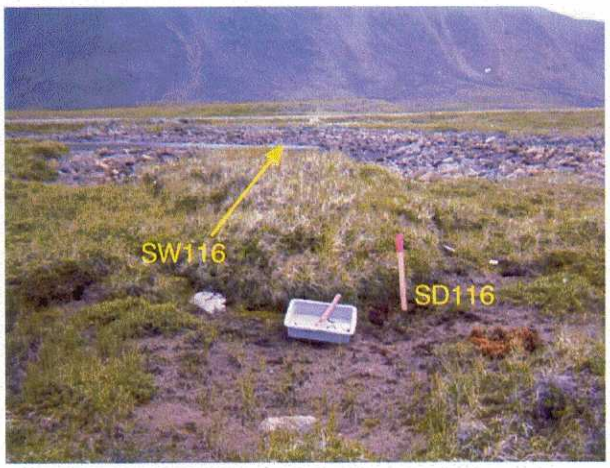
NORTHEAST CAPE 2001 RI PHOTOS



WP 6-3 01NE06WP103



WP 6-2 01NE06WP102



01NE06SW/SD116



01NE06SD117



01NE06TP101 , Test Pit 1



01NE06TP102 , Test Pit 2

JOB No. 1850574.260160

MWH
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Anchorage, Alaska

Site 6: Cargo Beach Road Drum Field

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

NORTHEAST CAPE 2001 RI PHOTOS



01NE07SS125

01NE07SS126



01NE07SS127

01NE07SW/SD104



01NE07SW/SD104

01NE07SW/SD105

JOB No. 1850574.260160

MWH
MONTGOMERY WATSON HARZA
Anchorage, Alaska

Site 7: Cargo Beach Road Landfill

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

NORTHEAST CAPE 2001 RI PHOTOS



MW 9-3
01NE09MW103



01NE09WP102



01NE09SW/SD108



01NE09SW110



01NE09SW/SD109



01NE09SW/SD107

JOB No. 1850574.260160

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MONTGOMERY WATSON HARZA
Anchorage, Alaska

Sites 9: Housing and Operations Landfill

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

NORTHEAST CAPE 2001 RI PHOTOS



Site 14 Sample Grid



Site 14 Sample Grid



Site 14 Sample Grid



Site 14 Sample Grid

JOB No. 1850574.260160

MWH
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Anchorage, Alaska

Site 14: Emergency Power/Operations Building

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

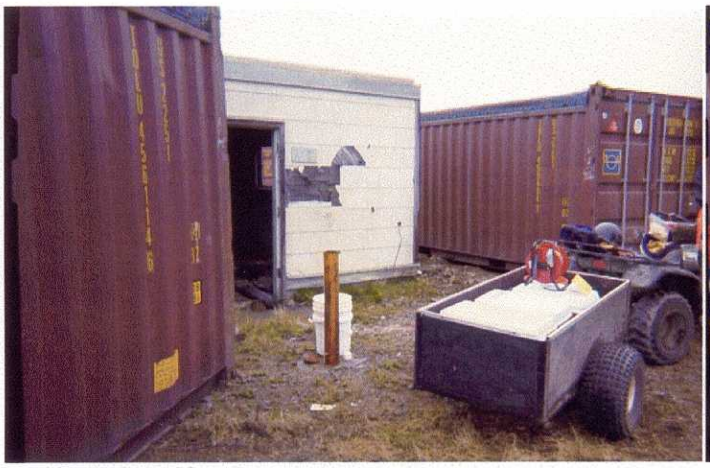
NORTHEAST CAPE 2001 RI PHOTOS



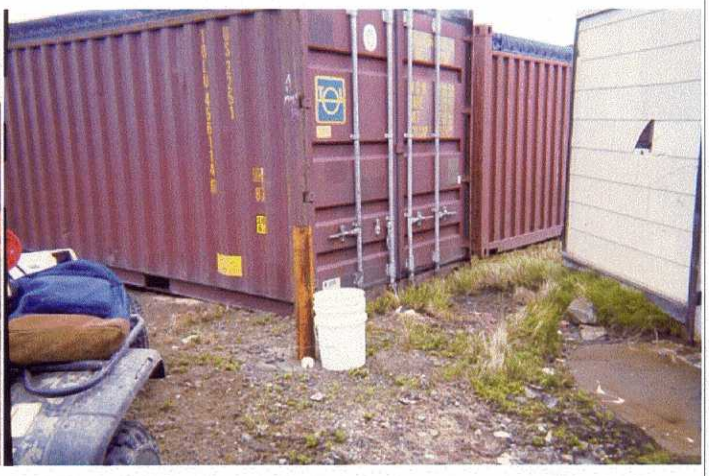
MW 16-2 01NE16GW102



MW 16-2 01NE16GW102



MW16-3 01NE16GW103



MW16-3 01NE16GW103



01NE16SS165, 01NE16SS166

JOB No. 1850574.260160

MWH
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Anchorage, Alaska

Site 16: Paint and Dope Storage Building

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NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

NORTHEAST CAPE 2001 RI PHOTOS



01NE21SS/SB169



01NE21SS/SB170



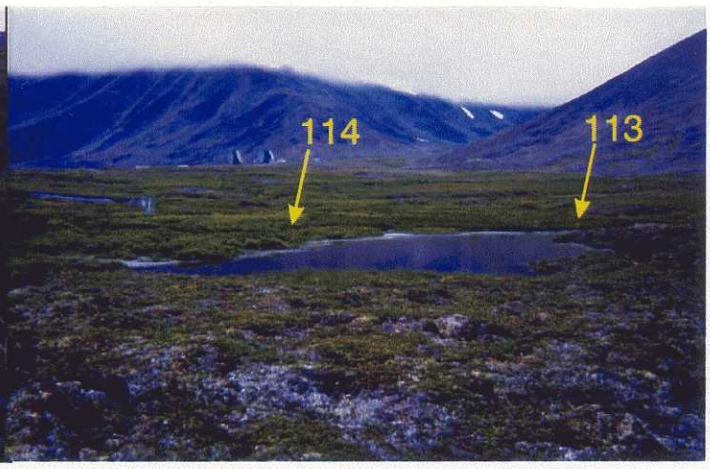
01NE21SS/SB171



01NE21SS172



01NE21SS173



01NE21SW/SD113
01NE21SW/SD114

JOB No. 1850574.260160

MWH
MONTGOMERY WATSON HARZA
Anchorage, Alaska

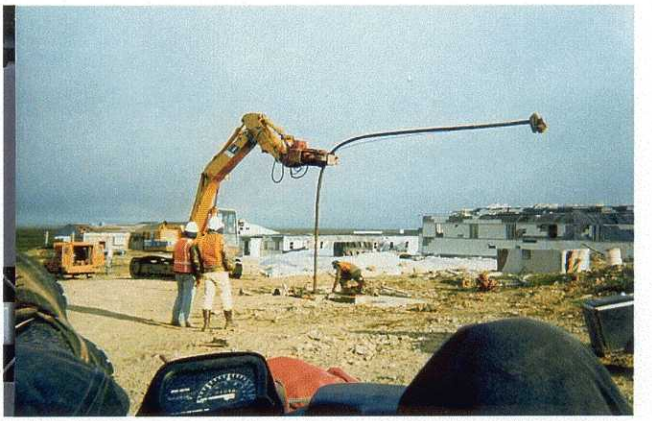
Sites 21: Wastewater Treatment Facility

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

NORTHEAST CAPE 2001 RI PHOTOS



Drinking Water Well 1
01NE35GW101



Removal of Pump from Drinking Water Well 2



Removal of Pump from Drinking Water Well 2
01NE35GW102



Drinking Water Well 3
01NEGW103



Drinking Water Well 4
01NE35GW104

JOB No. 1850574.260160

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Sites 22 and 26: Potable Water Wells

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NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

NORTHEAST CAPE 2001 RI PHOTOS



01NE24SW/SD114



01NE24SW/SD114



01NE24SW/SD114



01NE24SD115

JOB No. 1850574.260160

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Anchorage, Alaska

Site 24: Receiver Building Area

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

NORTHEAST CAPE 2001 RI PHOTOS



Cross Section 1 Looking East



Cross Section 1 Looking West



CS 1 Sample A



CS 1 Sample B



CS 1 Sample C



CS 1 Sample D



CS 1 Sample E

MWH
MONTGOMERY WATSON HARZA
Anchorage, Alaska

Site 28: Drainage Basin, Cross Section 1

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

NORTHEAST CAPE 2001 RI PHOTOS

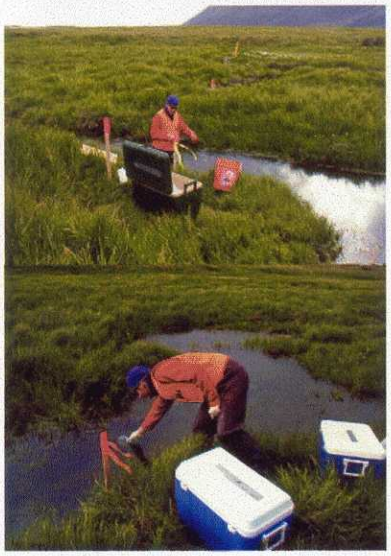
JOB No. 1850574.260160



Cross Section 2 Looking East



Cross Section 2 Looking West



CS 2 Sampling



CS 2 Sample A



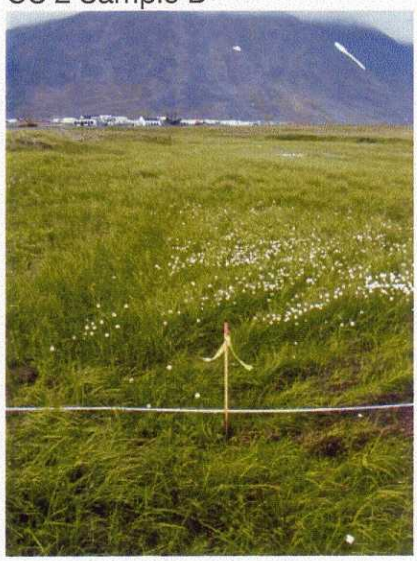
CS 2 Sample B



CS 2 Sample C



CS 2 Sample D



CS 2 Sample E

MWH
MONTGOMERY WATSON HARZA
Anchorage, Alaska

Site 28: Drainage Basin, Cross Section 2

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

NORTHEAST CAPE 2001 RI PHOTOS

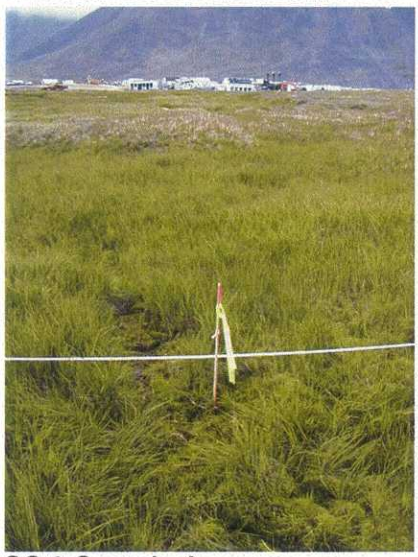
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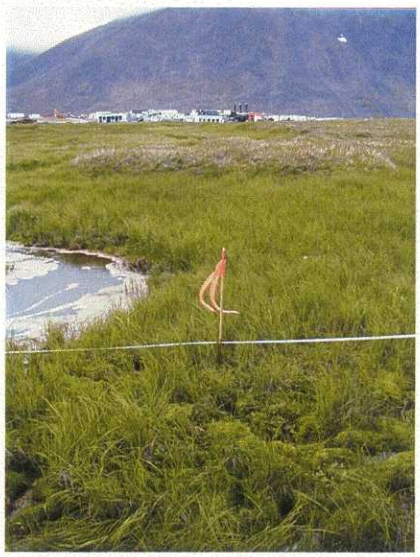
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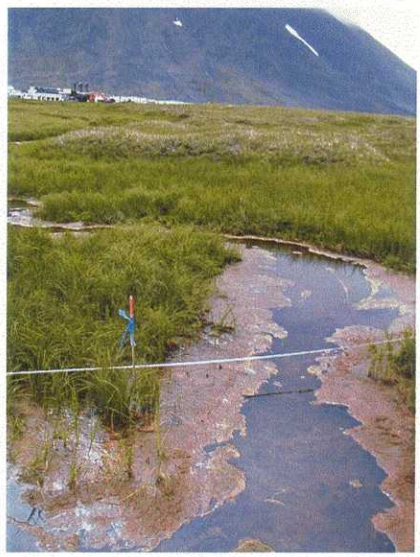
Cross Section 3 Looking West



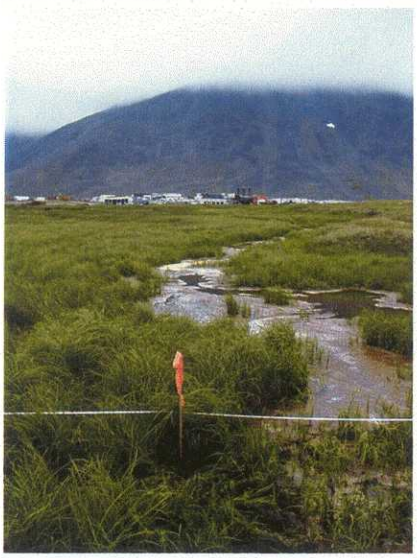
CS 3 Sample A



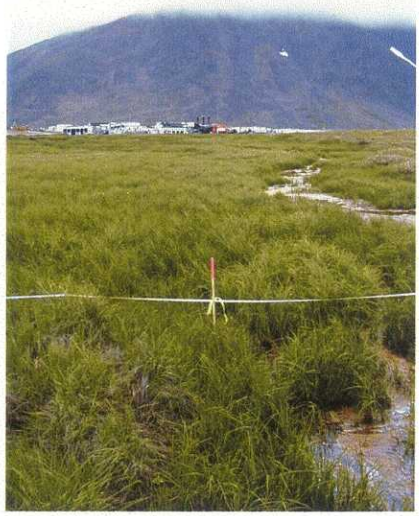
CS 3 Sample B



CS 3 Sample C



CS 3 Sample D



CS 3 Sample E

JOB No. 1850574.260160

MWH
MONTGOMERY WATSON HARZA
Anchorage, Alaska

Site 28: Drainage Basin, Cross Section 3

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

NORTHEAST CAPE 2001 RI PHOTOS



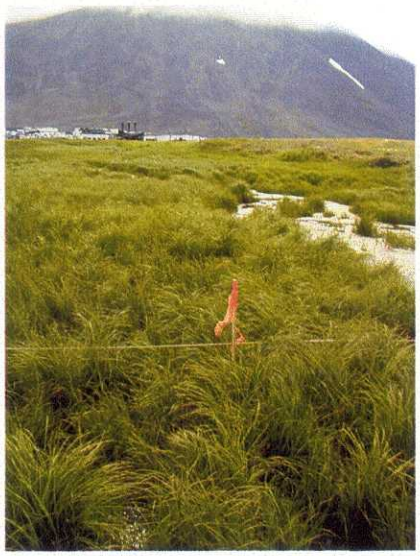
Cross Section 4 Looking East



Cross Section 4 Looking West



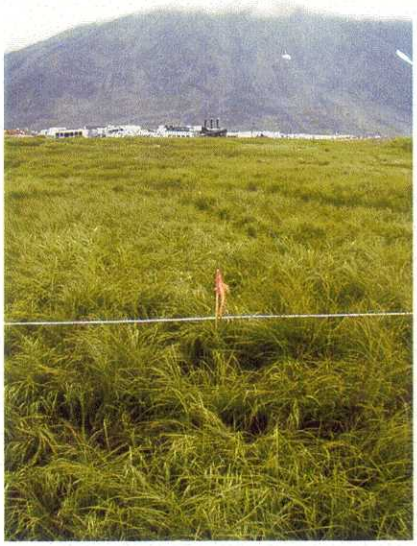
CS 4 Sample A



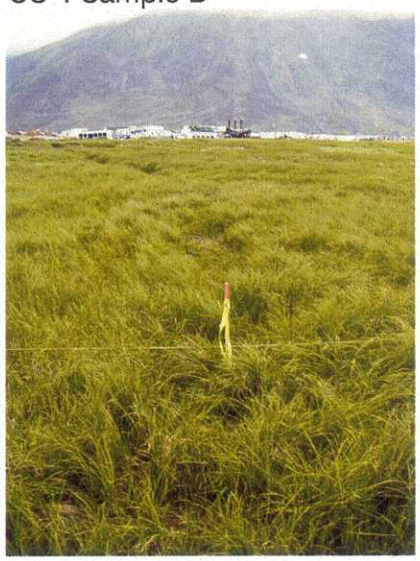
CS 4 Sample B



CS 4 Sample C



CS 4 Sample D



CS 4 Sample E

JOB No. 1850574.260160

MWH
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Anchorage, Alaska

Site 28: Drainage Basin, Cross Section 4

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

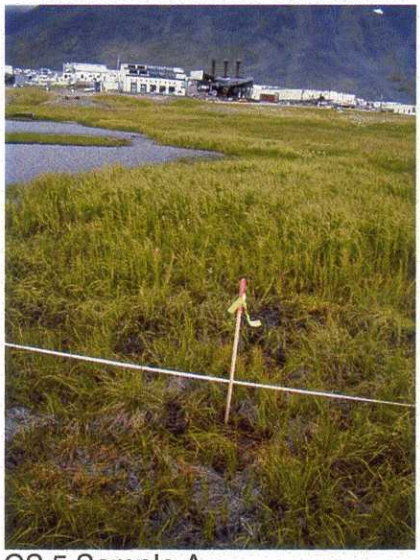
NORTHEAST CAPE 2001 RI PHOTOS



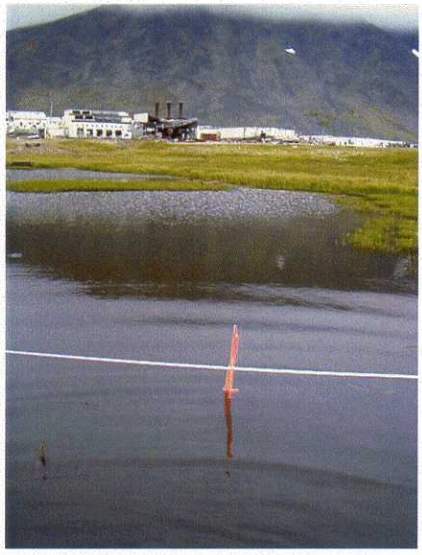
Cross Section 5 Looking East



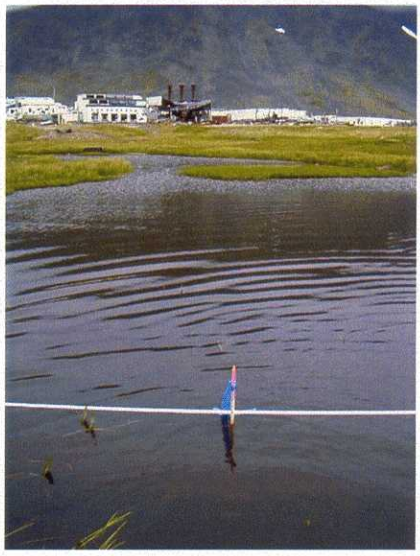
Cross Section 5 Looking West



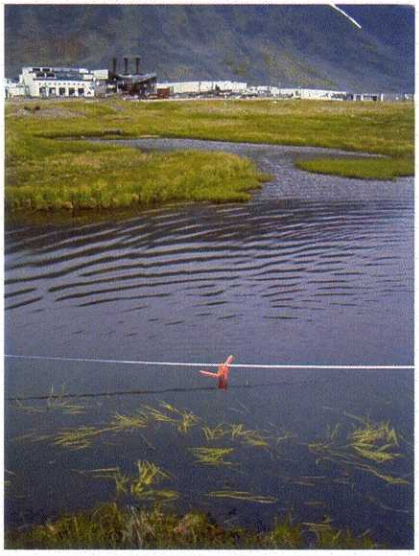
CS 5 Sample A



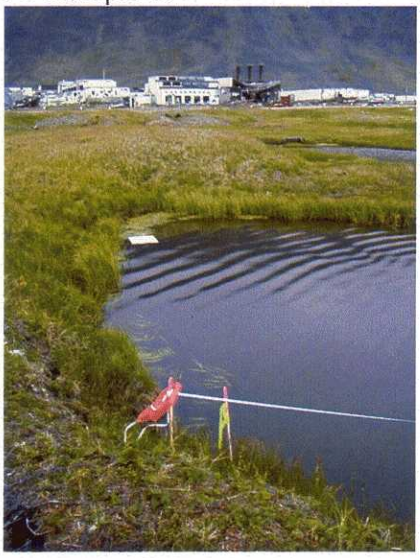
CS 5 Sample B



CS 5 Sample C



CS 5 Sample D



CS 5 Sample E

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Site 28: Drainage Basin, Cross Section 5

U.S. ARMY ENGINEER DISTRICT, ALASKA
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NORTHEAST CAPE 2001 RI PHOTOS



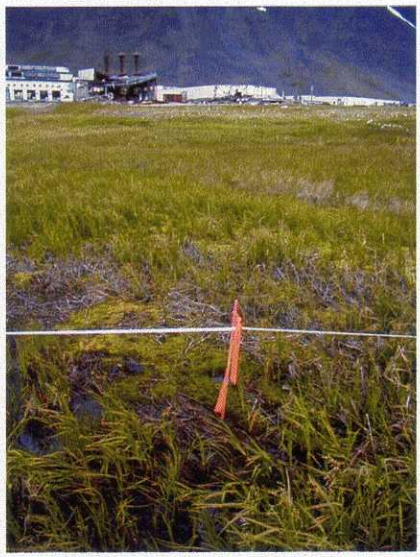
Cross Section 6 Looking East



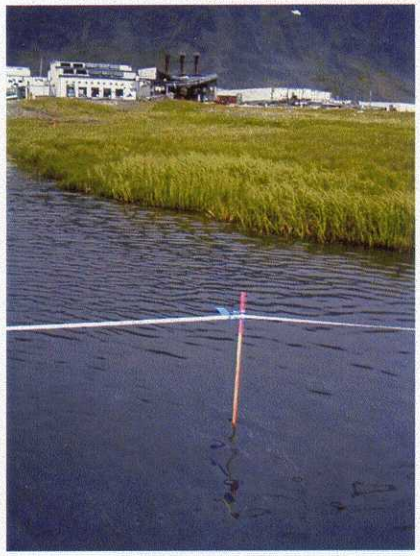
Cross Section 6 Looking West



CS 6 Sampling



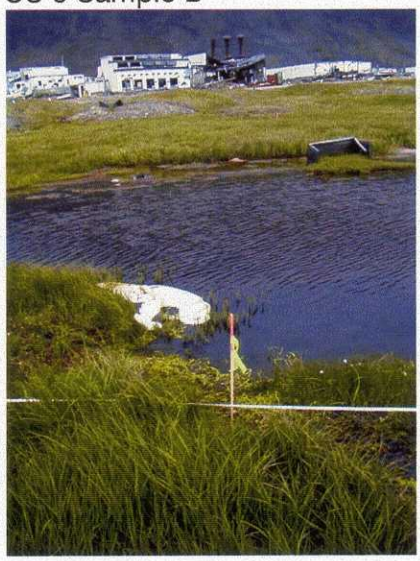
CS 6 Sample B



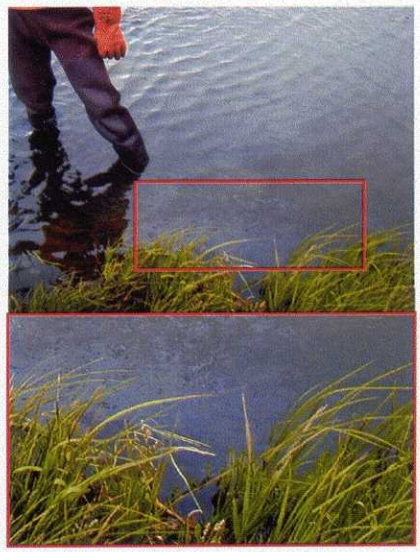
CS 6 Sample C



CS 6 Sample D



CS 6 Sample E



CS 6 Sheen

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Site 28: Drainage Basin, Cross Section 6

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NORTHEAST CAPE 2001 RI PHOTOS

JOB No. 1850574.260160



Cross Section 7 Looking East



Cross Section 7 Looking West



Cross Section 7 Looking South



Cross Section 8 Looking Southeast



Cross Section 8 Looking West



Cross Section 8 Looking North



Cross Section 8 Looking East



CS 8 Sampling

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Site 28: Drainage Basin, Cross Section 8

U.S. ARMY ENGINEER DISTRICT, ALASKA
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NORTHEAST CAPE 2001 RI PHOTOS



Cross Section 9 Looking South



Cross Section 9 Looking West



Cross Section 9 Looking East

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Site 28: Drainage Basin, Cross Section 9

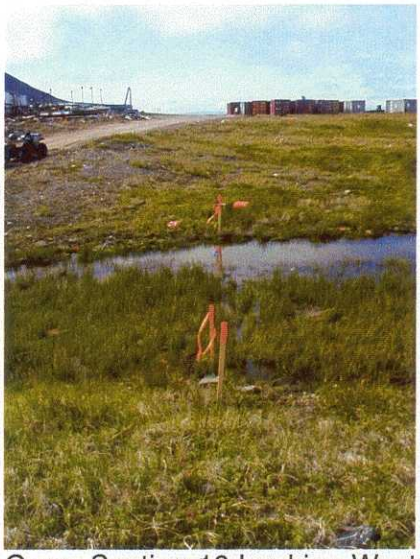
U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

NORTHEAST CAPE 2001 RI PHOTOS

JOB No. 1850574.260160



Cross Section 10 Looking North



Cross Section 10 Looking West



Cross Section 10 Looking South



Cross Section 10 Looking East



Cross Section 10 Looking West

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Site 28: Drainage Basin, Cross Section 10

U.S. ARMY ENGINEER DISTRICT, ALASKA
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NORTHEAST CAPE 2001 RI PHOTOS



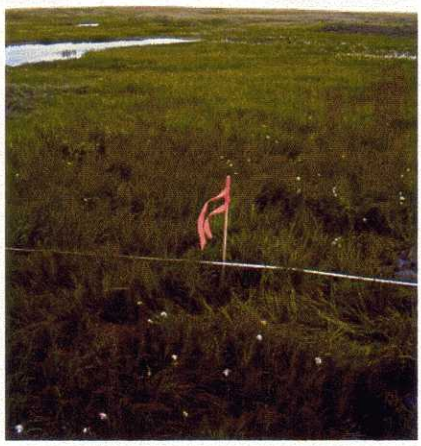
Cross Section 11 Looking South



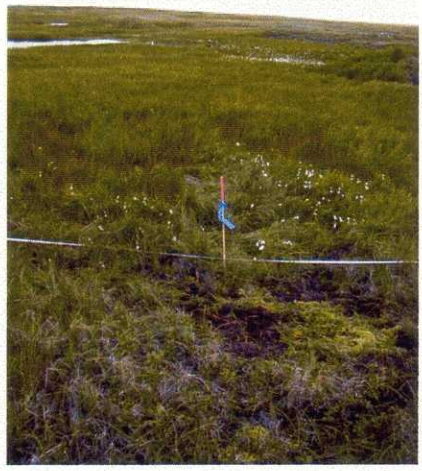
Cross Section 11 Looking North



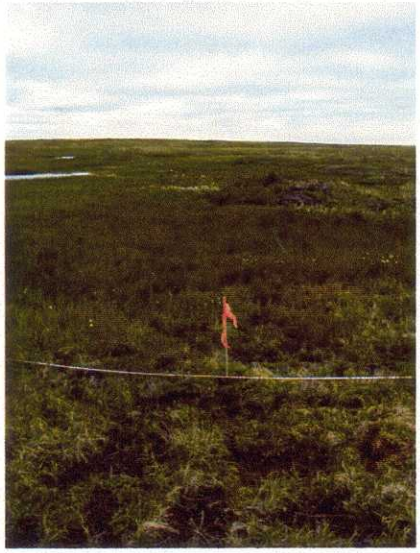
CS 11 Sample A



CS 11 Sample B



CS 11 Sample C



CS 11 Sample D



CS 11 Sample E

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Site 28: Drainage Basin, Cross Section 11

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NORTHEAST CAPE 2001 RI PHOTOS



Cross Section 12 Looking South



Cross Section 12 Looking North



CS 12 Sample A



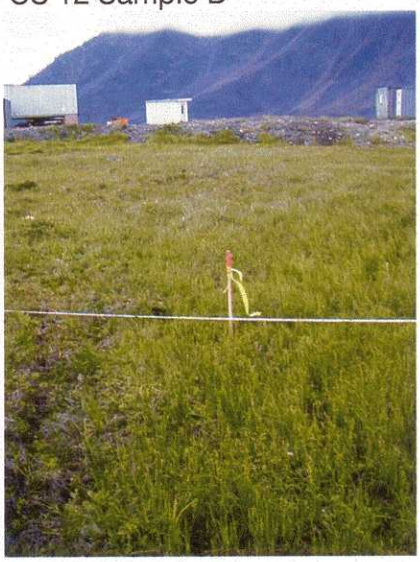
CS 12 Sample B



CS 12 Sample C



CS 12 Sample D



CS 12 Sample E

JOB No. 1850574.260160

MONTGOMERY WATSON

Anchorage, Alaska

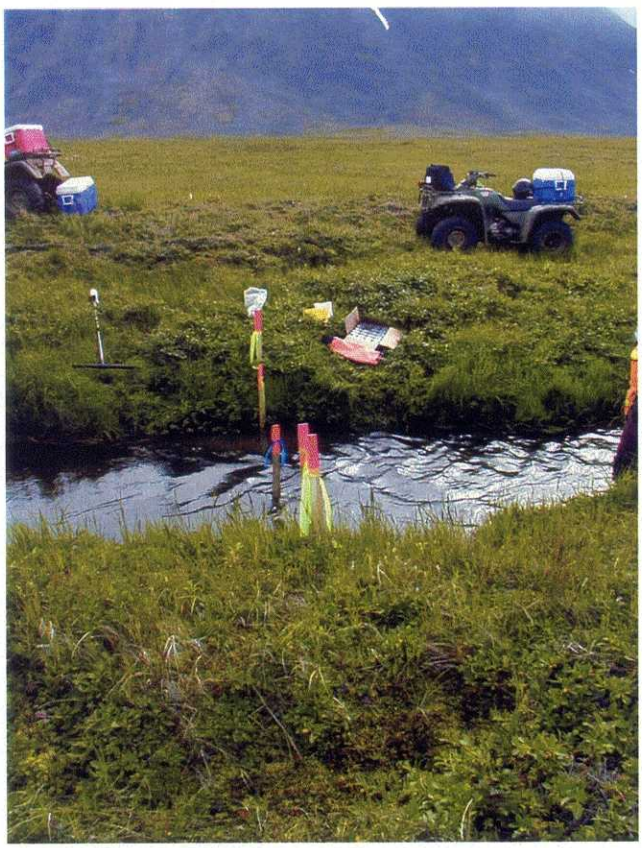
Site 28: Drainage Basin, Cross Section 12

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NORTHEAST CAPE 2001 RI PHOTOS



Cross Section 1 Looking East/Southeast



Cross Section 1 Looking South



Cross Section 1 Looking North

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Site 29: Suqitughneq River, Cross Section 1

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NORTHEAST CAPE 2001 RI PHOTOS

JOB No. 1850574.260160



Cross Section 2 Looking North



Cross Section 2 Looking South/Southeast



Cross Section 2 Looking South/Southeast



Cross Section 3 Looking North



Cross Section 3 Looking North/Northwest



Cross Section 3 Looking South



Cross Section 3 Looking South/Southeast

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Site 29: Suqitughneq River, Cross Section 3

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NORTHEAST CAPE 2001 RI PHOTOS



Cross Section 4 Looking Northeast Towards Estuary



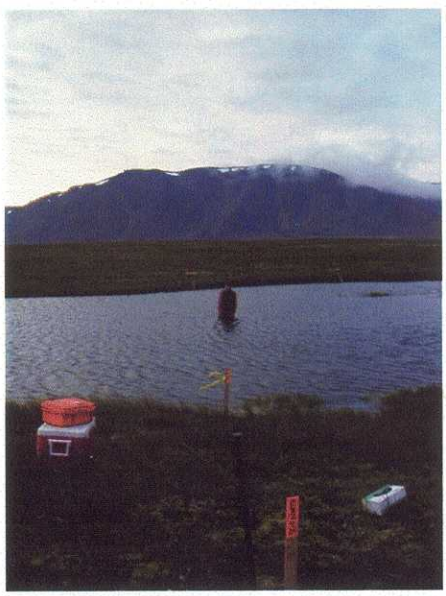
Cross Section 4 Looking Southwest



Cross Section 4 Looking Northwest



Cross Section 4 Looking South
(sampler holding survey lath at midpoint)



Cross Section 4 Looking South

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Site 29: Suqitughneq River, Cross Section 4

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NORTHEAST CAPE 2001 RI PHOTOS



Stream Flow 1 Looking West



Stream Flow 1 Looking North



Stream Flow 1 Looking South



Stream Flow 2 Looking South



Stream Flow 2 Looking East



Stream Flow 2 Looking South

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Site 29: Suqitughneq River, Stream Flows 1 & 2

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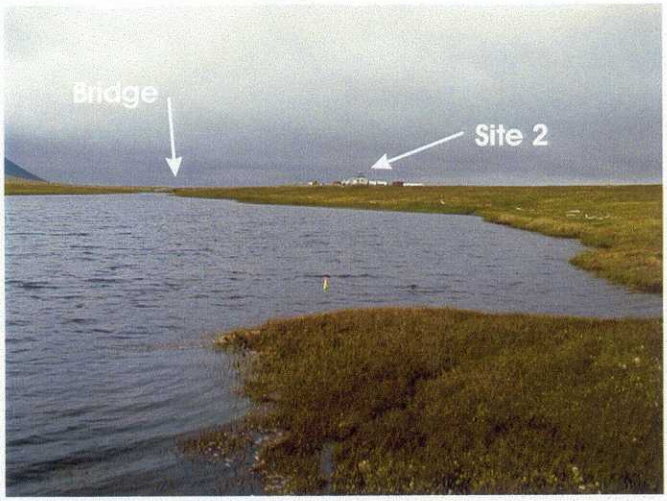
NORTHEAST CAPE 2001 RI PHOTOS



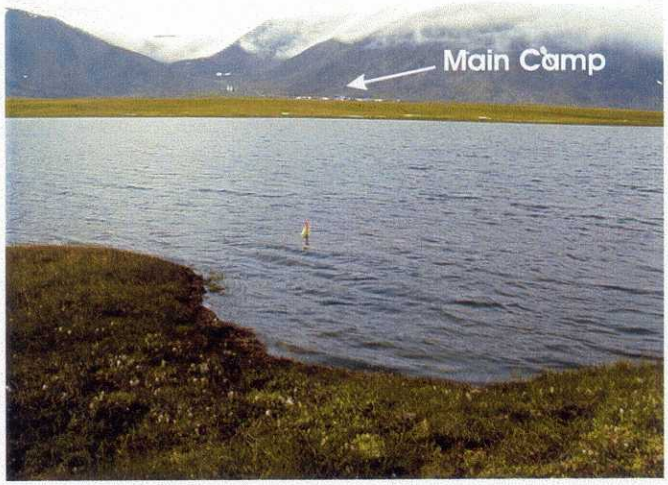
Sediment Sample 01NE29SD126



Sediment Sample 01NE29SD127



Sediment Sample 01NE29SD128



Sediment Sample 01NE29SD128



Sediment Sample 01NE29SD129



Sediment Sample 01NE29SD129

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Site 29: Suqitughneq River, Sediment Samples

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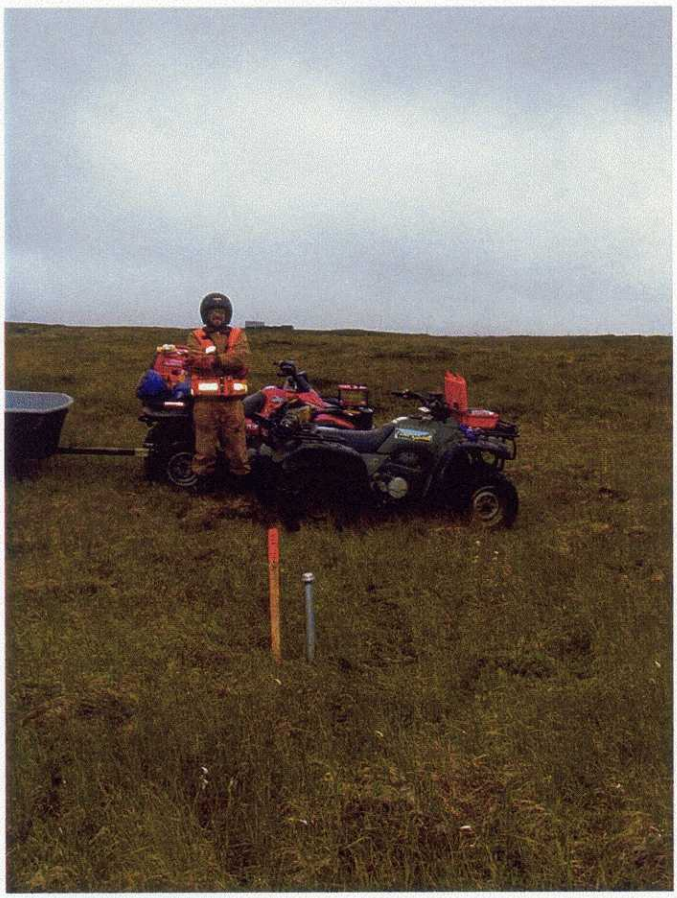
NORTHEAST CAPE 2001 RI PHOTOS



01NE30WP101 Looking West



01NE30WP101 Looking North



01NE30WP102 Looking North



01NE30WP102 Looking South

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Site 30: Background Areas

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NORTHEAST CAPE 2001 RI PHOTOS



01NE30SS103 Looking South



01NE30SD101 Looking Southeast



01NE30SS102 Looking South



01NE30SS102 Looking North



01NE30SS101 Looking South



01NE30SS101 Looking North

JOB No. 1850574.260160

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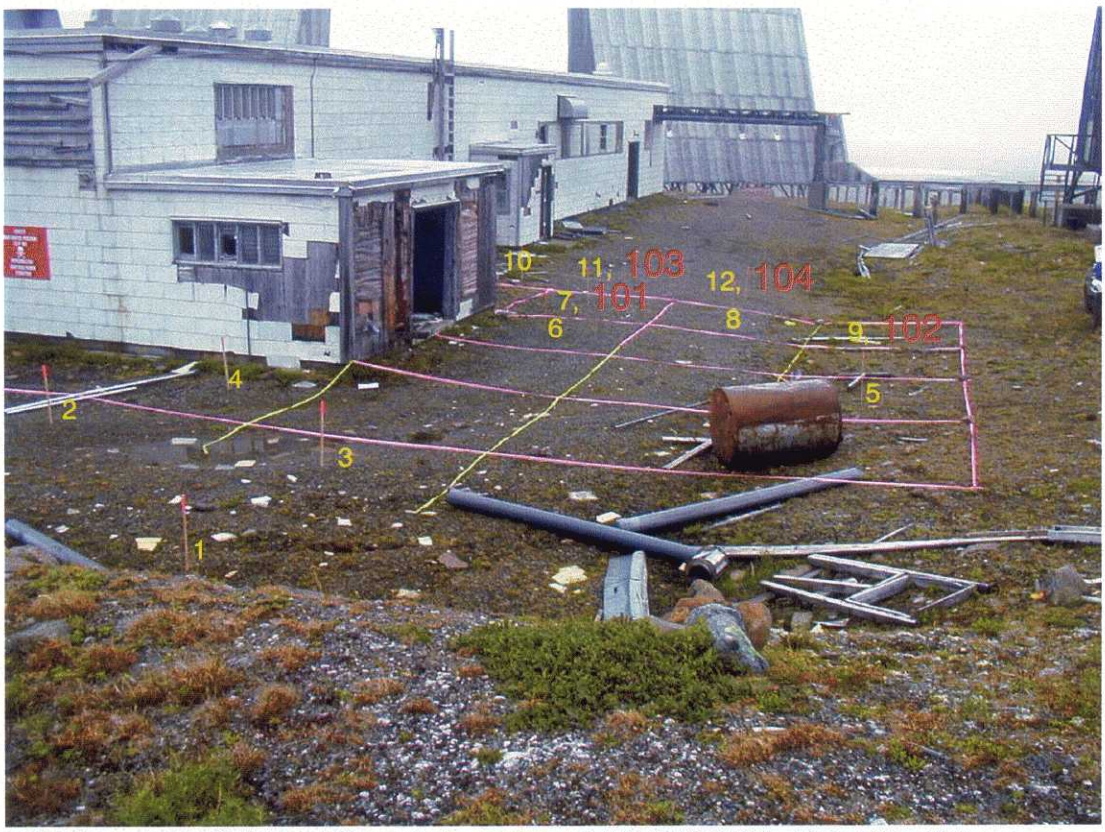
Site 30: Background Areas

U.S. ARMY ENGINEER DISTRICT, ALASKA
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NORTHEAST CAPE 2001 RI PHOTOS



PCB Screening Grid and Sample Locations 01NE31SS101, 102, 103, 104



PCB Screening Grid and Sample Locations 01NE31SS101, 102, 103, 104



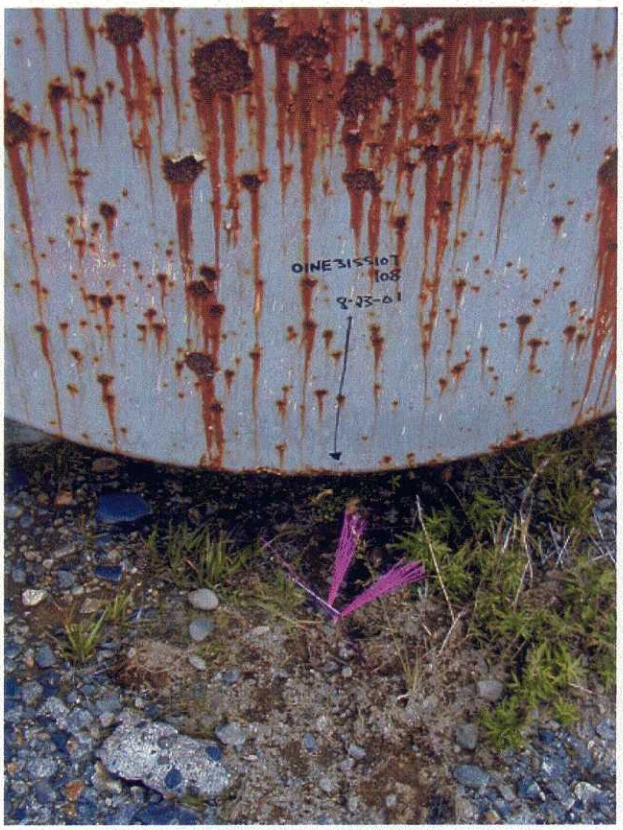
01NE31SS105, 01NE31SS106



01NE31SS105, 01NE31SS106



01NE31SS107, 01NE31SS108



01NE31SS107, 01NE31SS108

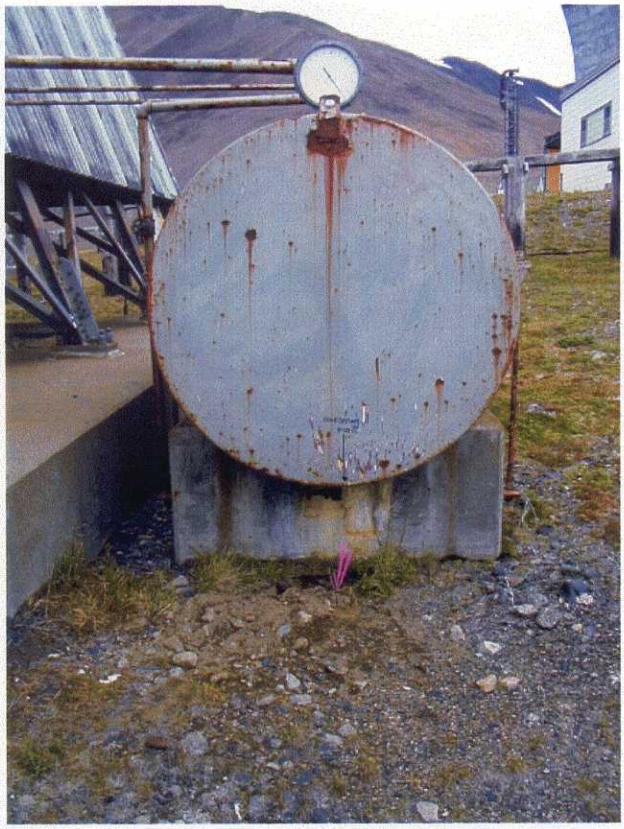
JOB No. 1850574.260160

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Anchorage, Alaska

Site 31: White Alice Communications Site

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

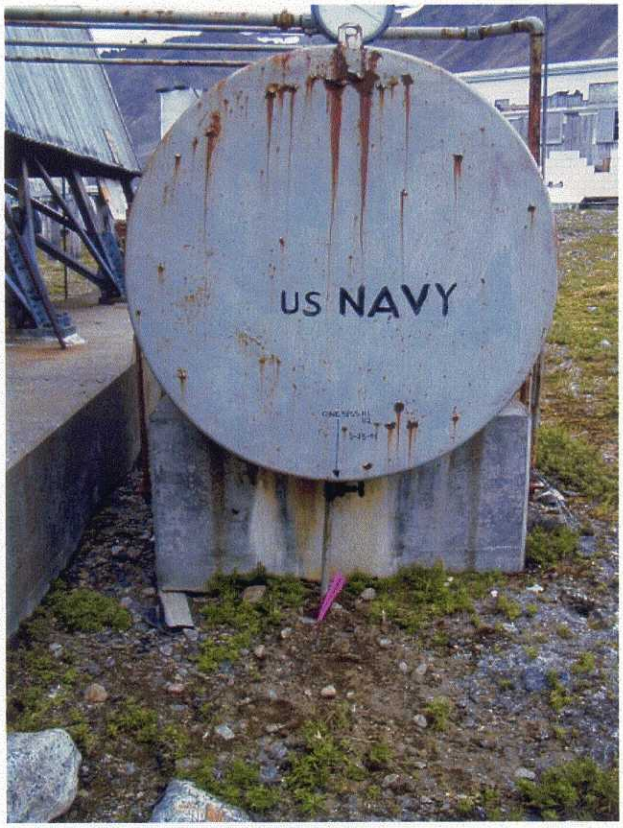
NORTHEAST CAPE 2001 RI PHOTOS



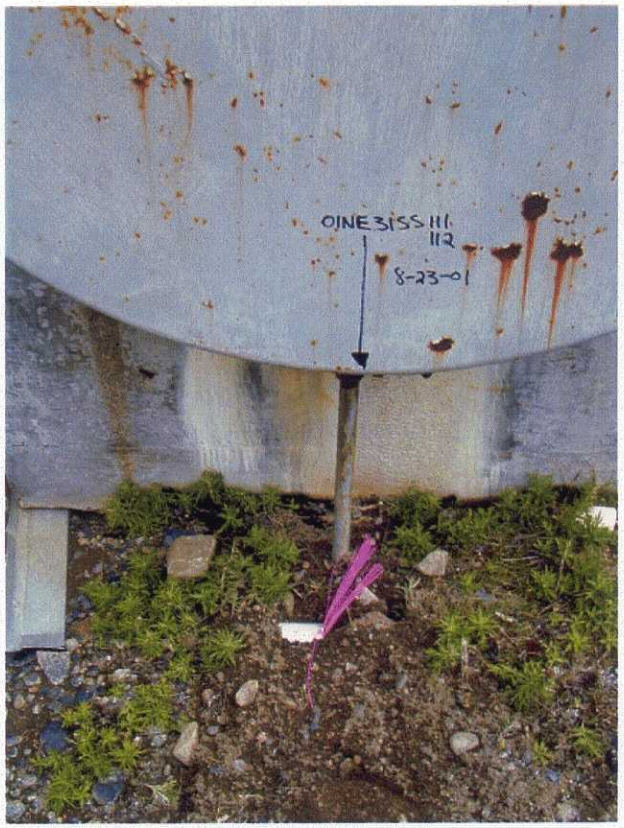
01NE31SS109, 01NE31SS110



01NE31SS109, 01NE31SS110



01NE31SS111, 01NE31SS112



01NE31SS111, 01NE31SS112

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Site 31: White Alice Communications Site

U.S. ARMY ENGINEER DISTRICT, ALASKA
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NORTHEAST CAPE 2001 RI PHOTOS

JOB No. 1850574.260160



01NE31SS113, 01NE31SS114



01NE31SS115, 01NE31SS116



WACS Fuel Tanks Samples
01NE31SS113, 01NE31SS114
01NE31SS115, 01NE31SS116

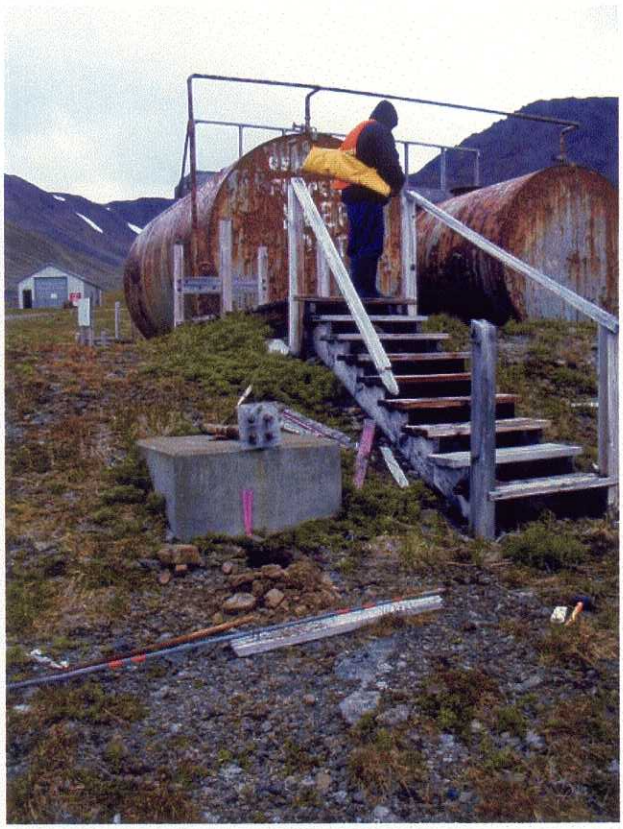
JOB No. 1850574.260160

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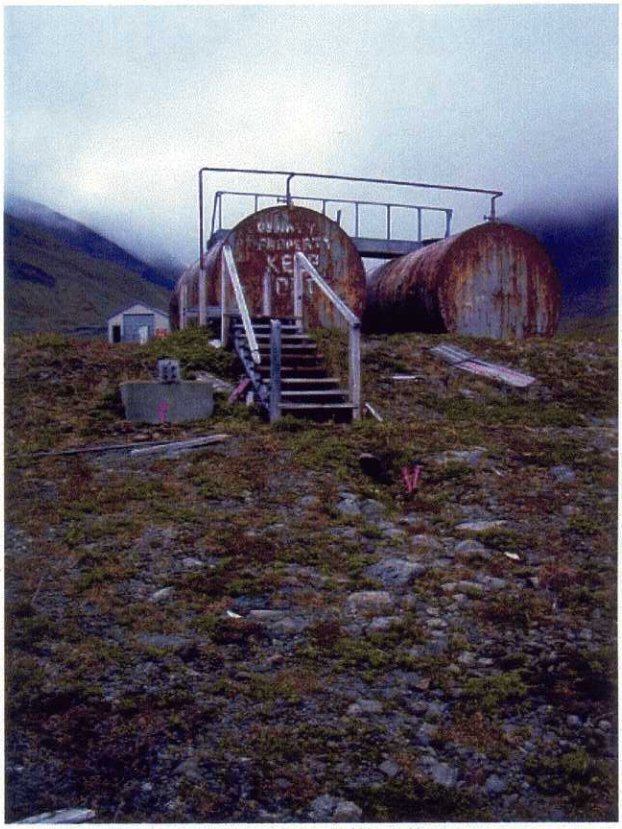
Site 31: White Alice Communications Site

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NORTHEAST CAPE 2001 RI PHOTOS



01NE31SS117, 01NE31SS118



01NE31SS117, 01NE31SS118





01NE31SS119, 01NE31SS120

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Site 31: White Alice Communications Site

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NORTHEAST CAPE 2001 RI PHOTOS



01NE31SS123
(discretionary sample for sites 31 & 32)



01NE32SS124
(discretionary sample for sites 31 & 32)



01NE31SS125 (background)



01NE31SS125 (background)

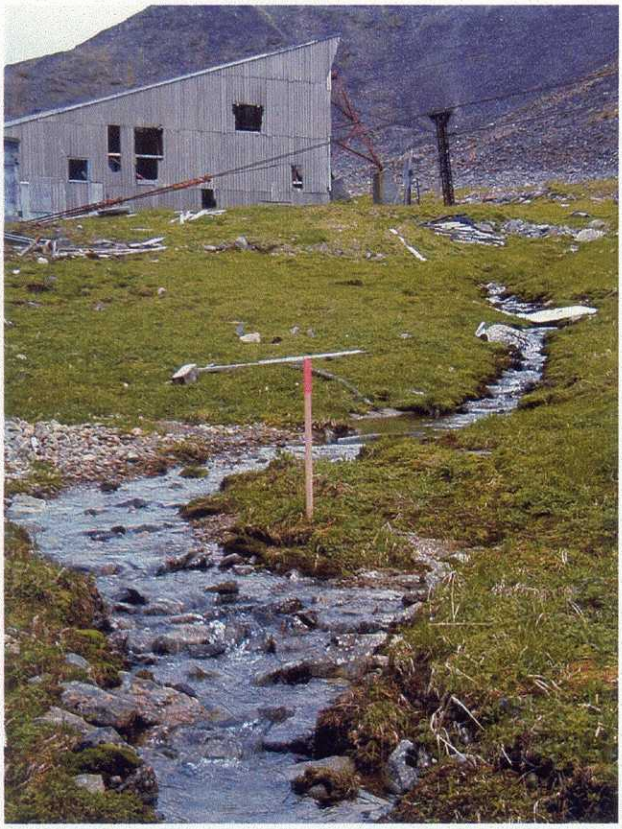
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Site 31: White Alice Communications Site

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NORTHEAST CAPE 2001 RI PHOTOS

JOB No. 18505574.260160



Surfacewater Sample 01NE32SW101
Looking Upstream (South)



Surfacewater Sample 01NE32SW101
Looking Downstream (North)



Surfacewater Sample 01NE32SW102
Looking Upstream (South)



Surfacewater Sample 01NE32SW102
Looking Downstream (North)

JOB No. 1850574.260160

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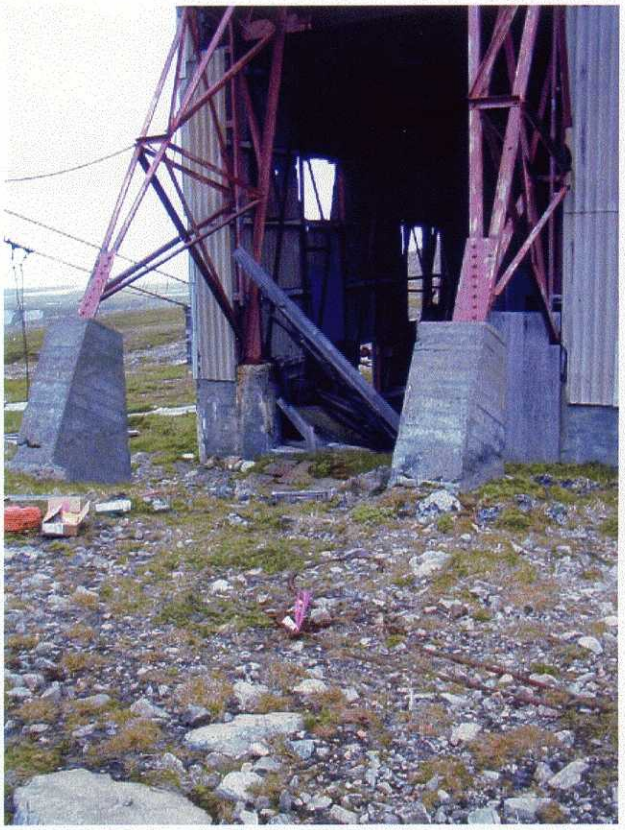
Site 31: White Alice Communications Site

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NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

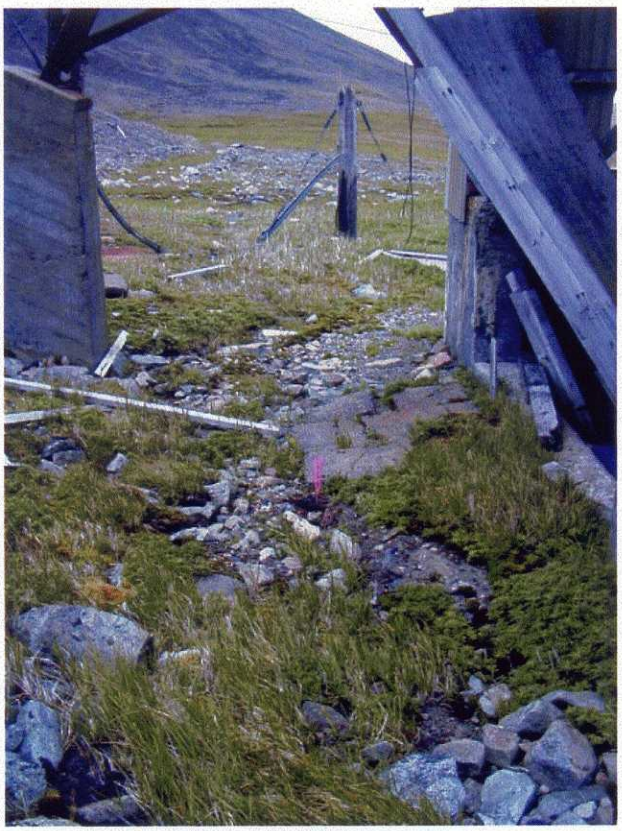
NORTHEAST CAPE 2001 RI PHOTOS



Surface Sample 01NE32SS101, 01NE32SS102



Surface Sample 01NE32SS103



Surface Sample 01NE32SS104



Surface Sample 01NE32SS105

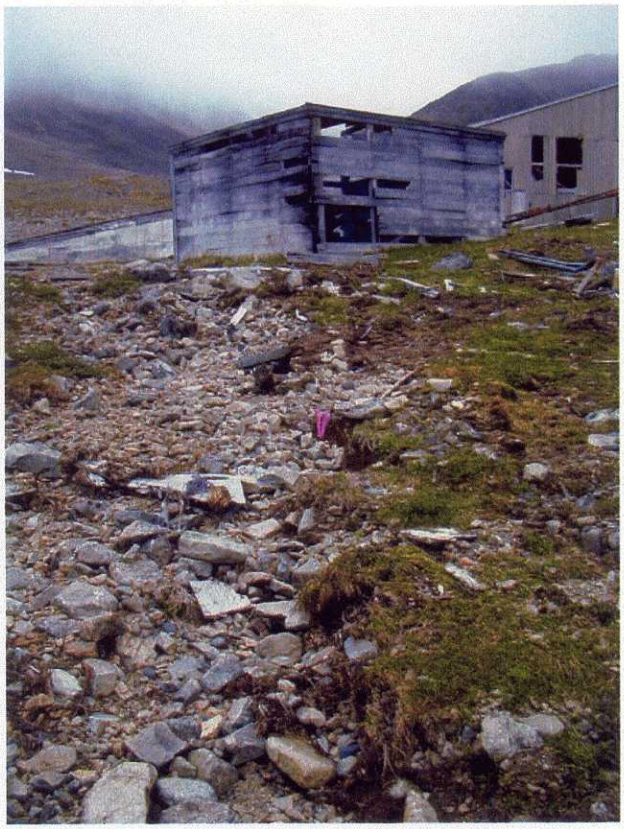
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Site 31: White Alice Communications Site

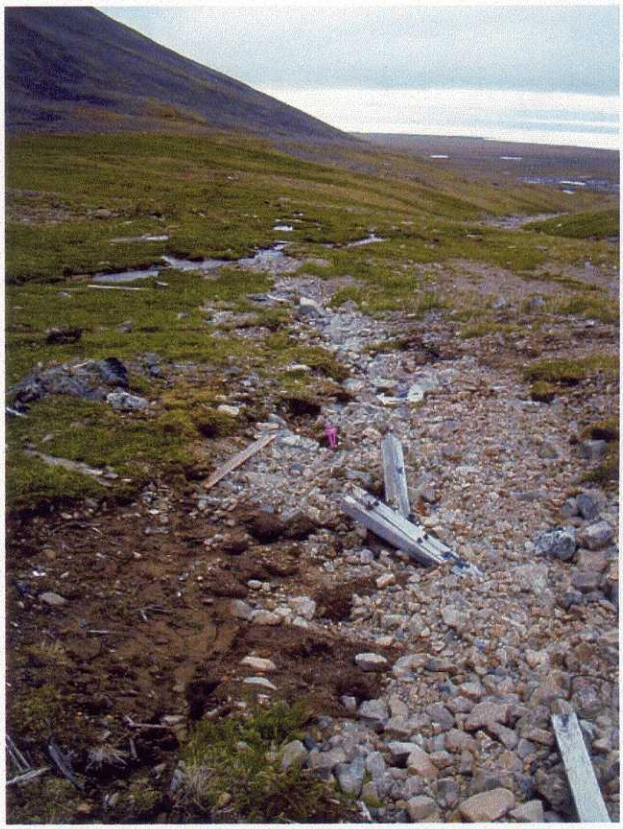
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NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

NORTHEAST CAPE 2001 RI PHOTOS

JOB No. 185057.4.260160



Surface Sample 01NE32SS121, 221, 331
Looking Upgradient (South)



Surface Sample 01NE32SS121,221,321
Looking Down Gradient (North)



Surface Sample 01NE32SS122



Surface Sample 01NE32SS122

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Site 31: White Alice Communications Site

U.S. ARMY ENGINEER DISTRICT, ALASKA
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NORTHEAST CAPE 2001 RI PHOTOS

JOB No. 185057.4.260160



01NE35SS101, 102, 103 (Upper Tram Terminal)



01NE35SS101, 102, 103 (Upper Tram Terminal)



01NE35SS101



01NE35SS102



01NE35SS103

JOB No. 1850574.260160

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Site 33: Upper Tram Terminal

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NORTHEAST CAPE 2001 RI PHOTOS



01NE34SS101



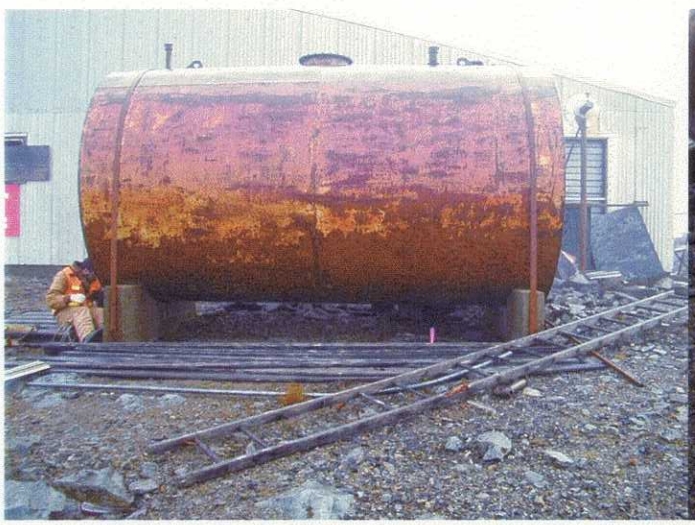
01NE34SS102



01NE34SS103



01NE34SS104



01NE34SS105, 01NE34SS106



01NE34SS105, 01NE34SS106

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Site 34: Upper Camp

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NORTHEAST CAPE 2001 RI PHOTOS

JOB No. 18[illegible]4.260160



01NE34SS107, 108, 109, 110



01NE34SS111 (Site Background)



Stream Flow Measurement 1, Looking South



Sheen after disturbing river bottom



Detail of river, note low water level



Stream Flow Measurement 1, Looking West



Stream Flow Measurement 1, 2001 note high water

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Stream Flow 1

U.S. ARMY ENGINEER DISTRICT, ALASKA
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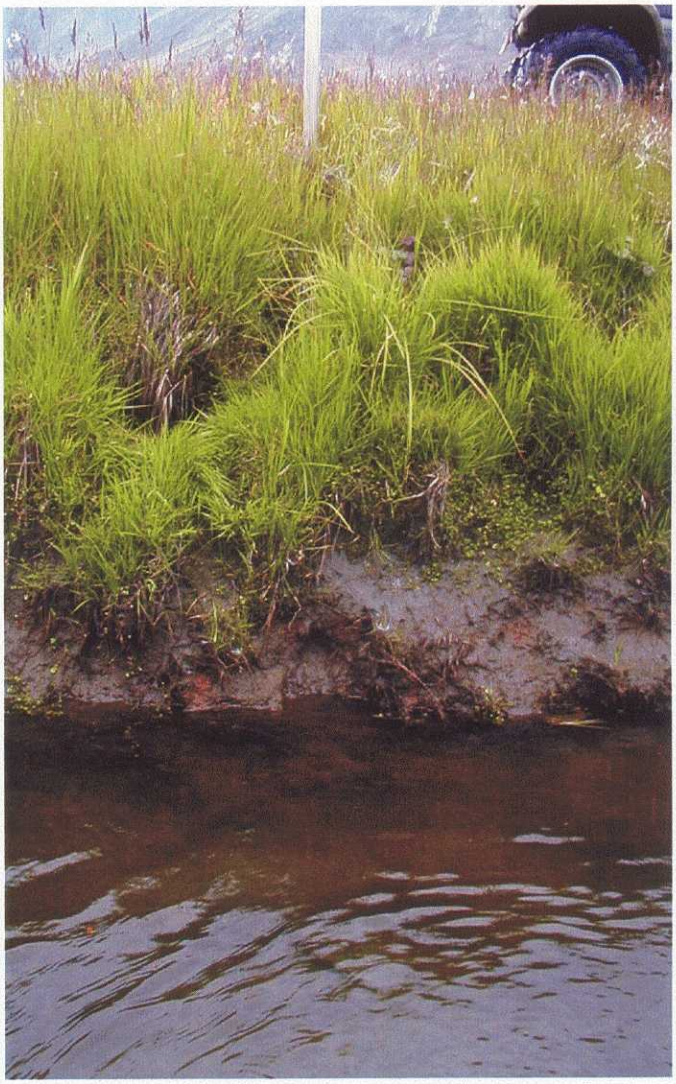
NORTHEAST CAPE 2002 RI PHOTOS



Stream Flow Measurement 2, Looking South



Sheen after disturbing river bottom



Detail of river, note low water level



Stream Flow Measurement 2, Looking South



Stream Flow Measurement 2, 2001 note high water

JOB No. 1850574.260160

MWH
MONTGOMERY WATSON HARZA
Anchorage, Alaska

Stream Flow Measurement 2

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

NORTHEAST CAPE 2002 RI PHOTOS



Detail of river, note low water level



Stream Flow Measurement 3, Looking South



Stream Flow Measurement 3, 2001 note high water

MWH
MONTGOMERY WATSON HARZA
Anchorage, Alaska

Stream Flow 3

U.S. ARMY ENGINEER DISTRICT, ALASKA
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NORTHEAST CAPE 2002 RI PHOTOS

JOB No. 1850574.260160



Soil Boring 22-2



Soil Boring 22-2



Soil Boring 22-2, 22-1 in background



Debris pile in vicinity of original location for SB 22-1



Soil Boring 22-1



Soil Boring 22-1 and debris pile

MWH
MONTGOMERY WATSON HARZA
Anchorage, Alaska

Site 22: Water Storage Facility

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

NORTHEAST CAPE 2002 RI PHOTOS

JOB No. 1850574.260160



Monitoring Well 88-1



Monitoring Well 88-1, swing tie



Monitoring Well 88-3, prior to pad being set

JOB No. 1850574.260160

MWH
MONTGOMERY WATSON HARZA
Anchorage, Alaska

Site 88 (Sites 13, 15, 19 & 27) Main Operations Complex

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

NORTHEAST CAPE 2002 RI PHOTOS



Monitoring Well 88-4



Monitoring Well 88-4



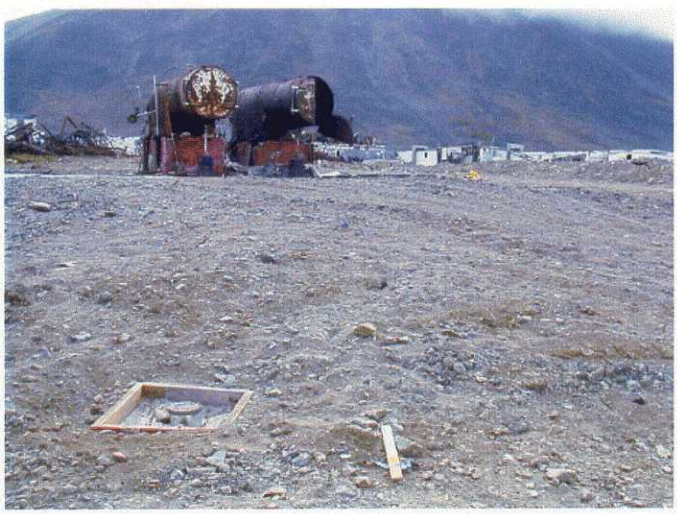
Monitoring Well 88-5



Monitoring Well 88-5



Monitoring Well 88-6



Monitoring Well 88-6

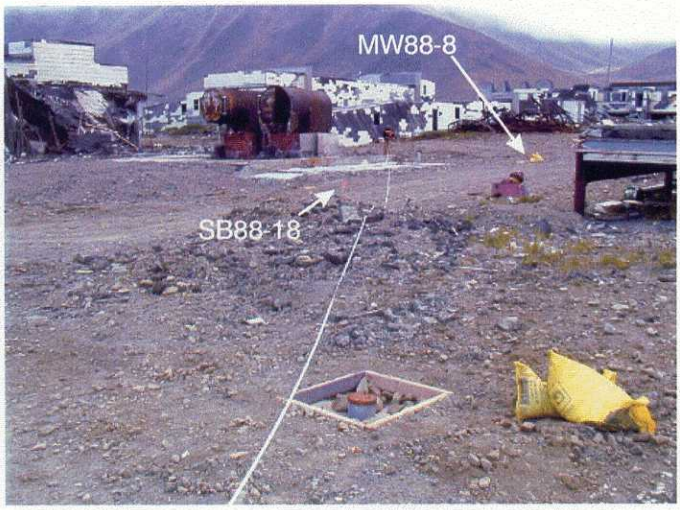
JOB No. 1850574.260160

MWH
MONTGOMERY WATSON HARZA
Anchorage, Alaska

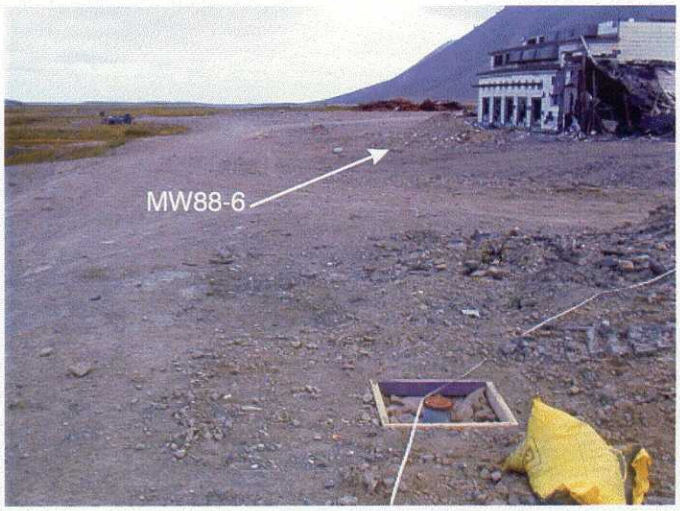
Site 88 (Sites 13, 15, 19 & 27) Main Operations Complex

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

NORTHEAST CAPE 2002 RI PHOTOS



Monitoring Well 88-7



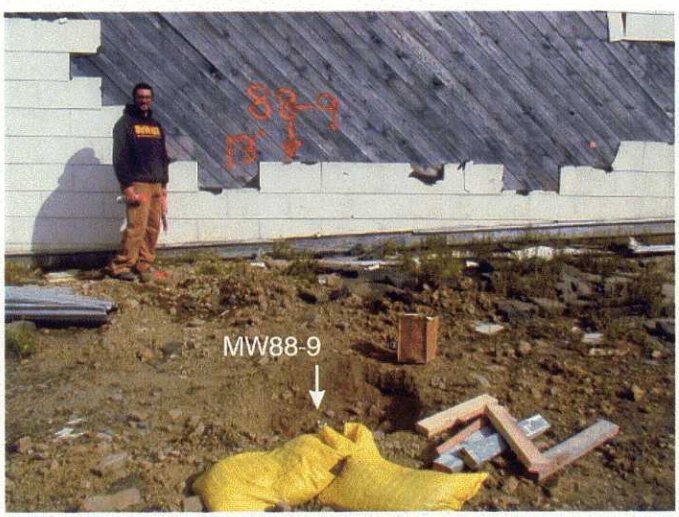
Monitoring Well 88-7



Monitoring Well 88-8



Monitoring Well 88-8, swing tie



Monitoring Well 88-9



Monitoring Well 88-9

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Site 88 (Sites 13, 15, 19 & 27) Main Operations Complex

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

NORTHEAST CAPE 2002 RI PHOTOS

JOB No. 1850574.260160



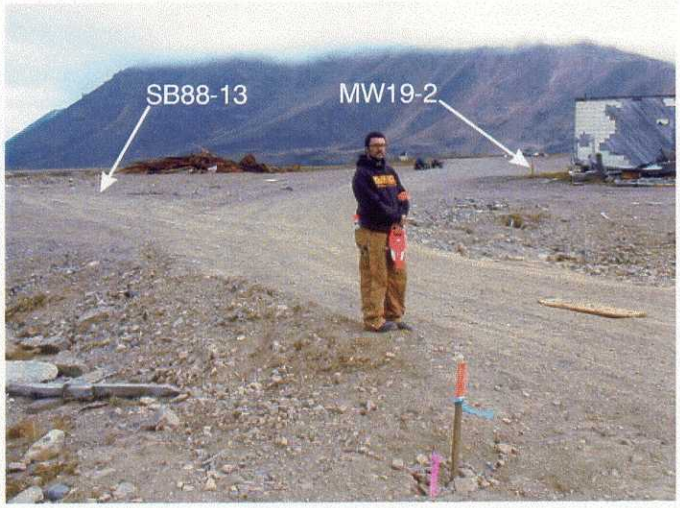
Monitoring Well 88-10



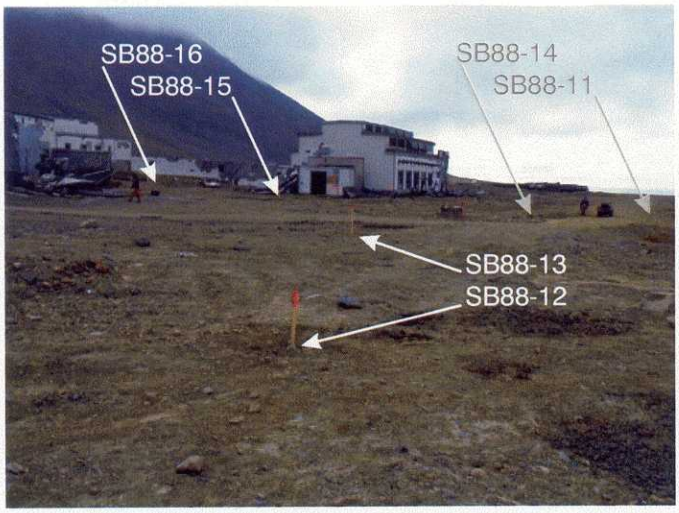
Monitoring Well 88-10



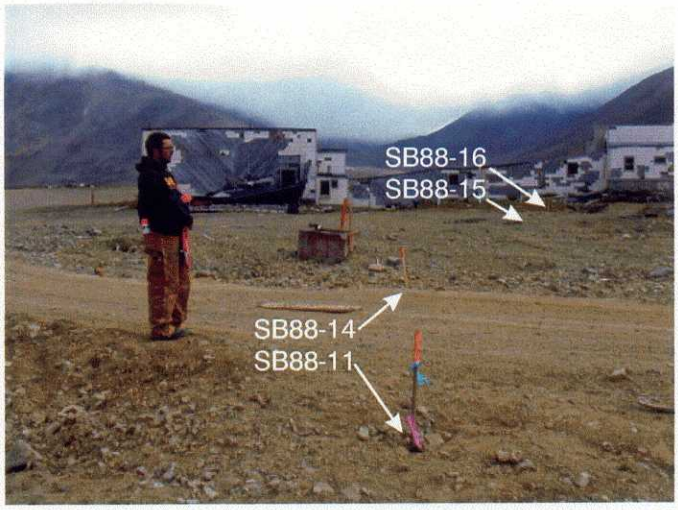
Soil Boring 88-11



Soil Boring 88-11



Soil Borings 88-12, 88-13



Soil Borings 88-11, 88-14, 88-15, 88-16

MWH
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Anchorage, Alaska

Site 88 (Sites 13, 15, 19 & 27) Main Operations Complex

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

NORTHEAST CAPE 2002 RI PHOTOS

JOB No. 1850574.260160



Soil Boring 88-17



Soil Boring 88-18

JOB No. 1850574.260160

MWH
MONTGOMERY WATSON HARZA
Anchorage, Alaska

Site 88 (Sites 13, 15, 19 & 27) Main Operations Complex

U.S. ARMY ENGINEER DISTRICT, ALASKA
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA

NORTHEAST CAPE 2002 RI PHOTOS

Appendix D

Summary of Analytical Results Site 3 and Site 4
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
Site 3								
01NE03WP102	Ground Water	AK102	DRO	3.3	mg/L	0.25	0.02	
		AK103	RRO	1.3	mg/L	0.50	0.50	VJ
01NE03WP103	Ground Water	AK102	DRO	2.4	mg/L	1.2	0.12	
		AK103	RRO	8.1	mg/L	2.5	2.5	VJ
01NE03WP104	Ground Water	AK102	DRO	1.8	mg/L	1.2	0.12	
		AK103	RRO	6.3	mg/L	2.5	2.5	VJ
Site 4								
01NE04WP102	Ground Water	AK102	DRO	1.4	mg/L	1.2	0.12	VB
		AK103	RRO	6.5	mg/L	2.5	2.5	VJ
01NE04WP103	Ground Water	AK102	DRO	2.0	mg/L	1.2	0.12	VB
		AK103	RRO	5.4	mg/L	2.5	2.5	VJ
01NE04WP104	Ground Water	AK102	DRO	0.96	mg/L	0.25	0.02	VB
		AK103	RRO	2.6	mg/L	0.50	0.50	VJ

Key:
DRO - diesel range organics
MDL - method detection limit
mg/L - milligram per liter
MRL - method reporting limit
RRO - residual range organics
VB - The analyte was detected in the assoicated blank and the sample indicating possible contamination.
VJ - The analyte was positively identified; the quantitaion is an estimation.

Summary of Analytical Results Site 6
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE06SD116	Sediment	SW8260 SIM	Benzene	ND	mg/Kg	0.011	0.011	
			Ethylbenzene	0.012	mg/Kg	0.011	0.0055	VB
			m,p-Xylene (sum)	0.044	mg/Kg	0.022	0.022	VB
			o-Xylene	0.014	mg/Kg	0.011	0.0094	VB
			Toluene	0.078	mg/Kg	0.011	0.011	VB
		AK101	GRO	ND	mg/Kg	26.1	9.03	
		AK102	DRO	110	mg/Kg	10	1.8	
		AK103	RRO	880	mg/Kg	20	20	VJ
		E200.8	Arsenic	1.6	mg/Kg	0.7	0.1	
		SW6010B	Aluminum	7790	mg/Kg	7	4	
			Antimony	ND	mg/Kg	20	5	
			Barium	53	mg/Kg	1	0.1	
			Beryllium	0.6	mg/Kg	0.4	0.1	
			Cadmium	ND	mg/Kg	0.7	0.3	
			Calcium	1790	mg/Kg	20	0.1	
			Chromium	6	mg/Kg	2	0.5	
			Cobalt	2	mg/Kg	1	0.2	
			Copper	7.4	mg/Kg	0.7	0.7	
			Iron	12200	mg/Kg	7	2	
			Lead	8	mg/Kg	7	2	
			Magnesium	1530	mg/Kg	7	3	
			Manganese	72.7	mg/Kg	0.4	0.1	
			Nickel	5	mg/Kg	4	1	
			Potassium	1500	mg/Kg	180	100	
			Selenium	ND	mg/Kg	20	4	
			Silver	ND	mg/Kg	1	0.3	
			Sodium	450	mg/Kg	20	5	
			Thallium	ND	mg/Kg	20	2	
			Vanadium	16	mg/Kg	1	0.6	
			Zinc	20	mg/Kg	2	1	
		SW7471A	Mercury	ND	mg/Kg	0.2	0.05	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.13	0.0358	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.27	0.043	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.13	0.0185	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.13	0.0219	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.13	0.0144	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.13	0.0434	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.13	0.0352	
01NE06SD117	Sediment	SW8260 SIM	Benzene	ND	mg/Kg	0.00067	0.00067	
			Ethylbenzene	0.00088	mg/Kg	0.00067	0.00033	VB
			m,p-Xylene (sum)	0.0033	mg/Kg	0.0013	0.0013	VB
			o-Xylene	0.001	mg/Kg	0.00067	0.00056	VB
			Toluene	0.0047	mg/Kg	0.00067	0.00063	VB
		AK101	GRO	ND	mg/Kg	9.09	3.15	
		AK102	DRO	40	mg/Kg	5	0.58	
		AK103	RRO	220	mg/Kg	10	10	VJ
		E200.8	Arsenic	4.1	mg/Kg	0.3	0.06	
		SW6010B	Aluminum	9850	mg/Kg	2	1	
			Antimony	ND	mg/Kg	6	2	
			Barium	53.8	mg/Kg	0.4	0.05	
			Beryllium	0.8	mg/Kg	0.1	0.04	
			Cadmium	ND	mg/Kg	0.2	0.1	
			Calcium	2360	mg/Kg	6	0.04	
			Chromium	13.9	mg/Kg	0.6	0.2	
			Cobalt	5.1	mg/Kg	0.4	0.07	
			Copper	8	mg/Kg	0.2	0.2	
			Iron	16400	mg/Kg	2	0.8	
			Lead	15	mg/Kg	2	0.8	

Summary of Analytical Results Site 6
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE06SD117	Sediment	SW6010B	Magnesium	2900	mg/Kg	2	1	
			Manganese	164	mg/Kg	0.1	0.04	
			Nickel	9	mg/Kg	1	0.4	
			Potassium	820	mg/Kg	60	50	
			Selenium	ND	mg/Kg	6	1	
			Silver	ND	mg/Kg	0.4	0.09	
			Sodium	160	mg/Kg	6	2	
			Thallium	ND	mg/Kg	6	0.8	
			Vanadium	25.8	mg/Kg	0.4	0.2	
			Zinc	29.8	mg/Kg	0.7	0.4	
		SW7471A	Mercury	ND	mg/Kg	0.06	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.043	0.0115	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.086	0.0137	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.043	0.00593	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.043	0.007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.043	0.0046	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.043	0.0139	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.043	0.0113	
01NE06SW116	Surface water	AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
01NE06TP101	Subsurface soil test pit Depth-5.3 feet bgs	AK102	DRO	2000	mg/Kg	50	5	
		AK103	RRO	3400	mg/Kg	100	100	VJ
		DU	otal Organic Carbon (TOC	2	PERCENT	0.005	0.005	
		E160.3	Total Solids	89.2	PERCENT	0.01	0.01	
01NE06TP102	Subsurface soil test pit Depth-5.0 feet bgs	AK102	DRO	3000	mg/Kg	250	25	
		AK103	RRO	8500	mg/Kg	500	500	VJ
		DU	otal Organic Carbon (TOC	2.6	PERCENT	0.005	0.005	
		E160.3	Total Solids	88	PERCENT	0.01	0.01	
01NE06TP201	Subsurface soil test pit	AK102	DRO	860	mg/Kg	50	4.9	
		AK103	RRO	1300	mg/Kg	100	100	VJ
01NE06WP102	Ground Water	AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
01NE06WP103	Ground Water	SW8021	Benzene	ND	mg/L	0.001	0.0002	
			Ethylbenzene	ND	mg/L	0.001	0.00019	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00021	
			o-Xylene	ND	mg/L	0.001	0.00015	
			Toluene	ND	mg/L	0.001	0.0002	
		AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	0.29	mg/L	0.25	0.02	VB
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW6010B	Aluminum	78.3	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.406	mg/L	0.003	0.0004	
			Beryllium	0.004	mg/L	0.001	0.0003	
			Cadmium	0.006	mg/L	0.002	0.00084	
			Calcium	15.8	mg/L	0.05	0.0003	
			Chromium	1.22	mg/L	0.005	0.0013	
			Cobalt	0.052	mg/L	0.003	0.0006	
			Copper	0.26	mg/L	0.002	0.002	
			Iron	98.8	mg/L	0.02	0.0063	
			Magnesium	15.6	mg/L	0.02	0.0084	
			Manganese	1.58	mg/L	0.001	0.0003	
			Nickel	1.68	mg/L	0.01	0.0034	
			Potassium	7.92	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	17.7	mg/L	0.05	0.015	
			Vanadium	0.153	mg/L	0.003	0.0017	
			Zinc	17.7	mg/L	0.006	0.0029	

Summary of Analytical Results Site 6
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE06WP103	Ground Water	SW7060A	Arsenic	0.022	mg/L	0.002	0.0011	
		SW7421	Lead	0.16	mg/L	0.01	0.0086	
01NE06WP103	Ground Water	SW7470A	Mercury	0.0001	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.004	0.0017	
		SW7841	Thallium	0.002	mg/L	0.002	0.0016	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	

Key:
DRO - diesel range organics
MDL - method detection limit
mg/L - milligram per liter
MRL - method reporting limit
RRO - residual range organics
SIM - selected ion monitoring
VB - The analyte was detected in the assoicated blank and the sample indicating possible contamination.
VJ - The analyte was positively identified; the quantitaion is an estimation.
VQQ - The practical quantation limit is approximate due to QC or matrix effects.

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07SD104	Sediment	AK102	DRO	1400	mg/Kg	59	11	
		AK103	RRO	2800	mg/Kg	120	120	VJ
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.014	0.014	
			Acenaphthene	ND	mg/Kg	0.014	0.0096	
			Acenaphthylene	ND	mg/Kg	0.014	0.0093	
			Anthracene	ND	mg/Kg	0.014	0.0093	
			Benzo(a)anthracene	ND	mg/Kg	0.014	0.0079	
			Benzo(a)pyrene	ND	mg/Kg	0.014	0.0068	
			Benzo(b)fluoranthene	0.014	mg/Kg	0.014	0.0091	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.014	0.0079	
			Benzo(k)fluoranthene	0.014	mg/Kg	0.014	0.007	
			Chrysene	0.035	mg/Kg	0.014	0.0066	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.014	0.0068	
			Dibenzofuran	ND	mg/Kg	0.014	0.014	
			Fluoranthene	ND	mg/Kg	0.014	0.0072	
			Fluorene	ND	mg/Kg	0.014	0.011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.014	0.0098	
			Naphthalene	ND	mg/Kg	0.014	0.013	
			Phenanthrene	ND	mg/Kg	0.014	0.0091	
			Pyrene	0.026	mg/Kg	0.014	0.0081	
		E200.8	Arsenic	3.3	mg/Kg	0.6	0.1	
		SW6010B	Aluminum	12000	mg/Kg	6	4	
			Antimony	ND	mg/Kg	20	5	
			Barium	77.4	mg/Kg	1	0.1	
			Beryllium	1.2	mg/Kg	0.3	0.1	
			Cadmium	1	mg/Kg	0.6	0.3	
			Calcium	3040	mg/Kg	20	0.1	
			Chromium	19	mg/Kg	2	0.4	
			Cobalt	3.2	mg/Kg	1	0.2	
			Copper	27.5	mg/Kg	0.6	0.6	
			Iron	18400	mg/Kg	6	2	
			Lead	41	mg/Kg	6	2	
			Magnesium	2140	mg/Kg	6	3	
			Manganese	79.5	mg/Kg	0.3	0.1	
			Nickel	13	mg/Kg	3	1	
			Potassium	1000	mg/Kg	160	100	
			Selenium	ND	mg/Kg	20	3	
			Silver	ND	mg/Kg	1	0.2	
			Sodium	180	mg/Kg	20	5	
			Thallium	ND	mg/Kg	20	2	
			Vanadium	25.4	mg/Kg	1	0.5	
			Zinc	203	mg/Kg	2	0.9	
		SW7471A	Mercury	0.1	mg/Kg	0.1	0.04	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.079	0.0211	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.16	0.0253	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.079	0.0109	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.079	0.0129	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.079	0.00846	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.079	0.0255	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.079	0.0207	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.15	0.062	
			1,1,1-Trichloroethane	0.28	mg/Kg	0.15	0.042	
			1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.15	0.1	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/Kg	0.15	0.036	
			1,1,2-Trichloroethane	ND	mg/Kg	0.15	0.043	
			1,1-Dichloroethane	ND	mg/Kg	0.15	0.056	
			1,1-Dichloroethene	ND	mg/Kg	0.15	0.048	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07SD104	Sediment	SW8260	1,1-Dichloropropene	ND	mg/Kg	0.15	0.045	
			1,2,3-Trichlorobenzene	ND	mg/Kg	0.77	0.071	
			1,2,3-Trichloropropane	ND	mg/Kg	0.31	0.09	
			1,2,4-Trichlorobenzene	ND	mg/Kg	0.77	0.068	
			1,2,4-Trimethylbenzene	ND	mg/Kg	0.15	0.059	
			1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.77	0.11	
			1,2-Dibromoethane	ND	mg/Kg	0.15	0.046	
			1,2-Dichlorobenzene	ND	mg/Kg	0.15	0.067	
			1,2-Dichloroethane	ND	mg/Kg	0.15	0.033	
			1,2-Dichloropropane	ND	mg/Kg	0.15	0.036	
			1,3,5-Trimethylbenzene	ND	mg/Kg	0.15	0.063	
			1,3-Dichlorobenzene	ND	mg/Kg	0.15	0.056	
			1,3-Dichloropropane	ND	mg/Kg	0.15	0.062	
			1,4-Dichlorobenzene	ND	mg/Kg	0.15	0.06	
			2,2-Dichloropropane	ND	mg/Kg	0.15	0.054	
			2-Butanone	ND	mg/Kg	0.77	0.72	
			2-Chloroethyl vinyl ether	ND	mg/Kg	0.77	0.068	
			2-Chlorotoluene	ND	mg/Kg	0.15	0.096	
			2-Hexanone	ND	mg/Kg	0.77	0.61	
			4-Chlorotoluene	ND	mg/Kg	0.15	0.059	
			4-Isopropyltoluene	ND	mg/Kg	0.15	0.06	
			4-Methyl-2-pentanone	ND	mg/Kg	0.77	0.48	
			Acetone	0.91	mg/Kg	0.77	0.72	
			Acrolein	ND	mg/Kg	7.7	0.98	
			Acrylamide	ND	mg/Kg	0.77	0.11	
			Benzene	ND	mg/Kg	0.15	0.039	
			Bromobenzene	ND	mg/Kg	0.15	0.062	
			Bromochloromethane	ND	mg/Kg	0.15	0.056	
			Bromodichloromethane	ND	mg/Kg	0.15	0.025	
			Bromoethane	ND	mg/Kg	0.31	0.065	
			Bromoform	ND	mg/Kg	0.15	0.048	
			Bromomethane	0.17	mg/Kg	0.15	0.1	VB
			Carbon disulfide	ND	mg/Kg	0.15	0.045	
			Carbon tetrachloride	ND	mg/Kg	0.15	0.036	
			Chlorobenzene	ND	mg/Kg	0.15	0.053	
			Chloroethane	ND	mg/Kg	0.15	0.053	
			Chloroform	ND	mg/Kg	0.15	0.043	
			Chloromethane	ND	mg/Kg	0.15	0.042	
			cis-1,2-Dichloroethene	ND	mg/Kg	0.15	0.043	
			cis-1,3-Dichloropropene	ND	mg/Kg	0.15	0.036	
			Dibromochloromethane	ND	mg/Kg	0.15	0.042	
			Dibromomethane	ND	mg/Kg	0.15	0.042	
			Ethylbenzene	ND	mg/Kg	0.15	0.057	
			Hexachlorobutadiene	ND	mg/Kg	0.77	0.21	
			Isopropylbenzene	ND	mg/Kg	0.15	0.065	
			m,p-Xylene (sum)	ND	mg/Kg	0.15	0.11	
			Methyl iodide	ND	mg/Kg	0.15	0.068	
			Methylene chloride	ND	mg/Kg	0.46	0.35	VQQ
			Naphthalene	ND	mg/Kg	0.77	0.11	
			n-Butylbenzene	ND	mg/Kg	0.31	0.067	
			n-Propylbenzene	ND	mg/Kg	0.15	0.059	
			o-Xylene	ND	mg/Kg	0.15	0.05	
			sec-Butylbenzene	ND	mg/Kg	0.15	0.076	
			Styrene	ND	mg/Kg	0.15	0.043	
			tert-Butylbenzene	ND	mg/Kg	0.15	0.068	
			Tetrachloroethene	ND	mg/Kg	0.15	0.079	
			Toluene	ND	mg/Kg	0.15	0.048	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07SD104	Sediment	SW8260	trans-1,2-Dichloroethene	ND	mg/Kg	0.15	0.048	
			trans-1,3-Dichloropropene	ND	mg/Kg	0.15	0.034	
			trans-1,4-Dichloro-2-butene	ND	mg/Kg	0.77	0.059	
			Trichloroethene	ND	mg/Kg	0.15	0.057	
			Trichlorofluoromethane	ND	mg/Kg	0.15	0.06	
			Vinyl acetate	ND	mg/Kg	0.77	0.11	
			Vinyl chloride	ND	mg/Kg	0.15	0.054	
01NE07SD105	Sediment	SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.05	0.05	
			Acenaphthene	ND	mg/Kg	0.05	0.033	
			Acenaphthylene	ND	mg/Kg	0.05	0.033	
			Anthracene	ND	mg/Kg	0.05	0.033	
			Benzo(a)anthracene	ND	mg/Kg	0.05	0.027	
			Benzo(a)pyrene	ND	mg/Kg	0.05	0.024	
			Benzo(b)fluoranthene	ND	mg/Kg	0.05	0.032	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.05	0.027	
			Benzo(k)fluoranthene	ND	mg/Kg	0.05	0.025	
			Chrysene	ND	mg/Kg	0.05	0.023	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.05	0.024	
			Dibenzofuran	ND	mg/Kg	0.05	0.05	
			Fluoranthene	ND	mg/Kg	0.05	0.025	
			Fluorene	ND	mg/Kg	0.05	0.037	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.05	0.034	
			Naphthalene	ND	mg/Kg	0.05	0.047	
			Phenanthrene	ND	mg/Kg	0.05	0.032	
			Pyrene	ND	mg/Kg	0.05	0.028	
		AK102	DRO	280	mg/Kg	21	3.8	
		AK103	RRO	1700	mg/Kg	42	42	VJ
		E200.8	Arsenic	4.1	mg/Kg	0.6	0.1	
		SW6010B	Aluminum	3640	mg/Kg	6	4	
			Antimony	ND	mg/Kg	20	5	
			Barium	28	mg/Kg	1	0.1	
			Beryllium	0.4	mg/Kg	0.3	0.1	
			Cadmium	1.1	mg/Kg	0.6	0.3	
			Calcium	1780	mg/Kg	20	0.1	
			Chromium	5	mg/Kg	2	0.4	
			Cobalt	2	mg/Kg	1	0.2	
			Copper	13.6	mg/Kg	0.6	0.6	
			Iron	8380	mg/Kg	6	2	
			Lead	20	mg/Kg	6	2	
			Magnesium	740	mg/Kg	6	3	
			Manganese	55.3	mg/Kg	0.3	0.1	
			Nickel	5	mg/Kg	3	1	
			Potassium	370	mg/Kg	160	100	
			Selenium	ND	mg/Kg	20	3	
			Silver	ND	mg/Kg	1	0.2	
			Sodium	120	mg/Kg	20	5	
			Thallium	ND	mg/Kg	20	2	
			Vanadium	9.8	mg/Kg	1	0.5	
			Zinc	62	mg/Kg	2	0.9	
		SW7471A	Mercury	ND	mg/Kg	0.1	0.04	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.28	0.0747	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.56	0.0895	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.28	0.0386	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.28	0.0456	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.28	0.0299	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.28	0.0903	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.28	0.0733	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07SD105	Sediment	SW8260	1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.2	0.08	
			1,1,1-Trichloroethane	0.2	mg/Kg	0.2	0.054	
			1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.2	0.13	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/Kg	0.2	0.046	
			1,1,2-Trichloroethane	ND	mg/Kg	0.2	0.056	
			1,1-Dichloroethane	ND	mg/Kg	0.2	0.072	
			1,1-Dichloroethene	ND	mg/Kg	0.2	0.062	
			1,1-Dichloropropene	ND	mg/Kg	0.2	0.058	
			1,2,3-Trichlorobenzene	ND	mg/Kg	1	0.092	
			1,2,3-Trichloropropane	ND	mg/Kg	0.4	0.12	
			1,2,4-Trichlorobenzene	ND	mg/Kg	1	0.088	
			1,2,4-Trimethylbenzene	ND	mg/Kg	0.2	0.076	
			1,2-Dibromo-3-chloropropane	ND	mg/Kg	1	0.14	
			1,2-Dibromoethane	ND	mg/Kg	0.2	0.06	
			1,2-Dichlorobenzene	ND	mg/Kg	0.2	0.086	
			1,2-Dichloroethane	ND	mg/Kg	0.2	0.042	
			1,2-Dichloropropane	ND	mg/Kg	0.2	0.046	
			1,3,5-Trimethylbenzene	ND	mg/Kg	0.2	0.082	
			1,3-Dichlorobenzene	ND	mg/Kg	0.2	0.072	
			1,3-Dichloropropane	ND	mg/Kg	0.2	0.08	
			1,4-Dichlorobenzene	ND	mg/Kg	0.2	0.078	
			2,2-Dichloropropane	ND	mg/Kg	0.2	0.07	
			2-Butanone	ND	mg/Kg	1	0.92	
			2-Chloroethyl vinyl ether	ND	mg/Kg	1	0.088	
			2-Chlorotoluene	ND	mg/Kg	0.2	0.12	
			2-Hexanone	ND	mg/Kg	1	0.78	
			4-Chlorotoluene	ND	mg/Kg	0.2	0.076	
			4-Isopropyltoluene	ND	mg/Kg	0.2	0.078	
			4-Methyl-2-pentanone	ND	mg/Kg	1	0.61	
			Acetone	1.4	mg/Kg	1	0.92	
			Acrolein	ND	mg/Kg	10	1.3	
			Acrylamide	ND	mg/Kg	1	0.15	
			Benzene	ND	mg/Kg	0.2	0.05	
			Bromobenzene	ND	mg/Kg	0.2	0.08	
			Bromochloromethane	ND	mg/Kg	0.2	0.072	
			Bromodichloromethane	ND	mg/Kg	0.2	0.032	
			Bromoethane	ND	mg/Kg	0.4	0.084	
			Bromoform	ND	mg/Kg	0.2	0.062	
			Bromomethane	0.4	mg/Kg	0.2	0.13	VB
			Carbon disulfide	ND	mg/Kg	0.2	0.058	
			Carbon tetrachloride	ND	mg/Kg	0.2	0.046	
			Chlorobenzene	ND	mg/Kg	0.2	0.068	
			Chloroethane	ND	mg/Kg	0.2	0.068	
			Chloroform	ND	mg/Kg	0.2	0.056	
			Chloromethane	ND	mg/Kg	0.2	0.054	
			cis-1,2-Dichloroethene	ND	mg/Kg	0.2	0.056	
			cis-1,3-Dichloropropene	ND	mg/Kg	0.2	0.046	
			Dibromochloromethane	ND	mg/Kg	0.2	0.054	
			Dibromomethane	ND	mg/Kg	0.2	0.054	
			Ethylbenzene	ND	mg/Kg	0.2	0.074	
			Hexachlorobutadiene	ND	mg/Kg	1	0.26	
			Isopropylbenzene	ND	mg/Kg	0.2	0.084	
			m,p-Xylene (sum)	ND	mg/Kg	0.2	0.15	
			Methyl iodide	ND	mg/Kg	0.2	0.088	
			Methylene chloride	ND	mg/Kg	0.6	0.45	VQQ
			Naphthalene	ND	mg/Kg	1	0.14	
			n-Butylbenzene	ND	mg/Kg	0.4	0.086	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07SD105	Sediment	SW8260	n-Propylbenzene	ND	mg/Kg	0.2	0.076	
			o-Xylene	ND	mg/Kg	0.2	0.064	
			sec-Butylbenzene	ND	mg/Kg	0.2	0.098	
			Styrene	ND	mg/Kg	0.2	0.056	
			tert-Butylbenzene	ND	mg/Kg	0.2	0.088	
			Tetrachloroethene	ND	mg/Kg	0.2	0.1	
			Toluene	ND	mg/Kg	0.2	0.062	
			trans-1,2-Dichloroethene	ND	mg/Kg	0.2	0.062	
			trans-1,3-Dichloropropene	ND	mg/Kg	0.2	0.044	
			trans-1,4-Dichloro-2-butene	ND	mg/Kg	1	0.076	
			Trichloroethene	ND	mg/Kg	0.2	0.074	
			Trichlorofluoromethane	ND	mg/Kg	0.2	0.078	
			Vinyl acetate	ND	mg/Kg	1	0.14	
			Vinyl chloride	ND	mg/Kg	0.2	0.07	
01NE07SS125	Surface soil	AK102	DRO	150	mg/Kg	25	2.7	
		AK103	RRO	620	mg/Kg	50	50	VJ
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.007	0.0069	
			Acenaphthene	ND	mg/Kg	0.007	0.0047	
			Acenaphthylene	ND	mg/Kg	0.007	0.0046	
			Anthracene	ND	mg/Kg	0.007	0.0046	
			Benzo(a)anthracene	ND	mg/Kg	0.007	0.0038	
			Benzo(a)pyrene	ND	mg/Kg	0.007	0.0033	
			Benzo(b)fluoranthene	ND	mg/Kg	0.007	0.0045	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.007	0.0038	
			Benzo(k)fluoranthene	ND	mg/Kg	0.007	0.0034	
			Chrysene	ND	mg/Kg	0.007	0.0032	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.007	0.0033	
			Dibenzofuran	ND	mg/Kg	0.007	0.0069	
			Fluoranthene	ND	mg/Kg	0.007	0.0035	
			Fluorene	ND	mg/Kg	0.007	0.0052	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.007	0.0048	
			Naphthalene	ND	mg/Kg	0.007	0.0065	
			Phenanthrene	ND	mg/Kg	0.007	0.0045	
			Pyrene	ND	mg/Kg	0.007	0.0039	
		SW6010B	Aluminum	10800	mg/Kg	10	6	
			Antimony	ND	mg/Kg	30	8	
			Arsenic	50	mg/Kg	30	7	
			Barium	63	mg/Kg	2	0.2	
			Beryllium	0.8	mg/Kg	0.6	0.2	
			Cadmium	2	mg/Kg	1	0.5	
			Calcium	2050	mg/Kg	30	0.2	
			Chromium	64	mg/Kg	3	0.7	
			Cobalt	17	mg/Kg	2	0.3	
			Copper	91	mg/Kg	1	1	
			Iron	152000	mg/Kg	10	4	
			Lead	350	mg/Kg	10	4	
			Magnesium	2630	mg/Kg	10	5	
			Manganese	694	mg/Kg	0.6	0.2	
			Nickel	37	mg/Kg	6	2	
			Potassium	900	mg/Kg	280	200	
			Selenium	ND	mg/Kg	30	5	
			Silver	2	mg/Kg	2	0.4	
			Sodium	180	mg/Kg	30	8	
			Thallium	ND	mg/Kg	30	3	
			Vanadium	30	mg/Kg	2	0.9	
			Zinc	175	mg/Kg	3	2	
		SW7471A	Mercury	0.56	mg/Kg	0.04	0.01	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07SS125	Surface soil	SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.039	0.0105	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.079	0.0126	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.039	0.00544	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.039	0.00643	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.039	0.00422	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.039	0.0127	
			PCB-1260 (Aroclor 1260)	1.1	mg/Kg	0.039	0.0103	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.062	0.025	
			1,1,1-Trichloroethane	ND	mg/Kg	0.062	0.017	
			1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.062	0.041	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/Kg	0.062	0.014	
			1,1,2-Trichloroethane	ND	mg/Kg	0.062	0.017	
			1,1-Dichloroethane	ND	mg/Kg	0.062	0.022	
			1,1-Dichloroethene	ND	mg/Kg	0.062	0.019	
			1,1-Dichloropropene	ND	mg/Kg	0.062	0.018	
			1,2,3-Trichlorobenzene	ND	mg/Kg	0.31	0.028	
			1,2,3-Trichloropropane	ND	mg/Kg	0.12	0.036	
			1,2,4-Trichlorobenzene	ND	mg/Kg	0.31	0.027	
			1,2,4-Trimethylbenzene	ND	mg/Kg	0.062	0.023	
			1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.31	0.044	
			1,2-Dibromoethane	ND	mg/Kg	0.062	0.019	
			1,2-Dichlorobenzene	ND	mg/Kg	0.062	0.027	
			1,2-Dichloroethane	ND	mg/Kg	0.062	0.013	
			1,2-Dichloropropane	ND	mg/Kg	0.062	0.014	
			1,3,5-Trimethylbenzene	ND	mg/Kg	0.062	0.025	
			1,3-Dichlorobenzene	ND	mg/Kg	0.062	0.022	
			1,3-Dichloropropane	ND	mg/Kg	0.062	0.025	
			1,4-Dichlorobenzene	ND	mg/Kg	0.062	0.024	
			2,2-Dichloropropane	ND	mg/Kg	0.062	0.022	
			2-Butanone	ND	mg/Kg	0.31	0.29	
			2-Chloroethyl vinyl ether	ND	mg/Kg	0.31	0.027	
			2-Chlorotoluene	ND	mg/Kg	0.062	0.038	
			2-Hexanone	ND	mg/Kg	0.31	0.24	
			4-Chlorotoluene	ND	mg/Kg	0.062	0.023	
			4-Isopropyltoluene	ND	mg/Kg	0.062	0.024	
			4-Methyl-2-pentanone	ND	mg/Kg	0.31	0.19	
			Acetone	ND	mg/Kg	0.31	0.29	
			Acrolein	ND	mg/Kg	3.1	0.39	
			Acrylamide	ND	mg/Kg	0.31	0.045	
			Benzene	ND	mg/Kg	0.062	0.015	
			Bromobenzene	ND	mg/Kg	0.062	0.025	
			Bromochloromethane	ND	mg/Kg	0.062	0.022	
			Bromodichloromethane	ND	mg/Kg	0.062	0.0099	
			Bromoethane	ND	mg/Kg	0.12	0.026	
			Bromoform	ND	mg/Kg	0.062	0.019	
			Bromomethane	0.098	mg/Kg	0.062	0.04	VB
			Carbon disulfide	ND	mg/Kg	0.062	0.018	
			Carbon tetrachloride	ND	mg/Kg	0.062	0.014	
			Chlorobenzene	ND	mg/Kg	0.062	0.021	
			Chloroethane	ND	mg/Kg	0.062	0.021	
			Chloroform	ND	mg/Kg	0.062	0.017	
			Chloromethane	ND	mg/Kg	0.062	0.017	
			cis-1,2-Dichloroethene	ND	mg/Kg	0.062	0.017	
			cis-1,3-Dichloropropene	ND	mg/Kg	0.062	0.014	
			Dibromochloromethane	ND	mg/Kg	0.062	0.017	
			Dibromomethane	ND	mg/Kg	0.062	0.017	
			Ethylbenzene	ND	mg/Kg	0.062	0.023	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07SS125	Surface soil	SW8260	Hexachlorobutadiene	ND	mg/Kg	0.31	0.082	
			Isopropylbenzene	ND	mg/Kg	0.062	0.026	
			m,p-Xylene (sum)	ND	mg/Kg	0.062	0.046	
			Methyl iodide	ND	mg/Kg	0.062	0.027	
			Methylene chloride	ND	mg/Kg	0.19	0.14	VQQ
			Naphthalene	ND	mg/Kg	0.31	0.044	
			n-Butylbenzene	ND	mg/Kg	0.12	0.027	
			n-Propylbenzene	ND	mg/Kg	0.062	0.023	
			o-Xylene	ND	mg/Kg	0.062	0.02	
			sec-Butylbenzene	ND	mg/Kg	0.062	0.03	
			Styrene	ND	mg/Kg	0.062	0.017	
			tert-Butylbenzene	ND	mg/Kg	0.062	0.027	
			Tetrachloroethene	ND	mg/Kg	0.062	0.031	
			Toluene	ND	mg/Kg	0.062	0.019	
			trans-1,2-Dichloroethene	ND	mg/Kg	0.062	0.019	
			trans-1,3-Dichloropropene	ND	mg/Kg	0.062	0.014	
			trans-1,4-Dichloro-2-butene	ND	mg/Kg	0.31	0.023	
			Trichloroethene	ND	mg/Kg	0.062	0.023	
			Trichlorofluoromethane	ND	mg/Kg	0.062	0.024	
			Vinyl acetate	ND	mg/Kg	0.31	0.042	
			Vinyl chloride	ND	mg/Kg	0.062	0.022	
01NE07SS126	Surface soil	SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.013	0.013	
			Acenaphthene	ND	mg/Kg	0.013	0.0086	
			Acenaphthylene	ND	mg/Kg	0.013	0.0084	
			Anthracene	ND	mg/Kg	0.013	0.0084	
			Benzo(a)anthracene	ND	mg/Kg	0.013	0.0071	
			Benzo(a)pyrene	ND	mg/Kg	0.013	0.0061	
			Benzo(b)fluoranthene	ND	mg/Kg	0.013	0.0082	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.013	0.0071	
			Benzo(k)fluoranthene	ND	mg/Kg	0.013	0.0063	
			Chrysene	ND	mg/Kg	0.013	0.0059	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.013	0.0061	
			Dibenzofuran	ND	mg/Kg	0.013	0.013	
			Fluoranthene	ND	mg/Kg	0.013	0.0065	
			Fluorene	ND	mg/Kg	0.013	0.0095	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.013	0.0088	
			Naphthalene	ND	mg/Kg	0.013	0.012	
			Phenanthrene	ND	mg/Kg	0.013	0.0082	
			Pyrene	ND	mg/Kg	0.013	0.0072	
		AK102	DRO	160	mg/Kg	27	4.8	
		AK103	RRO	740	mg/Kg	54	54	VJ
		E200.8	Arsenic	17.3	mg/Kg	0.4	0.08	
		SW6010B	Aluminum	11700	mg/Kg	10	6	
			Antimony	ND	mg/Kg	30	7	
			Barium	78	mg/Kg	2	0.2	
			Beryllium	0.9	mg/Kg	0.5	0.2	
			Cadmium	3	mg/Kg	1	0.4	
			Calcium	5070	mg/Kg	30	0.2	
			Chromium	75	mg/Kg	3	0.7	
			Cobalt	19	mg/Kg	2	0.3	
			Copper	97	mg/Kg	1	1	
			Iron	112000	mg/Kg	10	3	
			Lead	460	mg/Kg	10	3	
			Magnesium	2900	mg/Kg	10	4	
			Manganese	520	mg/Kg	0.5	0.2	
			Nickel	43	mg/Kg	5	2	
			Potassium	1010	mg/Kg	260	200	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07SS126	Surface soil	SW6010B	Selenium	ND	mg/Kg	30	5	
			Silver	2	mg/Kg	2	0.4	
			Sodium	180	mg/Kg	30	7	
			Thallium	ND	mg/Kg	30	3	
			Vanadium	31	mg/Kg	2	0.9	
			Zinc	444	mg/Kg	3	1	
		SW7471A	Mercury	0.3	mg/Kg	0.1	0.03	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.071	0.0191	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.14	0.0229	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.071	0.00986	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.071	0.0116	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.071	0.00764	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.071	0.0231	
			PCB-1260 (Aroclor 1260)	0.13	mg/Kg	0.071	0.0187	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.11	0.043	
			1,1,1-Trichloroethane	ND	mg/Kg	0.11	0.029	
			1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.11	0.071	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/Kg	0.11	0.025	
			1,1,2-Trichloroethane	ND	mg/Kg	0.11	0.03	
			1,1-Dichloroethane	ND	mg/Kg	0.11	0.039	
			1,1-Dichloroethene	ND	mg/Kg	0.11	0.033	
			1,1-Dichloropropene	ND	mg/Kg	0.11	0.031	
			1,2,3-Trichlorobenzene	ND	mg/Kg	0.54	0.049	
			1,2,3-Trichloropropane	ND	mg/Kg	0.22	0.062	
			1,2,4-Trichlorobenzene	ND	mg/Kg	0.54	0.047	
			1,2,4-Trimethylbenzene	ND	mg/Kg	0.11	0.041	
			1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.54	0.077	
			1,2-Dibromoethane	ND	mg/Kg	0.11	0.032	
			1,2-Dichlorobenzene	ND	mg/Kg	0.11	0.046	
			1,2-Dichloroethane	ND	mg/Kg	0.11	0.023	
			1,2-Dichloropropane	ND	mg/Kg	0.11	0.025	
			1,3,5-Trimethylbenzene	ND	mg/Kg	0.11	0.044	
			1,3-Dichlorobenzene	ND	mg/Kg	0.11	0.039	
			1,3-Dichloropropane	ND	mg/Kg	0.11	0.043	
			1,4-Dichlorobenzene	ND	mg/Kg	0.11	0.042	
			2,2-Dichloropropane	ND	mg/Kg	0.11	0.038	
			2-Butanone	ND	mg/Kg	0.54	0.5	
			2-Chloroethyl vinyl ether	ND	mg/Kg	0.54	0.047	
			2-Chlorotoluene	ND	mg/Kg	0.11	0.067	
			2-Hexanone	ND	mg/Kg	0.54	0.42	
			4-Chlorotoluene	ND	mg/Kg	0.11	0.041	
			4-Isopropyltoluene	ND	mg/Kg	0.11	0.042	
			4-Methyl-2-pentanone	ND	mg/Kg	0.54	0.33	
			Acetone	0.84	mg/Kg	0.54	0.5	
			Acrolein	ND	mg/Kg	5.4	0.68	
			Acrylamide	ND	mg/Kg	0.54	0.078	
			Benzene	ND	mg/Kg	0.11	0.027	
			Bromobenzene	ND	mg/Kg	0.11	0.043	
			Bromochloromethane	ND	mg/Kg	0.11	0.039	
			Bromodichloromethane	ND	mg/Kg	0.11	0.017	
			Bromoethane	ND	mg/Kg	0.22	0.045	
			Bromoform	ND	mg/Kg	0.11	0.033	
			Bromomethane	0.2	mg/Kg	0.11	0.07	VB
			Carbon disulfide	ND	mg/Kg	0.11	0.031	
			Carbon tetrachloride	ND	mg/Kg	0.11	0.025	
			Chlorobenzene	ND	mg/Kg	0.11	0.037	
			Chloroethane	ND	mg/Kg	0.11	0.037	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07SS126	Surface soil	SW8260	Chloroform	ND	mg/Kg	0.11	0.03	
			Chloromethane	ND	mg/Kg	0.11	0.029	
			cis-1,2-Dichloroethene	ND	mg/Kg	0.11	0.03	
			cis-1,3-Dichloropropene	ND	mg/Kg	0.11	0.025	
			Dibromochloromethane	ND	mg/Kg	0.11	0.029	
			Dibromomethane	ND	mg/Kg	0.11	0.029	
			Ethylbenzene	ND	mg/Kg	0.11	0.04	
			Hexachlorobutadiene	ND	mg/Kg	0.54	0.14	
			Isopropylbenzene	ND	mg/Kg	0.11	0.045	
			m,p-Xylene (sum)	0.13	mg/Kg	0.11	0.08	
			Methyl iodide	ND	mg/Kg	0.11	0.047	
			Methylene chloride	ND	mg/Kg	0.32	0.24	VR
			Naphthalene	ND	mg/Kg	0.54	0.077	
			n-Butylbenzene	ND	mg/Kg	0.22	0.046	
			n-Propylbenzene	ND	mg/Kg	0.11	0.041	
			o-Xylene	ND	mg/Kg	0.11	0.034	
			sec-Butylbenzene	ND	mg/Kg	0.11	0.053	
			Styrene	ND	mg/Kg	0.11	0.03	
			tert-Butylbenzene	ND	mg/Kg	0.11	0.047	
			Tetrachloroethene	ND	mg/Kg	0.11	0.055	
			Toluene	0.14	mg/Kg	0.11	0.033	
			trans-1,2-Dichloroethene	ND	mg/Kg	0.11	0.033	
			trans-1,3-Dichloropropene	ND	mg/Kg	0.11	0.024	
			trans-1,4-Dichloro-2-butene	ND	mg/Kg	0.54	0.041	
			Trichloroethene	ND	mg/Kg	0.11	0.04	
			Trichlorofluoromethane	ND	mg/Kg	0.11	0.042	
			Vinyl acetate	ND	mg/Kg	0.54	0.073	
			Vinyl chloride	ND	mg/Kg	0.11	0.038	
01NE07SS127	Surface soil	AK102	DRO	720	mg/Kg	100	12	
		AK103	RRO	3600	mg/Kg	200	200	VJ
		SW8270 SIM	2-Methylnaphthalene	0.047	mg/Kg	0.008	0.0079	
			Acenaphthene	ND	mg/Kg	0.008	0.0053	
			Acenaphthylene	ND	mg/Kg	0.008	0.0052	
			Anthracene	ND	mg/Kg	0.008	0.0052	
			Benzo(a)anthracene	ND	mg/Kg	0.008	0.0044	
			Benzo(a)pyrene	0.082	mg/Kg	0.008	0.0038	
			Benzo(b)fluoranthene	ND	mg/Kg	0.008	0.0051	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.008	0.0044	
			Benzo(k)fluoranthene	ND	mg/Kg	0.008	0.0039	
			Chrysene	0.013	mg/Kg	0.008	0.0037	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.008	0.0038	
			Dibenzofuran	ND	mg/Kg	0.008	0.0079	
			Fluoranthene	ND	mg/Kg	0.008	0.004	
			Fluorene	ND	mg/Kg	0.008	0.0059	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.008	0.0054	
			Naphthalene	0.027	mg/Kg	0.008	0.0074	
			Phenanthrene	0.014	mg/Kg	0.008	0.0051	
			Pyrene	0.013	mg/Kg	0.008	0.0045	
		SW6010B	Aluminum	11300	mg/Kg	7	4	
			Antimony	ND	mg/Kg	20	5	
			Arsenic	30	mg/Kg	20	4	
			Barium	135	mg/Kg	1	0.1	
			Beryllium	0.9	mg/Kg	0.3	0.1	
			Cadmium	1.3	mg/Kg	0.7	0.3	
			Calcium	2860	mg/Kg	20	0.1	
			Chromium	65	mg/Kg	2	0.4	
			Cobalt	17	mg/Kg	1	0.2	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07SS127	Surface soil	SW6010B	Copper	120	mg/Kg	0.7	0.7	
			Iron	129000	mg/Kg	7	2	
			Lead	419	mg/Kg	7	2	
			Magnesium	3180	mg/Kg	7	3	
			Manganese	559	mg/Kg	0.3	0.1	
			Nickel	57	mg/Kg	3	1	
			Potassium	1080	mg/Kg	170	100	
			Selenium	ND	mg/Kg	20	3	
			Silver	ND	mg/Kg	1	0.2	
			Sodium	210	mg/Kg	20	5	
			Thallium	ND	mg/Kg	20	2	
			Vanadium	29	mg/Kg	1	0.6	
			Zinc	294	mg/Kg	2	1	
		SW7471A	Mercury	0.47	mg/Kg	0.05	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.044	0.0118	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.088	0.0141	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.044	0.00608	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.044	0.00718	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.044	0.00471	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.044	0.0142	
			PCB-1260 (Aroclor 1260)	13	mg/Kg	0.88	0.231	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.075	0.03	
			1,1,1-Trichloroethane	0.14	mg/Kg	0.075	0.02	
			1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.075	0.049	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/Kg	0.075	0.017	
			1,1,2-Trichloroethane	ND	mg/Kg	0.075	0.021	
			1,1-Dichloroethane	ND	mg/Kg	0.075	0.027	
			1,1-Dichloroethene	ND	mg/Kg	0.075	0.023	
			1,1-Dichloropropene	ND	mg/Kg	0.075	0.022	
			1,2,3-Trichlorobenzene	ND	mg/Kg	0.37	0.034	
			1,2,3-Trichloropropane	ND	mg/Kg	0.15	0.043	
			1,2,4-Trichlorobenzene	ND	mg/Kg	0.37	0.033	
			1,2,4-Trimethylbenzene	ND	mg/Kg	0.075	0.028	
			1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.37	0.054	
			1,2-Dibromoethane	ND	mg/Kg	0.075	0.022	
			1,2-Dichlorobenzene	ND	mg/Kg	0.075	0.032	
			1,2-Dichloroethane	ND	mg/Kg	0.075	0.016	
			1,2-Dichloropropane	ND	mg/Kg	0.075	0.017	
			1,3,5-Trimethylbenzene	ND	mg/Kg	0.075	0.031	
			1,3-Dichlorobenzene	ND	mg/Kg	0.075	0.027	
			1,3-Dichloropropane	ND	mg/Kg	0.075	0.03	
			1,4-Dichlorobenzene	ND	mg/Kg	0.075	0.029	
			2,2-Dichloropropane	ND	mg/Kg	0.075	0.026	
			2-Butanone	ND	mg/Kg	0.37	0.35	
			2-Chloroethyl vinyl ether	ND	mg/Kg	0.37	0.033	
			2-Chlorotoluene	ND	mg/Kg	0.075	0.046	
			2-Hexanone	ND	mg/Kg	0.37	0.29	
			4-Chlorotoluene	ND	mg/Kg	0.075	0.028	
			4-Isopropyltoluene	ND	mg/Kg	0.075	0.029	
			4-Methyl-2-pentanone	ND	mg/Kg	0.37	0.23	
			Acetone	ND	mg/Kg	0.37	0.35	
			Acrolein	ND	mg/Kg	3.7	0.47	
			Acrylamide	ND	mg/Kg	0.37	0.054	
			Benzene	ND	mg/Kg	0.075	0.019	
			Bromobenzene	ND	mg/Kg	0.075	0.03	
			Bromochloromethane	ND	mg/Kg	0.075	0.027	
			Bromodichloromethane	ND	mg/Kg	0.075	0.012	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07SS127	Surface soil	SW8260	Bromoethane	ND	mg/Kg	0.15	0.031	
			Bromoform	ND	mg/Kg	0.075	0.023	
			Bromomethane	0.17	mg/Kg	0.075	0.049	VB
			Carbon disulfide	ND	mg/Kg	0.075	0.022	
			Carbon tetrachloride	ND	mg/Kg	0.075	0.017	
			Chlorobenzene	ND	mg/Kg	0.075	0.025	
			Chloroethane	ND	mg/Kg	0.075	0.025	
			Chloroform	ND	mg/Kg	0.075	0.021	
			Chloromethane	ND	mg/Kg	0.075	0.02	
			cis-1,2-Dichloroethene	ND	mg/Kg	0.075	0.021	
			cis-1,3-Dichloropropene	ND	mg/Kg	0.075	0.017	
			Dibromochloromethane	ND	mg/Kg	0.075	0.02	
			Dibromomethane	ND	mg/Kg	0.075	0.02	
			Ethylbenzene	ND	mg/Kg	0.075	0.028	
			Hexachlorobutadiene	ND	mg/Kg	0.37	0.099	
			Isopropylbenzene	ND	mg/Kg	0.075	0.031	
			m,p-Xylene (sum)	ND	mg/Kg	0.075	0.055	
			Methyl iodide	ND	mg/Kg	0.075	0.033	
			Methylene chloride	ND	mg/Kg	0.22	0.17	VQQ
			Naphthalene	ND	mg/Kg	0.37	0.054	
			n-Butylbenzene	ND	mg/Kg	0.15	0.032	
			n-Propylbenzene	ND	mg/Kg	0.075	0.028	
			o-Xylene	ND	mg/Kg	0.075	0.024	
			sec-Butylbenzene	ND	mg/Kg	0.075	0.037	
			Styrene	ND	mg/Kg	0.075	0.021	
			tert-Butylbenzene	ND	mg/Kg	0.075	0.033	
			Tetrachloroethene	ND	mg/Kg	0.075	0.038	
			Toluene	ND	mg/Kg	0.075	0.023	
			trans-1,2-Dichloroethene	ND	mg/Kg	0.075	0.023	
			trans-1,3-Dichloropropene	ND	mg/Kg	0.075	0.016	
			trans-1,4-Dichloro-2-butene	ND	mg/Kg	0.37	0.028	
			Trichloroethene	ND	mg/Kg	0.075	0.028	
			Trichlorofluoromethane	ND	mg/Kg	0.075	0.029	
			Vinyl acetate	ND	mg/Kg	0.37	0.051	
			Vinyl chloride	ND	mg/Kg	0.075	0.026	
01NE07SW104	Surface Water	SW8270 SIM	2-Methylnaphthalene	ND	mg/L	5E-05	0.00005	
			Acenaphthene	ND	mg/L	5E-05	0.00004	
			Acenaphthylene	ND	mg/L	5E-05	0.00005	
			Anthracene	ND	mg/L	5E-05	0.00002	
			Benzo(a)anthracene	ND	mg/L	5E-05	0.00002	
			Benzo(a)pyrene	ND	mg/L	5E-05	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	5E-05	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	5E-05	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	5E-05	0.00002	
			Chrysene	ND	mg/L	5E-05	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	5E-05	0.00005	
			Dibenzofuran	ND	mg/L	5E-05	0.00005	
			Fluoranthene	ND	mg/L	5E-05	0.00005	
			Fluorene	ND	mg/L	5E-05	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	5E-05	0.00004	
			Naphthalene	ND	mg/L	5E-05	0.00005	
			Phenanthrene	ND	mg/L	5E-05	0.00004	
			Pyrene	ND	mg/L	5E-05	0.00005	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW6010B	Aluminum	0.32	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07SW104	Surface Water	SW6010B	Barium	0.008	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	3.32	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	
			Cobalt	ND	mg/L	0.003	0.0006	
			Copper	0.003	mg/L	0.002	0.002	
			Iron	1.16	mg/L	0.02	0.0063	
			Magnesium	1.28	mg/L	0.02	0.0084	
			Manganese	0.007	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	0.81	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	6.29	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	0.02	mg/L	0.006	0.0029	
		SW7060A	Arsenic	ND	mg/L	0.001	0.00054	
		SW7421	Lead	0.004	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	1E-04	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	
		AK101	GRO	ND	mg/L	0.25	0.1	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.00283	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.00113	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07SW104	Surface Water	SW8260	4-Methyl-2-pentanone	ND	mg/L	0.005	0.00138	
			Acetone	ND	mg/L	0.005	0.00304	
			Acrolein	ND	mg/L	0.05	0.00414	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
		AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
01NE07SW105	Surface Water	SW8270 SIM	2-Methylnaphthalene	ND	mg/L	5E-05	0.00005	
			Acenaphthene	ND	mg/L	5E-05	0.00004	
			Acenaphthylene	ND	mg/L	5E-05	0.00005	
			Anthracene	ND	mg/L	5E-05	0.00002	
			Benzo(a)anthracene	ND	mg/L	5E-05	0.00002	
			Benzo(a)pyrene	ND	mg/L	5E-05	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	5E-05	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	5E-05	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	5E-05	0.00002	
			Chrysene	ND	mg/L	5E-05	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	5E-05	0.00005	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07SW105	Surface Water	SW8270 SIM	Dibenzofuran	ND	mg/L	5E-05	0.00005	
			Fluoranthene	ND	mg/L	5E-05	0.00005	
			Fluorene	ND	mg/L	5E-05	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	5E-05	0.00004	
			Naphthalene	ND	mg/L	5E-05	0.00005	
			Phenanthrene	ND	mg/L	5E-05	0.00004	
			Pyrene	ND	mg/L	5E-05	0.00005	
		SW6010B	Aluminum	0.24	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.012	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	4.99	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	
			Cobalt	ND	mg/L	0.003	0.0006	
			Copper	0.002	mg/L	0.002	0.002	
			Iron	3.66	mg/L	0.02	0.0063	
			Magnesium	1.44	mg/L	0.02	0.0084	
			Manganese	0.096	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	ND	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	4.72	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	0.019	mg/L	0.006	0.0029	
		SW7060A	Arsenic	ND	mg/L	0.001	0.00054	
		SW7421	Lead	0.002	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	1E-04	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07SW105	Surface Water	SW8260	1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.00283	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.00113	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.00138	
			Acetone	ND	mg/L	0.005	0.00304	
			Acrolein	ND	mg/L	0.05	0.00414	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE07WP101	Ground Water	AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	0.66	mg/L	0.25	0.02	
		AK103	RRO	2.7	mg/L	0.5	0.5	VJ
		SW8270 SIM	2-Methylnaphthalene	ND	mg/L	5E-05	0.00005	
			Acenaphthene	ND	mg/L	5E-05	0.00004	
			Acenaphthylene	ND	mg/L	5E-05	0.00005	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07WP101	Ground Water	SW8270 SIM	Anthracene	ND	mg/L	5E-05	0.00002	
			Benzo(a)anthracene	ND	mg/L	5E-05	0.00002	
			Benzo(a)pyrene	ND	mg/L	5E-05	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	5E-05	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	5E-05	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	5E-05	0.00002	
			Chrysene	ND	mg/L	5E-05	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	5E-05	0.00005	
			Dibenzofuran	ND	mg/L	5E-05	0.00005	
			Fluoranthene	ND	mg/L	5E-05	0.00005	
			Fluorene	ND	mg/L	5E-05	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	5E-05	0.00004	
			Naphthalene	ND	mg/L	5E-05	0.00005	
			Phenanthrene	ND	mg/L	5E-05	0.00004	
			Pyrene	ND	mg/L	5E-05	0.00005	
		SW6010B	Aluminum	10.6	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.126	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	7.57	mg/L	0.05	0.0003	
			Chromium	0.255	mg/L	0.005	0.0013	
			Cobalt	0.064	mg/L	0.003	0.0006	
			Copper	0.067	mg/L	0.002	0.002	
			Iron	47.1	mg/L	0.02	0.0063	
			Magnesium	3.77	mg/L	0.02	0.0084	
			Manganese	0.593	mg/L	0.001	0.0003	
			Nickel	3.54	mg/L	0.01	0.0034	
			Potassium	5.26	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	8.48	mg/L	0.05	0.015	
			Vanadium	0.079	mg/L	0.003	0.0017	
			Zinc	2.47	mg/L	0.006	0.0029	
		SW7060A	Arsenic	0.01	mg/L	0.001	0.00054	
		SW7421	Lead	0.04	mg/L	0.005	0.0043	
		SW7470A	Mercury	0.0002	mg/L	1E-04	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07WP101	Ground Water	SW8260	1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.00283	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.00113	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.00138	
			Acetone	0.019	mg/L	0.005	0.00304	
			Acrolein	ND	mg/L	0.05	0.00414	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07WP101	Ground Water	SW8260	Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE07WP102	Ground Water	SW8270 SIM	2-Methylnaphthalene	ND	mg/L	5E-05	0.00005	
			Acenaphthene	ND	mg/L	5E-05	0.00004	
			Acenaphthylene	ND	mg/L	5E-05	0.00005	
			Anthracene	ND	mg/L	5E-05	0.00002	
			Benzo(a)anthracene	ND	mg/L	5E-05	0.00002	
			Benzo(a)pyrene	ND	mg/L	5E-05	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	5E-05	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	5E-05	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	5E-05	0.00002	
			Chrysene	ND	mg/L	5E-05	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	5E-05	0.00005	
			Dibenzofuran	ND	mg/L	5E-05	0.00005	
			Fluoranthene	ND	mg/L	5E-05	0.00005	
			Fluorene	ND	mg/L	5E-05	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	5E-05	0.00004	
			Naphthalene	ND	mg/L	5E-05	0.00005	
			Phenanthrene	ND	mg/L	5E-05	0.00004	
			Pyrene	ND	mg/L	5E-05	0.00005	
		AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	1.1	mg/L	0.5	0.5	VJ
		SW6010B	Aluminum	25.8	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.13	mg/L	0.003	0.0004	
			Beryllium	0.002	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	4.31	mg/L	0.05	0.0003	
			Chromium	0.014	mg/L	0.005	0.0013	
			Cobalt	0.004	mg/L	0.003	0.0006	
			Copper	0.018	mg/L	0.002	0.002	
			Iron	18.7	mg/L	0.02	0.0063	
			Magnesium	3.62	mg/L	0.02	0.0084	
			Manganese	0.06	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	2.25	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	10.3	mg/L	0.05	0.015	
			Vanadium	0.035	mg/L	0.003	0.0017	
			Zinc	0.023	mg/L	0.006	0.0029	
		SW7060A	Arsenic	0.004	mg/L	0.001	0.00054	
		SW7421	Lead	0.017	mg/L	0.001	0.00086	
		SW7470A	Mercury	0.0002	mg/L	1E-04	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/L	0.002	0.0003	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07WP102	Ground Water	SW8260	1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.00283	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.00113	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.00138	
			Acetone	ND	mg/L	0.005	0.00304	
			Acrolein	ND	mg/L	0.05	0.00414	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07WP102	Ground Water	SW8260	tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE07WP103	Ground Water	SW8270 SIM	2-Methylnaphthalene	ND	mg/L	5E-05	0.00005	
			Acenaphthene	ND	mg/L	5E-05	0.00004	
			Acenaphthylene	ND	mg/L	5E-05	0.00005	
			Anthracene	ND	mg/L	5E-05	0.00002	
			Benzo(a)anthracene	ND	mg/L	5E-05	0.00002	
			Benzo(a)pyrene	ND	mg/L	5E-05	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	5E-05	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	5E-05	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	5E-05	0.00002	
			Chrysene	ND	mg/L	5E-05	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	5E-05	0.00005	
			Dibenzofuran	ND	mg/L	5E-05	0.00005	
			Fluoranthene	ND	mg/L	5E-05	0.00005	
			Fluorene	ND	mg/L	5E-05	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	5E-05	0.00004	
			Naphthalene	ND	mg/L	5E-05	0.00005	
			Phenanthrene	ND	mg/L	5E-05	0.00004	
			Pyrene	ND	mg/L	5E-05	0.00005	
		AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	0.39	mg/L	0.25	0.02	
		AK103	RRO	1.4	mg/L	0.5	0.5	VJ
		SW6010B	Aluminum	14.7	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.13	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	3.96	mg/L	0.05	0.0003	
			Chromium	0.014	mg/L	0.005	0.0013	
			Cobalt	0.004	mg/L	0.003	0.0006	
			Copper	0.011	mg/L	0.002	0.002	
			Iron	11.2	mg/L	0.02	0.0063	
			Magnesium	3.71	mg/L	0.02	0.0084	
			Manganese	0.105	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	1.64	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	12.6	mg/L	0.05	0.015	
			Vanadium	0.029	mg/L	0.003	0.0017	
			Zinc	0.02	mg/L	0.006	0.0029	
		SW7060A	Arsenic	0.004	mg/L	0.001	0.00054	
		SW7421	Lead	0.006	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	1E-04	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07WP103	Ground Water	SW8082	PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.00283	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.00113	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.00138	
			Acetone	ND	mg/L	0.005	0.00304	
			Acrolein	ND	mg/L	0.05	0.00414	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07WP103	Ground Water	SW8260	Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE07WP202	Ground Water	SW8270 SIM	2-Methylnaphthalene	ND	mg/L	5E-05	0.00005	
			Acenaphthene	ND	mg/L	5E-05	0.00004	
			Acenaphthylene	ND	mg/L	5E-05	0.00005	
			Anthracene	ND	mg/L	5E-05	0.00002	
			Benzo(a)anthracene	ND	mg/L	5E-05	0.00002	
			Benzo(a)pyrene	ND	mg/L	5E-05	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	5E-05	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	5E-05	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	5E-05	0.00002	
			Chrysene	ND	mg/L	5E-05	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	5E-05	0.00005	
			Dibenzofuran	ND	mg/L	5E-05	0.00005	
			Fluoranthene	ND	mg/L	5E-05	0.00005	
			Fluorene	ND	mg/L	5E-05	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	5E-05	0.00004	
			Naphthalene	ND	mg/L	5E-05	0.00005	
			Phenanthrene	ND	mg/L	5E-05	0.00004	
			Pyrene	ND	mg/L	5E-05	0.00005	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	

Summary of Analytical Results Site 7
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE07WP202	Ground Water	SW8260	2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.0028	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.0011	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.0014	
			Acetone	ND	mg/L	0.005	0.003	
			Acrolein	ND	mg/L	0.05	0.0041	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	

Key:
DRO - diesel range organics
MDL - method detection limit
mg/L - milligram per liter
mg/Kg - milligram per kilogram
MRL - method reporting limit
ND - not detected
RRO - residual range organics
SIM - selected ion monitoring
VB - The analyte was detected in the associated blank and the sample indicating possible contamination.
VJ - The analyte was positively identified; the quantitaion is an estimation.
VQQ - The practical quantation limit is approximate due to QC or matrix effects.

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09MW103	Ground water	AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW8270 SIM	2-Methylnaphthalene	ND	mg/L	0.00005	0.00005	
			Acenaphthene	ND	mg/L	0.00005	0.00004	
			Acenaphthylene	ND	mg/L	0.00005	0.00005	
			Anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)pyrene	ND	mg/L	0.00005	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	0.00005	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	0.00005	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	0.00005	0.00002	
			Chrysene	ND	mg/L	0.00005	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	0.00005	0.00005	
			Dibenzofuran	ND	mg/L	0.00005	0.00005	
			Fluoranthene	ND	mg/L	0.00005	0.00005	
			Fluorene	ND	mg/L	0.00005	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.00005	0.00004	
			Naphthalene	ND	mg/L	0.00005	0.00005	
			Phenanthrene	ND	mg/L	0.00005	0.00004	
			Pyrene	ND	mg/L	0.00005	0.00005	
		SW6010B	Aluminum	164	mg/L	0.02	0.012	
			Antimony	0.12	mg/L	0.05	0.014	
			Barium	1.16	mg/L	0.003	0.0004	
			Beryllium	0.014	mg/L	0.001	0.0003	
			Cadmium	0.004	mg/L	0.002	0.00084	
			Calcium	58.6	mg/L	0.05	0.0003	
			Chromium	0.099	mg/L	0.005	0.0013	
			Cobalt	0.037	mg/L	0.003	0.0006	
			Copper	0.068	mg/L	0.002	0.002	
			Iron	322	mg/L	0.02	0.0063	
			Magnesium	38.9	mg/L	0.02	0.0084	
			Manganese	2.24	mg/L	0.001	0.0003	
			Nickel	0.08	mg/L	0.01	0.0034	
			Potassium	16.4	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	46.9	mg/L	0.05	0.015	
			Vanadium	0.149	mg/L	0.003	0.0017	
			Zinc	0.512	mg/L	0.006	0.0029	
		SW7060A	Arsenic	ND	mg/L	0.005	0.0027	
		SW7421	Lead	0.3	mg/L	0.01	0.0086	
		SW7470A	Mercury	0.0004	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.01	0.0042	
		SW7841	Thallium	ND	mg/L	0.005	0.004	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	VQQ
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	VQQ
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	VQQ
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	VQQ
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	VQQ
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	VQQ
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	VQQ
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09MW103	Ground water	SW8260	1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.0028	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.0011	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.0014	
			Acetone	ND	mg/L	0.005	0.003	
			Acrolein	ND	mg/L	0.05	0.0041	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09MW103	Ground water	SW8260	trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE09SD107	Sediment	AK102	DRO	320	mg/Kg	17	3.1	
		AK103	RRO	2100	mg/Kg	35	35	VJ
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.041	0.041	
			Acenaphthene	ND	mg/Kg	0.041	0.028	
			Acenaphthylene	ND	mg/Kg	0.041	0.027	
			Anthracene	ND	mg/Kg	0.041	0.027	
			Benzo(a)anthracene	ND	mg/Kg	0.041	0.023	
			Benzo(a)pyrene	ND	mg/Kg	0.041	0.02	
			Benzo(b)fluoranthene	ND	mg/Kg	0.041	0.027	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.041	0.023	
			Benzo(k)fluoranthene	ND	mg/Kg	0.041	0.021	
			Chrysene	ND	mg/Kg	0.041	0.019	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.041	0.02	
			Dibenzofuran	ND	mg/Kg	0.041	0.041	
			Fluoranthene	ND	mg/Kg	0.041	0.021	
			Fluorene	ND	mg/Kg	0.041	0.031	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.041	0.029	
			Naphthalene	ND	mg/Kg	0.041	0.039	
			Phenanthrene	ND	mg/Kg	0.041	0.027	
			Pyrene	ND	mg/Kg	0.041	0.024	
		E200.8	Arsenic	8	mg/Kg	1	0.2	
		SW6010B	Aluminum	7740	mg/Kg	10	7	
			Antimony	ND	mg/Kg	30	8	
			Barium	72	mg/Kg	2	0.2	
			Beryllium	0.7	mg/Kg	0.6	0.2	
			Cadmium	ND	mg/Kg	1	0.5	
			Calcium	2020	mg/Kg	30	0.2	
			Chromium	5	mg/Kg	3	0.8	
			Cobalt	ND	mg/Kg	2	0.4	
			Copper	6	mg/Kg	1	1	
			Iron	31100	mg/Kg	10	4	
			Lead	ND	mg/Kg	10	4	
			Magnesium	930	mg/Kg	10	5	
			Manganese	50.5	mg/Kg	0.6	0.2	
			Nickel	ND	mg/Kg	6	2	
			Potassium	ND	mg/Kg	290	200	
			Selenium	ND	mg/Kg	30	6	
			Silver	ND	mg/Kg	2	0.4	
			Sodium	180	mg/Kg	30	9	
			Thallium	ND	mg/Kg	30	4	
			Vanadium	21	mg/Kg	2	1	
			Zinc	15	mg/Kg	4	2	
		SW7471A	Mercury	ND	mg/Kg	0.2	0.07	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.23	0.0621	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.47	0.0744	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.23	0.0321	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.23	0.0379	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.23	0.0249	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.23	0.0751	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.23	0.0609	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.22	0.087	
			1,1,1-Trichloroethane	ND	mg/Kg	0.22	0.059	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SD107	Sediment	SW8260	1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.22	0.14	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/Kg	0.22	0.05	
			1,1,2-Trichloroethane	ND	mg/Kg	0.22	0.061	
			1,1-Dichloroethane	ND	mg/Kg	0.22	0.079	
			1,1-Dichloroethene	ND	mg/Kg	0.22	0.068	
			1,1-Dichloropropene	ND	mg/Kg	0.22	0.063	
			1,2,3-Trichlorobenzene	ND	mg/Kg	1.1	0.1	
			1,2,3-Trichloropropane	ND	mg/Kg	0.44	0.13	
			1,2,4-Trichlorobenzene	ND	mg/Kg	1.1	0.096	
			1,2,4-Trimethylbenzene	ND	mg/Kg	0.22	0.083	
			1,2-Dibromo-3-chloropropan	ND	mg/Kg	1.1	0.16	
			1,2-Dibromoethane	ND	mg/Kg	0.22	0.066	
			1,2-Dichlorobenzene	ND	mg/Kg	0.22	0.094	
			1,2-Dichloroethane	ND	mg/Kg	0.22	0.046	
			1,2-Dichloropropane	ND	mg/Kg	0.22	0.05	
			1,3,5-Trimethylbenzene	ND	mg/Kg	0.22	0.09	
			1,3-Dichlorobenzene	ND	mg/Kg	0.22	0.079	
			1,3-Dichloropropane	ND	mg/Kg	0.22	0.087	
			1,4-Dichlorobenzene	ND	mg/Kg	0.22	0.085	
			2,2-Dichloropropane	ND	mg/Kg	0.22	0.076	
			2-Butanone	ND	mg/Kg	1.1	1	
			2-Chloroethyl vinyl ether	ND	mg/Kg	1.1	0.096	
			2-Chlorotoluene	ND	mg/Kg	0.22	0.14	
			2-Hexanone	ND	mg/Kg	1.1	0.86	
			4-Chlorotoluene	ND	mg/Kg	0.22	0.083	
			4-Isopropyltoluene	ND	mg/Kg	0.22	0.085	
			4-Methyl-2-pentanone	ND	mg/Kg	1.1	0.67	
			Acetone	ND	mg/Kg	1.1	1	
			Acrolein	ND	mg/Kg	11	1.4	
			Acrylamide	ND	mg/Kg	1.1	0.16	
			Benzene	ND	mg/Kg	0.22	0.055	
			Bromobenzene	ND	mg/Kg	0.22	0.087	
			Bromochloromethane	ND	mg/Kg	0.22	0.079	
			Bromodichloromethane	ND	mg/Kg	0.22	0.035	
			Bromoethane	ND	mg/Kg	0.44	0.092	
			Bromoform	ND	mg/Kg	0.22	0.068	
			Bromomethane	ND	mg/Kg	0.22	0.14	
			Carbon disulfide	ND	mg/Kg	0.22	0.063	
			Carbon tetrachloride	ND	mg/Kg	0.22	0.05	
			Chlorobenzene	ND	mg/Kg	0.22	0.074	
			Chloroethane	ND	mg/Kg	0.22	0.074	
			Chloroform	ND	mg/Kg	0.22	0.061	
			Chloromethane	ND	mg/Kg	0.22	0.059	
			cis-1,2-Dichloroethene	ND	mg/Kg	0.22	0.061	
			cis-1,3-Dichloropropene	ND	mg/Kg	0.22	0.05	
			Dibromochloromethane	ND	mg/Kg	0.22	0.059	
			Dibromomethane	ND	mg/Kg	0.22	0.059	
			Ethylbenzene	ND	mg/Kg	0.22	0.081	
			Hexachlorobutadiene	ND	mg/Kg	1.1	0.29	
			Isopropylbenzene	ND	mg/Kg	0.22	0.092	
			m,p-Xylene (sum)	ND	mg/Kg	0.22	0.16	
			Methyl iodide	ND	mg/Kg	0.22	0.096	
			Methylene chloride	ND	mg/Kg	0.66	0.49	
			Naphthalene	ND	mg/Kg	1.1	0.16	
			n-Butylbenzene	ND	mg/Kg	0.44	0.094	
			n-Propylbenzene	ND	mg/Kg	0.22	0.083	
			o-Xylene	ND	mg/Kg	0.22	0.07	
			sec-Butylbenzene	ND	mg/Kg	0.22	0.11	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SD107	Sediment	SW8260	Styrene	ND	mg/Kg	0.22	0.061	
			tert-Butylbenzene	ND	mg/Kg	0.22	0.096	
			Tetrachloroethene	ND	mg/Kg	0.22	0.11	
			Toluene	ND	mg/Kg	0.22	0.068	
			trans-1,2-Dichloroethene	ND	mg/Kg	0.22	0.068	
			trans-1,3-Dichloropropene	ND	mg/Kg	0.22	0.048	
			trans-1,4-Dichloro-2-butene	ND	mg/Kg	1.1	0.083	
			Trichloroethene	ND	mg/Kg	0.22	0.081	
			Trichlorofluoromethane	ND	mg/Kg	0.22	0.085	
			Vinyl acetate	ND	mg/Kg	1.1	0.15	
			Vinyl chloride	ND	mg/Kg	0.22	0.076	
01NE09SD108	Sediment	AK102	DRO	84	mg/Kg	9.3	1.7	
		AK103	RRO	520	mg/Kg	19	19	VJ
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.022	0.022	VQQ
			Acenaphthene	ND	mg/Kg	0.022	0.015	VQQ
			Acenaphthylene	ND	mg/Kg	0.022	0.015	VQQ
			Anthracene	ND	mg/Kg	0.022	0.015	VQQ
			Benzo(a)anthracene	ND	mg/Kg	0.022	0.012	VQQ
			Benzo(a)pyrene	ND	mg/Kg	0.022	0.011	VQQ
			Benzo(b)fluoranthene	ND	mg/Kg	0.022	0.014	VQQ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.022	0.012	VQQ
			Benzo(k)fluoranthene	ND	mg/Kg	0.022	0.011	VQQ
			Chrysene	ND	mg/Kg	0.022	0.01	VQQ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.022	0.011	VQQ
			Dibenzofuran	ND	mg/Kg	0.022	0.022	VQQ
			Fluoranthene	ND	mg/Kg	0.022	0.011	VQQ
			Fluorene	ND	mg/Kg	0.022	0.017	VQQ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.022	0.015	VQQ
			Naphthalene	ND	mg/Kg	0.022	0.021	VQQ
			Phenanthrene	ND	mg/Kg	0.022	0.014	VQQ
			Pyrene	ND	mg/Kg	0.022	0.013	VQQ
		E200.8	Arsenic	5.9	mg/Kg	0.6	0.1	
		SW6010B	Aluminum	20000	mg/Kg	9	5	
			Antimony	ND	mg/Kg	20	6	
			Barium	111	mg/Kg	1	0.2	
			Beryllium	2	mg/Kg	0.5	0.1	
			Cadmium	ND	mg/Kg	0.9	0.4	
			Calcium	2090	mg/Kg	20	0.1	
			Chromium	22	mg/Kg	2	0.6	
			Cobalt	4	mg/Kg	1	0.3	
			Copper	15.9	mg/Kg	0.9	0.9	
			Iron	22200	mg/Kg	9	3	
			Lead	27	mg/Kg	9	3	
			Magnesium	2980	mg/Kg	9	4	
			Manganese	125	mg/Kg	0.5	0.1	
			Nickel	10	mg/Kg	5	2	
			Potassium	1060	mg/Kg	230	200	
			Selenium	ND	mg/Kg	20	4	
			Silver	ND	mg/Kg	1	0.3	
			Sodium	270	mg/Kg	20	7	
			Thallium	ND	mg/Kg	20	3	
			Vanadium	44	mg/Kg	1	0.8	
			Zinc	42	mg/Kg	3	1	
		SW7471A	Mercury	ND	mg/Kg	0.2	0.06	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.12	0.0332	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.25	0.0398	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.12	0.0171	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.12	0.0202	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SD108	Sediment	SW8082	PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.12	0.0133	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.12	0.0401	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.12	0.0325	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.18	0.073	
			1,1,1-Trichloroethane	0.2	mg/Kg	0.18	0.049	
			1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.18	0.12	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/Kg	0.18	0.042	
			1,1,2-Trichloroethane	ND	mg/Kg	0.18	0.051	
			1,1-Dichloroethane	ND	mg/Kg	0.18	0.065	
			1,1-Dichloroethene	ND	mg/Kg	0.18	0.056	
			1,1-Dichloropropene	ND	mg/Kg	0.18	0.053	
			1,2,3-Trichlorobenzene	ND	mg/Kg	0.91	0.084	
			1,2,3-Trichloropropane	ND	mg/Kg	0.36	0.11	
			1,2,4-Trichlorobenzene	ND	mg/Kg	0.91	0.08	
			1,2,4-Trimethylbenzene	ND	mg/Kg	0.18	0.069	
			1,2-Dibromo-3-chloropropan	ND	mg/Kg	0.91	0.13	
			1,2-Dibromoethane	ND	mg/Kg	0.18	0.055	
			1,2-Dichlorobenzene	ND	mg/Kg	0.18	0.078	
			1,2-Dichloroethane	ND	mg/Kg	0.18	0.038	
			1,2-Dichloropropane	ND	mg/Kg	0.18	0.042	
			1,3,5-Trimethylbenzene	ND	mg/Kg	0.18	0.075	
			1,3-Dichlorobenzene	ND	mg/Kg	0.18	0.065	
			1,3-Dichloropropane	ND	mg/Kg	0.18	0.073	
			1,4-Dichlorobenzene	ND	mg/Kg	0.18	0.071	
			2,2-Dichloropropane	ND	mg/Kg	0.18	0.064	
			2-Butanone	ND	mg/Kg	0.91	0.84	
			2-Chloroethyl vinyl ether	ND	mg/Kg	0.91	0.08	
			2-Chlorotoluene	ND	mg/Kg	0.18	0.11	
			2-Hexanone	ND	mg/Kg	0.91	0.71	
			4-Chlorotoluene	ND	mg/Kg	0.18	0.069	
			4-Isopropyltoluene	ND	mg/Kg	0.18	0.071	
			4-Methyl-2-pentanone	ND	mg/Kg	0.91	0.56	
			Acetone	1.5	mg/Kg	0.91	0.84	
			Acrolein	ND	mg/Kg	9.1	1.2	
			Acrylamide	ND	mg/Kg	0.91	0.13	
			Benzene	ND	mg/Kg	0.18	0.045	
			Bromobenzene	ND	mg/Kg	0.18	0.073	
			Bromochloromethane	ND	mg/Kg	0.18	0.065	
			Bromodichloromethane	ND	mg/Kg	0.18	0.029	
			Bromoethane	ND	mg/Kg	0.36	0.076	
			Bromoform	ND	mg/Kg	0.18	0.056	
			Bromomethane	0.36	mg/Kg	0.18	0.12	VB
			Carbon disulfide	ND	mg/Kg	0.18	0.053	
			Carbon tetrachloride	ND	mg/Kg	0.18	0.042	
			Chlorobenzene	ND	mg/Kg	0.18	0.062	
			Chloroethane	ND	mg/Kg	0.18	0.062	
			Chloroform	ND	mg/Kg	0.18	0.051	
			Chloromethane	ND	mg/Kg	0.18	0.049	
			cis-1,2-Dichloroethene	ND	mg/Kg	0.18	0.051	
			cis-1,3-Dichloropropene	ND	mg/Kg	0.18	0.042	
			Dibromochloromethane	ND	mg/Kg	0.18	0.049	
			Dibromomethane	ND	mg/Kg	0.18	0.049	
			Ethylbenzene	ND	mg/Kg	0.18	0.067	
			Hexachlorobutadiene	ND	mg/Kg	0.91	0.24	
			Isopropylbenzene	ND	mg/Kg	0.18	0.076	
			m,p-Xylene (sum)	ND	mg/Kg	0.18	0.13	
			Methyl iodide	ND	mg/Kg	0.18	0.08	
			Methylene chloride	ND	mg/Kg	0.55	0.41	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SD108	Sediment	SW8260	Naphthalene	ND	mg/Kg	0.91	0.13	
			n-Butylbenzene	ND	mg/Kg	0.36	0.078	
			n-Propylbenzene	ND	mg/Kg	0.18	0.069	
			o-Xylene	ND	mg/Kg	0.18	0.058	
			sec-Butylbenzene	ND	mg/Kg	0.18	0.089	
			Styrene	ND	mg/Kg	0.18	0.051	
			tert-Butylbenzene	ND	mg/Kg	0.18	0.08	
			Tetrachloroethene	ND	mg/Kg	0.18	0.093	
			Toluene	6	mg/Kg	0.18	0.056	
			trans-1,2-Dichloroethene	ND	mg/Kg	0.18	0.056	
			trans-1,3-Dichloropropene	ND	mg/Kg	0.18	0.04	
			trans-1,4-Dichloro-2-butene	ND	mg/Kg	0.91	0.069	
			Trichloroethene	ND	mg/Kg	0.18	0.067	
			Trichlorofluoromethane	ND	mg/Kg	0.18	0.071	
			Vinyl acetate	ND	mg/Kg	0.91	0.12	
			Vinyl chloride	ND	mg/Kg	0.18	0.064	
01NE09SD109	Sediment	AK102	DRO	510	mg/Kg	34	6.2	
		AK103	RRO	1300	mg/Kg	69	69	VJ
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.016	0.016	
			Acenaphthene	ND	mg/Kg	0.016	0.011	
			Acenaphthylene	ND	mg/Kg	0.016	0.011	
			Anthracene	ND	mg/Kg	0.016	0.011	
			Benzo(a)anthracene	0.021	mg/Kg	0.016	0.009	
			Benzo(a)pyrene	0.086	mg/Kg	0.016	0.0078	
			Benzo(b)fluoranthene	0.039	mg/Kg	0.016	0.011	VP,VJ
			Benzo(g,h,i)perylene	0.088	mg/Kg	0.016	0.009	
			Benzo(k)fluoranthene	0.057	mg/Kg	0.016	0.0081	VP,VJ
			Chrysene	0.064	mg/Kg	0.016	0.0076	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.016	0.0078	
			Dibenzofuran	ND	mg/Kg	0.016	0.016	
			Fluoranthene	0.023	mg/Kg	0.016	0.0083	
			Fluorene	ND	mg/Kg	0.016	0.012	
			Indeno(1,2,3-cd)pyrene	0.018	mg/Kg	0.016	0.011	
			Naphthalene	ND	mg/Kg	0.016	0.015	
			Phenanthrene	0.024	mg/Kg	0.016	0.011	
			Pyrene	0.041	mg/Kg	0.016	0.0093	
		E200.8	Arsenic	25.7	mg/Kg	0.7	0.1	
		SW6010B	Aluminum	4640	mg/Kg	20	10	
			Antimony	250	mg/Kg	60	20	
			Barium	112	mg/Kg	3	0.5	
			Beryllium	ND	mg/Kg	1	0.3	
			Cadmium	7	mg/Kg	2	1	
			Calcium	1910	mg/Kg	60	0.3	
			Chromium	42	mg/Kg	6	1	
			Cobalt	38	mg/Kg	3	0.7	
			Copper	429	mg/Kg	2	2	
			Iron	483000	mg/Kg	20	7	
			Lead	630	mg/Kg	20	7	
			Magnesium	1030	mg/Kg	20	10	
			Manganese	970	mg/Kg	1	0.3	
			Nickel	110	mg/Kg	10	4	
			Potassium	970	mg/Kg	570	400	
			Selenium	ND	mg/Kg	60	10	
			Silver	ND	mg/Kg	3	0.8	
			Sodium	280	mg/Kg	60	20	
			Thallium	ND	mg/Kg	60	7	
			Vanadium	ND	mg/Kg	3	2	
			Zinc	1790	mg/Kg	7	3	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SD109	Sediment	SW7471A	Mercury	0.6	mg/Kg	0.2	0.07	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.092	0.0244	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.18	0.0293	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.092	0.0126	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.0979	0.0149	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.092	0.00979	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.146	0.0296	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.46	0.024	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.081	0.032	
			1,1,1-Trichloroethane	ND	mg/Kg	0.081	0.022	
			1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.081	0.053	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/Kg	0.081	0.019	
			1,1,2-Trichloroethane	ND	mg/Kg	0.081	0.023	
			1,1-Dichloroethane	ND	mg/Kg	0.081	0.029	
			1,1-Dichloroethene	ND	mg/Kg	0.081	0.025	
			1,1-Dichloropropene	ND	mg/Kg	0.081	0.023	
			1,2,3-Trichlorobenzene	ND	mg/Kg	0.4	0.037	
			1,2,3-Trichloropropane	ND	mg/Kg	0.16	0.047	
			1,2,4-Trichlorobenzene	ND	mg/Kg	0.4	0.035	
			1,2,4-Trimethylbenzene	ND	mg/Kg	0.081	0.031	
			1,2-Dibromo-3-chloropropan	ND	mg/Kg	0.4	0.058	
			1,2-Dibromoethane	ND	mg/Kg	0.081	0.024	
			1,2-Dichlorobenzene	ND	mg/Kg	0.081	0.035	
			1,2-Dichloroethane	ND	mg/Kg	0.081	0.017	
			1,2-Dichloropropane	ND	mg/Kg	0.081	0.019	
			1,3,5-Trimethylbenzene	ND	mg/Kg	0.081	0.033	
			1,3-Dichlorobenzene	ND	mg/Kg	0.081	0.029	
			1,3-Dichloropropane	ND	mg/Kg	0.081	0.032	
			1,4-Dichlorobenzene	ND	mg/Kg	0.081	0.031	
			2,2-Dichloropropane	ND	mg/Kg	0.081	0.028	
			2-Butanone	ND	mg/Kg	0.4	0.37	
			2-Chloroethyl vinyl ether	ND	mg/Kg	0.4	0.035	
			2-Chlorotoluene	ND	mg/Kg	0.081	0.05	
			2-Hexanone	ND	mg/Kg	0.4	0.32	
			4-Chlorotoluene	ND	mg/Kg	0.081	0.031	
			4-Isopropyltoluene	ND	mg/Kg	0.081	0.031	
			4-Methyl-2-pentanone	ND	mg/Kg	0.4	0.25	
			Acetone	ND	mg/Kg	0.4	0.37	
			Acrolein	ND	mg/Kg	4	0.51	
			Acrylamide	ND	mg/Kg	0.4	0.059	
			Benzene	ND	mg/Kg	0.081	0.02	
			Bromobenzene	ND	mg/Kg	0.081	0.032	
			Bromochloromethane	ND	mg/Kg	0.081	0.029	
			Bromodichloromethane	ND	mg/Kg	0.081	0.013	
			Bromoethane	ND	mg/Kg	0.16	0.034	
			Bromoform	ND	mg/Kg	0.081	0.025	
			Bromomethane	ND	mg/Kg	0.081	0.052	
			Carbon disulfide	ND	mg/Kg	0.081	0.023	
			Carbon tetrachloride	ND	mg/Kg	0.081	0.019	
			Chlorobenzene	ND	mg/Kg	0.081	0.027	
			Chloroethane	ND	mg/Kg	0.081	0.027	
			Chloroform	ND	mg/Kg	0.081	0.023	
			Chloromethane	ND	mg/Kg	0.081	0.022	
			cis-1,2-Dichloroethene	ND	mg/Kg	0.081	0.023	
			cis-1,3-Dichloropropene	ND	mg/Kg	0.081	0.019	
			Dibromochloromethane	ND	mg/Kg	0.081	0.022	
			Dibromomethane	ND	mg/Kg	0.081	0.022	
			Ethylbenzene	ND	mg/Kg	0.081	0.03	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SD109	Sediment	SW8260	Hexachlorobutadiene	ND	mg/Kg	0.4	0.11	
			Isopropylbenzene	ND	mg/Kg	0.081	0.034	
			m,p-Xylene (sum)	ND	mg/Kg	0.081	0.06	
			Methyl iodide	ND	mg/Kg	0.081	0.035	
			Methylene chloride	ND	mg/Kg	0.24	0.18	
			Naphthalene	ND	mg/Kg	0.4	0.058	
			n-Butylbenzene	ND	mg/Kg	0.16	0.035	
			n-Propylbenzene	ND	mg/Kg	0.081	0.031	
			o-Xylene	ND	mg/Kg	0.081	0.026	
			sec-Butylbenzene	ND	mg/Kg	0.081	0.039	
			Styrene	ND	mg/Kg	0.081	0.023	
			tert-Butylbenzene	ND	mg/Kg	0.081	0.035	
			Tetrachloroethene	ND	mg/Kg	0.081	0.041	
			Toluene	ND	mg/Kg	0.081	0.025	
			trans-1,2-Dichloroethene	ND	mg/Kg	0.081	0.025	
			trans-1,3-Dichloropropene	ND	mg/Kg	0.081	0.018	
			trans-1,4-Dichloro-2-butene	ND	mg/Kg	0.4	0.031	
			Trichloroethene	ND	mg/Kg	0.081	0.03	
			Trichlorofluoromethane	ND	mg/Kg	0.081	0.031	
			Vinyl acetate	ND	mg/Kg	0.4	0.055	
			Vinyl chloride	ND	mg/Kg	0.081	0.028	
01NE09SD113	Sediment	AK101	GRO	ND	mg/Kg	47.7	16.5	
		AK102	DRO	270	mg/Kg	15	2.7	
		AK103	RRO	1400	mg/Kg	30	30	VJ
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.036	0.036	VQQ
			Acenaphthene	ND	mg/Kg	0.036	0.024	VQQ
			Acenaphthylene	ND	mg/Kg	0.036	0.024	VQQ
			Anthracene	ND	mg/Kg	0.036	0.024	VQQ
			Benzo(a)anthracene	ND	mg/Kg	0.036	0.02	VQQ
			Benzo(a)pyrene	ND	mg/Kg	0.036	0.017	VQQ
			Benzo(b)fluoranthene	ND	mg/Kg	0.036	0.023	VQQ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.036	0.02	VQQ
			Benzo(k)fluoranthene	ND	mg/Kg	0.036	0.018	VQQ
			Chrysene	ND	mg/Kg	0.036	0.017	VQQ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.036	0.017	VQQ
			Dibenzofuran	ND	mg/Kg	0.036	0.036	VQQ
			Fluoranthene	ND	mg/Kg	0.036	0.018	VQQ
			Fluorene	ND	mg/Kg	0.036	0.027	VQQ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.036	0.025	VQQ
			Naphthalene	ND	mg/Kg	0.036	0.034	VQQ
			Phenanthrene	ND	mg/Kg	0.036	0.023	VQQ
			Pyrene	ND	mg/Kg	0.036	0.02	VQQ
		DU	Total Organic Carbon (TOC	28	ERCEN	0.046	0.005	
		E160.3	Total Solids	12.7	ERCEN	0.01	0.01	
		E200.8	Arsenic	10	mg/Kg	1	0.2	
		SW6010B	Aluminum	18600	mg/Kg	10	6	
			Antimony	ND	mg/Kg	30	7	
			Barium	105	mg/Kg	2	0.2	
			Beryllium	3.8	mg/Kg	0.5	0.2	
			Cadmium	1	mg/Kg	1	0.4	
			Calcium	3140	mg/Kg	30	0.2	
			Chromium	19	mg/Kg	3	0.7	
			Cobalt	6	mg/Kg	2	0.3	
			Copper	23	mg/Kg	1	1	
			Iron	19600	mg/Kg	10	3	
			Lead	100	mg/Kg	10	3	
			Magnesium	3050	mg/Kg	10	4	
			Manganese	107	mg/Kg	0.5	0.2	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SD113	Sediment	SW6010B	Nickel	13	mg/Kg	5	2	
			Potassium	1000	mg/Kg	260	200	
			Selenium	ND	mg/Kg	30	5	
			Silver	ND	mg/Kg	2	0.4	
			Sodium	210	mg/Kg	30	8	
			Thallium	ND	mg/Kg	30	3	
			Vanadium	35	mg/Kg	2	0.9	
			Zinc	58	mg/Kg	3	1	
		SW7471A	Mercury	ND	mg/Kg	0.2	0.06	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.2	0.0542	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.41	0.065	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.2	0.028	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.2	0.0331	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.2	0.0217	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.2	0.0656	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.2	0.0532	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.27	0.11	
			1,1,1-Trichloroethane	ND	mg/Kg	0.27	0.073	
			1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.27	0.18	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/Kg	0.27	0.062	
			1,1,2-Trichloroethane	ND	mg/Kg	0.27	0.076	
			1,1-Dichloroethane	ND	mg/Kg	0.27	0.098	
			1,1-Dichloroethene	ND	mg/Kg	0.27	0.084	
			1,1-Dichloropropene	ND	mg/Kg	0.27	0.079	
			1,2,3-Trichlorobenzene	ND	mg/Kg	1.4	0.12	
			1,2,3-Trichloropropane	ND	mg/Kg	0.54	0.16	
			1,2,4-Trichlorobenzene	ND	mg/Kg	1.4	0.12	
			1,2,4-Trimethylbenzene	ND	mg/Kg	0.27	0.1	
			1,2-Dibromo-3-chloropropan	ND	mg/Kg	1.4	0.2	
			1,2-Dibromoethane	ND	mg/Kg	0.27	0.082	
			1,2-Dichlorobenzene	ND	mg/Kg	0.27	0.12	
			1,2-Dichloroethane	ND	mg/Kg	0.27	0.057	
			1,2-Dichloropropane	ND	mg/Kg	0.27	0.062	
			1,3,5-Trimethylbenzene	ND	mg/Kg	0.27	0.11	
			1,3-Dichlorobenzene	ND	mg/Kg	0.27	0.098	
			1,3-Dichloropropane	ND	mg/Kg	0.27	0.11	
			1,4-Dichlorobenzene	ND	mg/Kg	0.27	0.11	
			2,2-Dichloropropane	ND	mg/Kg	0.27	0.095	
			2-Butanone	ND	mg/Kg	1.4	1.3	
			2-Chloroethyl vinyl ether	ND	mg/Kg	1.4	0.12	
			2-Chlorotoluene	ND	mg/Kg	0.27	0.17	
			2-Hexanone	ND	mg/Kg	1.4	1.1	
			4-Chlorotoluene	ND	mg/Kg	0.27	0.1	
			4-Isopropyltoluene	ND	mg/Kg	0.27	0.11	
			4-Methyl-2-pentanone	ND	mg/Kg	1.4	0.84	
			Acetone	1.6	mg/Kg	1.4	1.3	
			Acrolein	ND	mg/Kg	14	1.7	
			Acrylamide	ND	mg/Kg	1.4	0.2	
			Benzene	ND	mg/Kg	0.27	0.068	
			Bromobenzene	ND	mg/Kg	0.27	0.11	
			Bromochloromethane	ND	mg/Kg	0.27	0.098	
			Bromodichloromethane	ND	mg/Kg	0.27	0.043	
			Bromoethane	ND	mg/Kg	0.54	0.11	
			Bromoform	ND	mg/Kg	0.27	0.084	
			Bromomethane	ND	mg/Kg	0.27	0.18	
			Carbon disulfide	ND	mg/Kg	0.27	0.079	
			Carbon tetrachloride	ND	mg/Kg	0.27	0.062	
			Chlorobenzene	ND	mg/Kg	0.27	0.092	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SD113	Sediment	SW8260	Chloroethane	ND	mg/Kg	0.27	0.092	
			Chloroform	ND	mg/Kg	0.27	0.076	
			Chloromethane	ND	mg/Kg	0.27	0.073	
			cis-1,2-Dichloroethene	ND	mg/Kg	0.27	0.076	
			cis-1,3-Dichloropropene	ND	mg/Kg	0.27	0.062	
			Dibromochloromethane	ND	mg/Kg	0.27	0.073	
			Dibromomethane	ND	mg/Kg	0.27	0.073	
			Ethylbenzene	ND	mg/Kg	0.27	0.1	
			Hexachlorobutadiene	ND	mg/Kg	1.4	0.36	
			Isopropylbenzene	ND	mg/Kg	0.27	0.11	
			m,p-Xylene (sum)	ND	mg/Kg	0.27	0.2	
			Methyl iodide	ND	mg/Kg	0.27	0.12	
			Methylene chloride	ND	mg/Kg	0.82	0.61	
			Naphthalene	ND	mg/Kg	1.4	0.2	
			n-Butylbenzene	ND	mg/Kg	0.54	0.12	
			n-Propylbenzene	ND	mg/Kg	0.27	0.1	
			o-Xylene	ND	mg/Kg	0.27	0.087	
			sec-Butylbenzene	ND	mg/Kg	0.27	0.13	
			Styrene	ND	mg/Kg	0.27	0.076	
			tert-Butylbenzene	ND	mg/Kg	0.27	0.12	
			Tetrachloroethene	ND	mg/Kg	0.27	0.14	
			Toluene	ND	mg/Kg	0.27	0.084	
			trans-1,2-Dichloroethene	ND	mg/Kg	0.27	0.084	
			trans-1,3-Dichloropropene	ND	mg/Kg	0.27	0.06	
			trans-1,4-Dichloro-2-butene	ND	mg/Kg	1.4	0.1	
			Trichloroethene	ND	mg/Kg	0.27	0.1	
			Trichlorofluoromethane	ND	mg/Kg	0.27	0.11	
			Vinyl acetate	ND	mg/Kg	1.4	0.18	
			Vinyl chloride	ND	mg/Kg	0.27	0.095	
01NE09SD114	Sediment	AK102	DRO	93	mg/Kg	15	2.6	
		AK103	RRO	740	mg/Kg	29	29	VJ
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.035	0.035	
			Acenaphthene	ND	mg/Kg	0.035	0.024	
			Acenaphthylene	ND	mg/Kg	0.035	0.023	
			Anthracene	ND	mg/Kg	0.035	0.023	
			Benzo(a)anthracene	ND	mg/Kg	0.035	0.019	
			Benzo(a)pyrene	ND	mg/Kg	0.035	0.017	
			Benzo(b)fluoranthene	ND	mg/Kg	0.035	0.023	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.035	0.019	
			Benzo(k)fluoranthene	ND	mg/Kg	0.035	0.017	
			Chrysene	ND	mg/Kg	0.035	0.016	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.035	0.017	
			Dibenzofuran	ND	mg/Kg	0.035	0.035	
			Fluoranthene	ND	mg/Kg	0.035	0.018	
			Fluorene	ND	mg/Kg	0.035	0.026	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.035	0.024	
			Naphthalene	ND	mg/Kg	0.035	0.033	
			Phenanthrene	ND	mg/Kg	0.035	0.023	
			Pyrene	ND	mg/Kg	0.035	0.02	
		DU	Total Organic Carbon (TOC	18	ERCEN	0.005	0.005	
		E160.3	Total Solids	9.97	ERCEN	0.01	0.01	
		E200.8	Arsenic	6	mg/Kg	1	0.2	
		SW6010B	Aluminum	15300	mg/Kg	10	7	
			Antimony	ND	mg/Kg	30	9	
			Barium	71	mg/Kg	2	0.2	
			Beryllium	1.6	mg/Kg	0.6	0.2	
			Cadmium	ND	mg/Kg	1	0.5	
			Calcium	4940	mg/Kg	30	0.2	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SD114	Sediment	SW6010B	Chromium	16	mg/Kg	3	0.8	
			Cobalt	5	mg/Kg	2	0.4	
			Copper	16	mg/Kg	1	1	
			Iron	13000	mg/Kg	10	4	
			Lead	40	mg/Kg	10	4	
			Magnesium	2920	mg/Kg	10	5	
			Manganese	247	mg/Kg	0.6	0.2	
			Nickel	10	mg/Kg	6	2	
			Potassium	650	mg/Kg	310	200	
			Selenium	ND	mg/Kg	30	6	
			Silver	ND	mg/Kg	2	0.4	
			Sodium	240	mg/Kg	30	9	
			Thallium	ND	mg/Kg	30	4	
			Vanadium	24	mg/Kg	2	1	
			Zinc	38	mg/Kg	4	2	
		SW7471A	Mercury	ND	mg/Kg	0.3	0.09	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.2	0.0521	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.39	0.0624	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.2	0.0269	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.2	0.0318	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.2	0.0209	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.2	0.063	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.2	0.0511	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.44	0.18	
			1,1,1-Trichloroethane	ND	mg/Kg	0.44	0.12	
			1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.44	0.29	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/Kg	0.44	0.1	
			1,1,2-Trichloroethane	ND	mg/Kg	0.44	0.12	
			1,1-Dichloroethane	ND	mg/Kg	0.44	0.16	
			1,1-Dichloroethene	ND	mg/Kg	0.44	0.14	
			1,1-Dichloropropene	ND	mg/Kg	0.44	0.13	
			1,2,3-Trichlorobenzene	ND	mg/Kg	2.2	0.2	
			1,2,3-Trichloropropane	ND	mg/Kg	0.88	0.26	
			1,2,4-Trichlorobenzene	ND	mg/Kg	2.2	0.19	
			1,2,4-Trimethylbenzene	ND	mg/Kg	0.44	0.17	
			1,2-Dibromo-3-chloropropan	ND	mg/Kg	2.2	0.32	
			1,2-Dibromoethane	ND	mg/Kg	0.44	0.13	
			1,2-Dichlorobenzene	ND	mg/Kg	0.44	0.19	
			1,2-Dichloroethane	ND	mg/Kg	0.44	0.093	
			1,2-Dichloropropane	ND	mg/Kg	0.44	0.1	
			1,3,5-Trimethylbenzene	ND	mg/Kg	0.44	0.18	
			1,3-Dichlorobenzene	ND	mg/Kg	0.44	0.16	
			1,3-Dichloropropane	ND	mg/Kg	0.44	0.18	
			1,4-Dichlorobenzene	ND	mg/Kg	0.44	0.17	
			2,2-Dichloropropane	ND	mg/Kg	0.44	0.15	
			2-Butanone	ND	mg/Kg	2.2	2	
			2-Chloroethyl vinyl ether	ND	mg/Kg	2.2	0.19	
			2-Chlorotoluene	ND	mg/Kg	0.44	0.27	
			2-Hexanone	ND	mg/Kg	2.2	1.7	
			4-Chlorotoluene	ND	mg/Kg	0.44	0.17	
			4-Isopropyltoluene	ND	mg/Kg	0.44	0.17	
			4-Methyl-2-pentanone	ND	mg/Kg	2.2	1.4	
			Acetone	ND	mg/Kg	2.2	2.1	
			Acrolein	ND	mg/Kg	22	2.8	
			Acrylamide	ND	mg/Kg	2.2	0.32	
			Benzene	ND	mg/Kg	0.44	0.11	
			Bromobenzene	ND	mg/Kg	0.44	0.18	
			Bromochloromethane	ND	mg/Kg	0.44	0.16	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SD114	Sediment	SW8260	Bromodichloromethane	ND	mg/Kg	0.44	0.071	
			Bromoethane	ND	mg/Kg	0.88	0.19	
			Bromoform	ND	mg/Kg	0.44	0.14	
			Bromomethane	ND	mg/Kg	0.44	0.29	
			Carbon disulfide	ND	mg/Kg	0.44	0.13	
			Carbon tetrachloride	ND	mg/Kg	0.44	0.1	
			Chlorobenzene	ND	mg/Kg	0.44	0.15	
			Chloroethane	ND	mg/Kg	0.44	0.15	
			Chloroform	ND	mg/Kg	0.44	0.12	
			Chloromethane	ND	mg/Kg	0.44	0.12	
			cis-1,2-Dichloroethene	ND	mg/Kg	0.44	0.12	
			cis-1,3-Dichloropropene	ND	mg/Kg	0.44	0.1	
			Dibromochloromethane	ND	mg/Kg	0.44	0.12	
			Dibromomethane	ND	mg/Kg	0.44	0.12	
			Ethylbenzene	ND	mg/Kg	0.44	0.16	
			Hexachlorobutadiene	ND	mg/Kg	2.2	0.59	
			Isopropylbenzene	ND	mg/Kg	0.44	0.19	
			m,p-Xylene (sum)	ND	mg/Kg	0.44	0.33	
			Methyl iodide	ND	mg/Kg	0.44	0.19	
			Methylene chloride	ND	mg/Kg	1.3	0.99	
			Naphthalene	ND	mg/Kg	2.2	0.32	
			n-Butylbenzene	ND	mg/Kg	0.88	0.19	
			n-Propylbenzene	ND	mg/Kg	0.44	0.17	
			o-Xylene	ND	mg/Kg	0.44	0.14	
			sec-Butylbenzene	ND	mg/Kg	0.44	0.22	
			Styrene	ND	mg/Kg	0.44	0.12	
			tert-Butylbenzene	ND	mg/Kg	0.44	0.19	
			Tetrachloroethene	ND	mg/Kg	0.44	0.23	
			Toluene	ND	mg/Kg	0.44	0.14	
			trans-1,2-Dichloroethene	ND	mg/Kg	0.44	0.14	
			trans-1,3-Dichloropropene	ND	mg/Kg	0.44	0.097	
			trans-1,4-Dichloro-2-butene	ND	mg/Kg	2.2	0.17	
			Trichloroethene	ND	mg/Kg	0.44	0.16	
			Trichlorofluoromethane	ND	mg/Kg	0.44	0.17	
			Vinyl acetate	ND	mg/Kg	2.2	0.3	
			Vinyl chloride	ND	mg/Kg	0.44	0.15	
01NE09SD213	Sediment	AK102	DRO	120	mg/Kg	8.1	1.5	
		AK103	RRO	680	mg/Kg	16	16	VJ
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.019	0.019	
			Acenaphthene	ND	mg/Kg	0.019	0.013	
			Acenaphthylene	ND	mg/Kg	0.019	0.013	
			Anthracene	ND	mg/Kg	0.019	0.013	
			Benzo(a)anthracene	ND	mg/Kg	0.019	0.011	
			Benzo(a)pyrene	ND	mg/Kg	0.019	0.0094	
			Benzo(b)fluoranthene	ND	mg/Kg	0.019	0.013	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.019	0.011	
			Benzo(k)fluoranthene	ND	mg/Kg	0.019	0.0096	
			Chrysene	ND	mg/Kg	0.019	0.0091	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.019	0.0094	
			Dibenzofuran	ND	mg/Kg	0.019	0.019	
			Fluoranthene	ND	mg/Kg	0.019	0.0099	
			Fluorene	ND	mg/Kg	0.019	0.015	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.019	0.013	
			Naphthalene	ND	mg/Kg	0.019	0.018	
			Phenanthrene	ND	mg/Kg	0.019	0.013	
			Pyrene	ND	mg/Kg	0.019	0.011	
		E200.8	Arsenic	7.2	mg/Kg	0.9	0.2	
		SW6010B	Aluminum	17400	mg/Kg	10	7	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SD213	Sediment	SW6010B	Antimony	ND	mg/Kg	30	9	
			Barium	92	mg/Kg	2	0.2	
			Beryllium	3.3	mg/Kg	0.6	0.2	
			Cadmium	ND	mg/Kg	1	0.5	
			Calcium	3540	mg/Kg	30	0.2	
			Chromium	21	mg/Kg	3	0.8	
			Cobalt	6	mg/Kg	2	0.4	
			Copper	25	mg/Kg	1	1	
			Iron	22500	mg/Kg	10	4	
			Lead	340	mg/Kg	10	4	
			Magnesium	3390	mg/Kg	10	5	
			Manganese	132	mg/Kg	0.6	0.2	
			Nickel	10	mg/Kg	6	2	
			Potassium	1120	mg/Kg	310	200	
			Selenium	ND	mg/Kg	30	6	
			Silver	ND	mg/Kg	2	0.4	
			Sodium	290	mg/Kg	30	9	
			Thallium	ND	mg/Kg	30	4	
			Vanadium	41	mg/Kg	2	1	
			Zinc	58	mg/Kg	4	2	
		SW7471A	Mercury	ND	mg/Kg	0.2	0.07	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.0288	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0345	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.0149	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0176	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0115	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0348	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0282	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.098	0.039	
			1,1,1-Trichloroethane	ND	mg/Kg	0.098	0.026	
			1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.098	0.065	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/Kg	0.098	0.023	
			1,1,2-Trichloroethane	ND	mg/Kg	0.098	0.027	
			1,1-Dichloroethane	ND	mg/Kg	0.098	0.035	
			1,1-Dichloroethene	ND	mg/Kg	0.098	0.03	
			1,1-Dichloropropene	ND	mg/Kg	0.098	0.028	
			1,2,3-Trichlorobenzene	ND	mg/Kg	0.49	0.045	
			1,2,3-Trichloropropane	ND	mg/Kg	0.2	0.057	
			1,2,4-Trichlorobenzene	ND	mg/Kg	0.49	0.043	
			1,2,4-Trimethylbenzene	ND	mg/Kg	0.098	0.037	
			1,2-Dibromo-3-chloropropan	ND	mg/Kg	0.49	0.07	
			1,2-Dibromoethane	ND	mg/Kg	0.098	0.029	
			1,2-Dichlorobenzene	ND	mg/Kg	0.098	0.042	
			1,2-Dichloroethane	ND	mg/Kg	0.098	0.021	
			1,2-Dichloropropane	ND	mg/Kg	0.098	0.023	
			1,3,5-Trimethylbenzene	ND	mg/Kg	0.098	0.04	
			1,3-Dichlorobenzene	ND	mg/Kg	0.098	0.035	
			1,3-Dichloropropane	ND	mg/Kg	0.098	0.039	
			1,4-Dichlorobenzene	ND	mg/Kg	0.098	0.038	
			2,2-Dichloropropane	ND	mg/Kg	0.098	0.034	
			2-Butanone	ND	mg/Kg	0.49	0.45	
			2-Chloroethyl vinyl ether	ND	mg/Kg	0.49	0.043	
			2-Chlorotoluene	ND	mg/Kg	0.098	0.061	
			2-Hexanone	ND	mg/Kg	0.49	0.38	
			4-Chlorotoluene	ND	mg/Kg	0.098	0.037	
			4-Isopropyltoluene	ND	mg/Kg	0.098	0.038	
			4-Methyl-2-pentanone	ND	mg/Kg	0.49	0.3	
			Acetone	0.58	mg/Kg	0.49	0.45	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SD213	Sediment	SW8260	Acrolein	ND	mg/Kg	4.9	0.62	
			Acrylamide	ND	mg/Kg	0.49	0.071	
			Benzene	ND	mg/Kg	0.098	0.024	
			Bromobenzene	ND	mg/Kg	0.098	0.039	
			Bromochloromethane	ND	mg/Kg	0.098	0.035	
			Bromodichloromethane	ND	mg/Kg	0.098	0.016	
			Bromoethane	ND	mg/Kg	0.2	0.041	
			Bromoform	ND	mg/Kg	0.098	0.03	
			Bromomethane	ND	mg/Kg	0.098	0.064	
			Carbon disulfide	ND	mg/Kg	0.098	0.028	
			Carbon tetrachloride	ND	mg/Kg	0.098	0.023	
			Chlorobenzene	ND	mg/Kg	0.098	0.033	
			Chloroethane	ND	mg/Kg	0.098	0.033	
			Chloroform	ND	mg/Kg	0.098	0.027	
			Chloromethane	ND	mg/Kg	0.098	0.026	
			cis-1,2-Dichloroethene	ND	mg/Kg	0.098	0.027	
			cis-1,3-Dichloropropene	ND	mg/Kg	0.098	0.023	
			Dibromochloromethane	ND	mg/Kg	0.098	0.026	
			Dibromomethane	ND	mg/Kg	0.098	0.026	
			Ethylbenzene	ND	mg/Kg	0.098	0.036	
			Hexachlorobutadiene	ND	mg/Kg	0.49	0.13	
			Isopropylbenzene	ND	mg/Kg	0.098	0.041	
			m,p-Xylene (sum)	ND	mg/Kg	0.098	0.072	
			Methyl iodide	ND	mg/Kg	0.098	0.043	
			Methylene chloride	ND	mg/Kg	0.29	0.22	
			Naphthalene	ND	mg/Kg	0.49	0.07	
			n-Butylbenzene	ND	mg/Kg	0.2	0.042	
			n-Propylbenzene	ND	mg/Kg	0.098	0.037	
			o-Xylene	ND	mg/Kg	0.098	0.031	
			sec-Butylbenzene	ND	mg/Kg	0.098	0.048	
			Styrene	ND	mg/Kg	0.098	0.027	
			tert-Butylbenzene	ND	mg/Kg	0.098	0.043	
			Tetrachloroethene	ND	mg/Kg	0.098	0.05	
			Toluene	ND	mg/Kg	0.098	0.03	
			trans-1,2-Dichloroethene	ND	mg/Kg	0.098	0.03	
			trans-1,3-Dichloropropene	ND	mg/Kg	0.098	0.022	
			trans-1,4-Dichloro-2-butene	ND	mg/Kg	0.49	0.037	
			Trichloroethene	ND	mg/Kg	0.098	0.036	
			Trichlorofluoromethane	ND	mg/Kg	0.098	0.038	
			Vinyl acetate	ND	mg/Kg	0.49	0.067	
			Vinyl chloride	ND	mg/Kg	0.098	0.034	
01NE09SS171	Surface soil	AK101	GRO	ND	mg/Kg	5	0.865	
		SW8260 SIM	Benzene	ND	mg/Kg	0.0025	0.0025	
			Ethylbenzene	ND	mg/Kg	0.0025	0.0012	
			m,p-Xylene (sum)	ND	mg/Kg	0.005	0.005	
			o-Xylene	ND	mg/Kg	0.0025	0.0021	
			Toluene	0.009	mg/Kg	0.0025	0.0024	
01NE09SW107	Surface Water	AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW8270 SIM	2-Methylnaphthalene	ND	mg/L	0.00005	0.00005	
			Acenaphthene	ND	mg/L	0.00005	0.00004	
			Acenaphthylene	ND	mg/L	0.00005	0.00005	
			Anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)pyrene	ND	mg/L	0.00005	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	0.00005	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	0.00005	0.00004	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SW107	Surface Water	SW8270 SIM	Benzo(k)fluoranthene	ND	mg/L	0.00005	0.00002	
			Chrysene	ND	mg/L	0.00005	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	0.00005	0.00005	
			Dibenzofuran	ND	mg/L	0.00005	0.00005	
			Fluoranthene	ND	mg/L	0.00005	0.00005	
			Fluorene	ND	mg/L	0.00005	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.00005	0.00004	
			Naphthalene	ND	mg/L	0.00005	0.00005	
			Phenanthrene	ND	mg/L	0.00005	0.00004	
			Pyrene	ND	mg/L	0.00005	0.00005	
		SW6010B	Aluminum	0.05	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.005	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	1.74	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	
			Cobalt	ND	mg/L	0.003	0.0006	
			Copper	ND	mg/L	0.002	0.002	
			Iron	0.12	mg/L	0.02	0.0063	
			Magnesium	0.85	mg/L	0.02	0.0084	
			Manganese	0.006	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	ND	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	4	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	ND	mg/L	0.006	0.0029	
		SW7060A	Arsenic	ND	mg/L	0.001	0.00054	
		SW7421	Lead	ND	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropan	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SW107	Surface Water	SW8260	1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.0028	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.0011	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.0014	
			Acetone	ND	mg/L	0.005	0.003	
			Acrolein	ND	mg/L	0.05	0.0041	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE09SW108	Surface Water	AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW8270 SIM	2-Methylnaphthalene	ND	mg/L	0.00005	0.00005	
			Acenaphthene	ND	mg/L	0.00005	0.00004	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SW108	Surface Water	SW8270 SIM	Acenaphthylene	ND	mg/L	0.00005	0.00005	
			Anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)pyrene	ND	mg/L	0.00005	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	0.00005	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	0.00005	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	0.00005	0.00002	
			Chrysene	ND	mg/L	0.00005	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	0.00005	0.00005	
			Dibenzofuran	ND	mg/L	0.00005	0.00005	
			Fluoranthene	ND	mg/L	0.00005	0.00005	
			Fluorene	ND	mg/L	0.00005	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.00005	0.00004	
			Naphthalene	ND	mg/L	0.00005	0.00005	
			Phenanthrene	ND	mg/L	0.00005	0.00004	
			Pyrene	ND	mg/L	0.00005	0.00005	
		SW6010B	Aluminum	0.13	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.005	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	1.65	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	
			Cobalt	ND	mg/L	0.003	0.0006	
			Copper	ND	mg/L	0.002	0.002	
			Iron	0.31	mg/L	0.02	0.0063	
			Magnesium	0.85	mg/L	0.02	0.0084	
			Manganese	0.008	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	ND	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	4.02	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	ND	mg/L	0.006	0.0029	
		SW7060A	Arsenic	ND	mg/L	0.001	0.00054	
		SW7421	Lead	ND	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SW108	Surface Water	SW8260	,2-Dibromo-3-chloropropan	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.0028	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.0011	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.0014	
			Acetone	ND	mg/L	0.005	0.003	
			Acrolein	ND	mg/L	0.05	0.0041	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SW108	Surface Water	SW8260	Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE09SW109	Surface Water	AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW8270 SIM	2-Methylnaphthalene	ND	mg/L	0.00005	0.00005	
			Acenaphthene	ND	mg/L	0.00005	0.00004	
			Acenaphthylene	ND	mg/L	0.00005	0.00005	
			Anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)pyrene	ND	mg/L	0.00005	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	0.00005	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	0.00005	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	0.00005	0.00002	
			Chrysene	ND	mg/L	0.00005	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	0.00005	0.00005	
			Dibenzofuran	ND	mg/L	0.00005	0.00005	
			Fluoranthene	ND	mg/L	0.00005	0.00005	
			Fluorene	ND	mg/L	0.00005	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.00005	0.00004	
			Naphthalene	ND	mg/L	0.00005	0.00005	
			Phenanthrene	ND	mg/L	0.00005	0.00004	
			Pyrene	ND	mg/L	0.00005	0.00005	
		SW6010B	Aluminum	0.1	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.02	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	2.95	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	
			Cobalt	ND	mg/L	0.003	0.0006	
			Copper	0.004	mg/L	0.002	0.002	
			Iron	1.15	mg/L	0.02	0.0063	
			Magnesium	0.82	mg/L	0.02	0.0084	
			Manganese	0.012	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	ND	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	4.04	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	0.06	mg/L	0.006	0.0029	
		SW7060A	Arsenic	ND	mg/L	0.001	0.00054	
		SW7421	Lead	0.006	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SW109	Surface Water	SW8260	1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropan	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.0028	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.0011	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.0014	
			Acetone	ND	mg/L	0.005	0.003	
			Acrolein	ND	mg/L	0.05	0.0041	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SW109	Surface Water	SW8260	trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE09SW110	Surface Water	AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW8270 SIM	2-Methylnaphthalene	ND	mg/L	0.00005	0.00005	
			Acenaphthene	ND	mg/L	0.00005	0.00004	
			Acenaphthylene	ND	mg/L	0.00005	0.00005	
			Anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)pyrene	ND	mg/L	0.00005	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	0.00005	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	0.00005	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	0.00005	0.00002	
			Chrysene	ND	mg/L	0.00005	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	0.00005	0.00005	
			Dibenzofuran	ND	mg/L	0.00005	0.00005	
			Fluoranthene	ND	mg/L	0.00005	0.00005	
			Fluorene	ND	mg/L	0.00005	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.00005	0.00004	
			Naphthalene	ND	mg/L	0.00005	0.00005	
			Phenanthrene	ND	mg/L	0.00005	0.00004	
			Pyrene	ND	mg/L	0.00005	0.00005	
		SW6010B	Aluminum	0.19	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.006	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	1.67	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	
			Cobalt	ND	mg/L	0.003	0.0006	
			Copper	ND	mg/L	0.002	0.002	
			Iron	0.55	mg/L	0.02	0.0063	
			Magnesium	0.84	mg/L	0.02	0.0084	
			Manganese	0.009	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	ND	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	4.21	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	ND	mg/L	0.006	0.0029	
		SW7060A	Arsenic	ND	mg/L	0.001	0.00054	
		SW7421	Lead	ND	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SW110	Surface Water	SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropan	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.0028	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.0011	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.0014	
			Acetone	ND	mg/L	0.005	0.003	
			Acrolein	ND	mg/L	0.05	0.0041	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SW110	Surface Water	SW8260	o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE09SW111	Surface Water	AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW8270 SIM	2-Methylnaphthalene	ND	mg/L	0.00005	0.00005	
			Acenaphthene	ND	mg/L	0.00005	0.00004	
			Acenaphthylene	ND	mg/L	0.00005	0.00005	
			Anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)pyrene	ND	mg/L	0.00005	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	0.00005	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	0.00005	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	0.00005	0.00002	
			Chrysene	ND	mg/L	0.00005	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	0.00005	0.00005	
			Dibenzofuran	ND	mg/L	0.00005	0.00005	
			Fluoranthene	ND	mg/L	0.00005	0.00005	
			Fluorene	ND	mg/L	0.00005	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.00005	0.00004	
			Naphthalene	ND	mg/L	0.00005	0.00005	
			Phenanthrene	ND	mg/L	0.00005	0.00004	
			Pyrene	ND	mg/L	0.00005	0.00005	
		SW6010B	Aluminum	0.23	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.006	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	1.01	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	
			Cobalt	ND	mg/L	0.003	0.0006	
			Copper	ND	mg/L	0.002	0.002	
			Iron	1.54	mg/L	0.02	0.0063	
			Magnesium	0.95	mg/L	0.02	0.0084	
			Manganese	0.029	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	1.02	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	4.37	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	0.011	mg/L	0.006	0.0029	
		SW7060A	Arsenic	ND	mg/L	0.001	0.00054	
		SW7421	Lead	ND	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SW111	Surface Water	SW8082	PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropan	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.0028	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.0011	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.0014	
			Acetone	ND	mg/L	0.005	0.003	
			Acrolein	ND	mg/L	0.05	0.0041	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SW111	Surface Water	SW8260	m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE09SW112	Surface Water	AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW8021	Benzene	ND	mg/L	0.001	0.0002	
		SW8021	Ethylbenzene	ND	mg/L	0.001	0.00019	
		SW8021	m,p-Xylene (sum)	ND	mg/L	0.001	0.00021	
		SW8021	o-Xylene	ND	mg/L	0.001	0.00015	
		SW8021	Toluene	ND	mg/L	0.001	0.0002	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/L	0.00005	0.00005	
			Acenaphthene	ND	mg/L	0.00005	0.00004	
			Acenaphthylene	ND	mg/L	0.00005	0.00005	
			Anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)pyrene	ND	mg/L	0.00005	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	0.00005	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	0.00005	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	0.00005	0.00002	
			Chrysene	ND	mg/L	0.00005	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	0.00005	0.00005	
			Dibenzofuran	ND	mg/L	0.00005	0.00005	
			Fluoranthene	ND	mg/L	0.00005	0.00005	
			Fluorene	ND	mg/L	0.00005	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.00005	0.00004	
			Naphthalene	ND	mg/L	0.00005	0.00005	
			Phenanthrene	ND	mg/L	0.00005	0.00004	
			Pyrene	ND	mg/L	0.00005	0.00005	
		SW6010B	Aluminum	0.04	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.005	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	1.75	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	
			Cobalt	ND	mg/L	0.003	0.0006	
			Copper	ND	mg/L	0.002	0.002	
			Iron	0.2	mg/L	0.02	0.0063	
			Magnesium	0.86	mg/L	0.02	0.0084	
			Manganese	0.012	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SW112	Surface Water	SW6010B	Potassium	0.52	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	4.29	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	ND	mg/L	0.006	0.0029	
		SW7060A	Arsenic	ND	mg/L	0.001	0.00054	
		SW7421	Lead	ND	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropan	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.0028	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.0011	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.0014	
			Acetone	ND	mg/L	0.005	0.003	
			Acrolein	ND	mg/L	0.05	0.0041	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SW112	Surface Water	SW8260	Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE09SW207	Surface Water	AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW8270 SIM	2-Methylnaphthalene	ND	mg/L	0.00005	0.00005	
			Acenaphthene	ND	mg/L	0.00005	0.00004	
			Acenaphthylene	ND	mg/L	0.00005	0.00005	
			Anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)pyrene	ND	mg/L	0.00005	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	0.00005	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	0.00005	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	0.00005	0.00002	
			Chrysene	ND	mg/L	0.00005	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	0.00005	0.00005	
			Dibenzofuran	ND	mg/L	0.00005	0.00005	
			Fluoranthene	ND	mg/L	0.00005	0.00005	
			Fluorene	ND	mg/L	0.00005	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.00005	0.00004	
			Naphthalene	ND	mg/L	0.00005	0.00005	
			Phenanthrene	ND	mg/L	0.00005	0.00004	
			Pyrene	ND	mg/L	0.00005	0.00005	
		SW6010B	Aluminum	0.08	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.005	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	1.78	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SW207	Surface Water	SW6010B	Cobalt	ND	mg/L	0.003	0.0006	
			Copper	ND	mg/L	0.002	0.002	
			Iron	0.15	mg/L	0.02	0.0063	
			Magnesium	0.88	mg/L	0.02	0.0084	
			Manganese	0.006	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	ND	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	4.08	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	ND	mg/L	0.006	0.0029	
		SW7060A	Arsenic	ND	mg/L	0.001	0.00054	
		SW7421	Lead	ND	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropan	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.0028	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.0011	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.0014	
			Acetone	ND	mg/L	0.005	0.003	
			Acrolein	ND	mg/L	0.05	0.0041	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09SW207	Surface Water	SW8260	Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE09WP102	Ground Water	AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	0.93	mg/L	0.25	0.02	
		AK103	RRO	4.2	mg/L	0.5	0.5	VJ
		SW8270 SIM	2-Methylnaphthalene	ND	mg/L	0.00005	0.00005	
			Acenaphthene	ND	mg/L	0.00005	0.00004	
			Acenaphthylene	ND	mg/L	0.00005	0.00005	
			Anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)pyrene	ND	mg/L	0.00005	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	0.00005	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	0.00005	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	0.00005	0.00002	
			Chrysene	ND	mg/L	0.00005	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	0.00005	0.00005	
			Dibenzofuran	ND	mg/L	0.00005	0.00005	
			Fluoranthene	ND	mg/L	0.00005	0.00005	
			Fluorene	ND	mg/L	0.00005	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.00005	0.00004	
			Naphthalene	ND	mg/L	0.00005	0.00005	
			Phenanthrene	ND	mg/L	0.00005	0.00004	
			Pyrene	ND	mg/L	0.00005	0.00005	
		SW6010B	Aluminum	48.9	mg/L	0.02	0.012	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09WP102	Ground Water	SW6010B	Antimony	ND	mg/L	0.05	0.014	
			Barium	0.271	mg/L	0.003	0.0004	
			Beryllium	0.004	mg/L	0.001	0.0003	
			Cadmium	0.002	mg/L	0.002	0.00084	
			Calcium	7.97	mg/L	0.05	0.0003	
			Chromium	0.075	mg/L	0.005	0.0013	
			Cobalt	0.012	mg/L	0.003	0.0006	
			Copper	0.046	mg/L	0.002	0.002	
			Iron	77.3	mg/L	0.02	0.0063	
			Magnesium	8.57	mg/L	0.02	0.0084	
			Manganese	0.326	mg/L	0.001	0.0003	
			Nickel	0.11	mg/L	0.01	0.0034	
			Potassium	2.99	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	9.09	mg/L	0.05	0.015	
			Vanadium	0.097	mg/L	0.003	0.0017	
			Zinc	0.419	mg/L	0.006	0.0029	
		SW7060A	Arsenic	0.012	mg/L	0.001	0.00054	
		SW7421	Lead	0.056	mg/L	0.005	0.0043	
		SW7470A	Mercury	0.0002	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropan	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.0028	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.0011	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.0014	

Summary of Analytical Results Site 9
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE09WP102	Ground Water	SW8260	Acetone	ND	mg/L	0.005	0.003	
			Acrolein	ND	mg/L	0.05	0.0041	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	

Key:
DRO - diesel range organics
MDL - method detection limit
mg/L - milligram per liter
mg/Kg - milligram per kilogram
MRL - method reporting limit
ND - not detected
RRO - residual range organics
SIM - selected ion monitoring
VB - The analyte was detected in the assoicated blank and the sample indicating possible contamination.
VJ - The analyte was positively identified; the quantitaion is an estimation.
VQQ - The practical quantation limit is approximate due to QC or matrix effects.

Summary of Analytical Results Site 14
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Results	Units	MRL	MDL	Qualifier
01NE14SS101	Surface soil	SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.36	0.0971	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.73	0.116	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.36	0.0502	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.36	0.0593	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.36	0.0389	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.36	0.117	
			PCB-1260 (Aroclor 1260)	3.6	mg/Kg	0.36	0.0953	
01NE14SS102	Surface soil	SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.037	0.00978	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.073	0.0117	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.037	0.00505	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.037	0.00597	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.037	0.00392	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.037	0.0118	
			PCB-1260 (Aroclor 1260)	19	mg/Kg	0.73	0.192	
01NE14SS103	Surface soil	SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.037	0.0099	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.074	0.0119	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.037	0.00512	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.037	0.00604	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.037	0.00397	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.037	0.012	
			PCB-1260 (Aroclor 1260)	0.2	mg/Kg	0.037	0.00971	
01NE14SS203	Surface soil	SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.037	0.00993	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.074	0.0119	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.037	0.00513	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.037	0.00607	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.037	0.00398	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.037	0.012	
			PCB-1260 (Aroclor 1260)	0.3	mg/Kg	0.037	0.00975	

Key:
MDL - method detection limit
mg/L - milligram per liter
mg/Kg - milligram per kilogram
MRL - method reporting limit
ND - not detected
PCB - polychlorinated biphenyls

Summary of Analytical Results Site 16
2001 Sampling Event

Sample ID	Matrix	Method	analyte	Result	Units	MRL	MDL	Qualifier
01NE16GW101	Ground Water MW 16-1	SW8270	1,2,4-Trichlorobenzene	ND	mg/L	0.001	0.00016	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00017	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00016	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.00022	
			2,4,5-Trichlorophenol	ND	mg/L	0.005	0.00028	
			2,4,6-Trichlorophenol	ND	mg/L	0.005	0.00025	
			2,4-Dichlorophenol	ND	mg/L	0.003	0.00025	
			2,4-Dimethylphenol	ND	mg/L	0.003	0.00081	
			2,4-Dinitrophenol	ND	mg/L	0.01	0.01	
			2,4-Dinitrotoluene	ND	mg/L	0.005	0.00026	
			2,6-Dinitrotoluene	ND	mg/L	0.005	0.00022	
			2-Chloronaphthalene	ND	mg/L	0.001	0.00019	
			2-Chlorophenol	ND	mg/L	0.001	0.00033	
			2-Methyl-4,6-dinitrophenol	ND	mg/L	0.01	0.00819	
			2-Methylnaphthalene	ND	mg/L	0.001	0.00017	
			2-Methylphenol (o-Cresol)	ND	mg/L	0.001	0.00031	
			2-Nitroaniline	ND	mg/L	0.005	0.00039	
			2-Nitrophenol	ND	mg/L	0.005	0.0002	
			3,3'-Dichlorobenzidine	ND	mg/L	0.005	0.00114	
			3-Nitroaniline	ND	mg/L	0.006	0.00048	
			4-Bromophenyl phenyl ether	ND	mg/L	0.001	0.00022	
			4-Chloro-3-methylphenol	ND	mg/L	0.002	0.00075	
			4-Chloroaniline	ND	mg/L	0.003	0.0008	
			4-Chlorophenyl phenyl ether	ND	mg/L	0.001	0.0002	
			4-Methylphenol (p-Cresol)	ND	mg/L	0.001	0.00034	
			4-Nitroaniline	ND	mg/L	0.005	0.00042	
			4-Nitrophenol	ND	mg/L	0.005	0.00092	
			Acenaphthene	ND	mg/L	0.001	0.00012	
			Acenaphthylene	ND	mg/L	0.001	0.00011	
			Anthracene	ND	mg/L	0.001	0.00024	
			Benzo(a)anthracene	ND	mg/L	0.001	0.00018	
			Benzo(a)pyrene	ND	mg/L	0.001	0.00018	
			Benzo(b)fluoranthene	ND	mg/L	0.001	0.00045	
			Benzo(g,h,i)perylene	ND	mg/L	0.001	0.00025	
			Benzo(k)fluoranthene	ND	mg/L	0.001	0.00033	
			Benzoic acid	ND	mg/L	0.01	0.01	
			Benzyl alcohol	ND	mg/L	0.005	0.0002	
			Benzyl butyl phthalate	ND	mg/L	0.001	0.00026	
			bis-(2-chloroethoxy)methane	ND	mg/L	0.001	0.00018	
			bis-(2-Chloroethyl)ether	ND	mg/L	0.002	0.00023	
			bis(2-Chloroisopropyl)ether	ND	mg/L	0.001	0.00026	
			bis-(2-ethylhexyl)phthalate	0.003	mg/L	0.001	0.00025	VB
			Carbazole	ND	mg/L	0.001	0.0002	
			Chrysene	ND	mg/L	0.001	0.00024	
			Dibenzo(a,h)anthracene	ND	mg/L	0.001	0.00016	
			Dibenzofuran	ND	mg/L	0.001	0.00017	
			Diethyl phthalate	ND	mg/L	0.001	0.00014	
			Dimethyl phthalate	ND	mg/L	0.001	0.00011	
			Di-n-butyl phthalate	ND	mg/L	0.001	0.00019	
			Di-n-octyl phthalate	ND	mg/L	0.001	0.00024	
			Fluoranthene	ND	mg/L	0.001	0.00018	
			Fluorene	ND	mg/L	0.001	0.00015	
			Hexachlorobenzene	ND	mg/L	0.001	0.0002	
			Hexachlorobutadiene	ND	mg/L	0.002	0.00021	
			Hexachlorocyclopentadiene	ND	mg/L	0.005	0.00054	
			Hexachloroethane	ND	mg/L	0.002	0.00015	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.001	0.00028	

Summary of Analytical Results Site 16
2001 Sampling Event

Sample ID	Matrix	Method	analyte	Result	Units	MRL	MDL	Qualifier
01NE16GW101	Ground Water MW 16-1	SW8270	Isophorone	ND	mg/L	0.001	0.00014	
			Naphthalene	ND	mg/L	0.001	0.00013	
			Nitrobenzene	ND	mg/L	0.001	0.00017	
			n-Nitrosodi-n-propylamine	ND	mg/L	0.002	0.00019	
			n-Nitrosodiphenylamine	ND	mg/L	0.001	0.0002	
			Pentachlorophenol	ND	mg/L	0.005	0.00302	
			Phenanthrene	ND	mg/L	0.001	0.00017	
			Phenol	ND	mg/L	0.002	0.00018	
			Pyrene	ND	mg/L	0.001	0.00023	
01NE16GW102	Ground Water MW 16-2	SW8270	1,2,4-Trichlorobenzene	ND	mg/L	0.001	0.00016	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00017	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00016	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.00022	
			2,4,5-Trichlorophenol	ND	mg/L	0.005	0.00028	
			2,4,6-Trichlorophenol	ND	mg/L	0.005	0.00025	
			2,4-Dichlorophenol	ND	mg/L	0.003	0.00025	
			2,4-Dimethylphenol	ND	mg/L	0.003	0.00081	
			2,4-Dinitrophenol	ND	mg/L	0.01	0.01	
			2,4-Dinitrotoluene	ND	mg/L	0.005	0.00026	
			2,6-Dinitrotoluene	ND	mg/L	0.005	0.00022	
			2-Chloronaphthalene	ND	mg/L	0.001	0.00019	
			2-Chlorophenol	ND	mg/L	0.001	0.00033	
			2-Methyl-4,6-dinitrophenol	ND	mg/L	0.01	0.00819	
			2-Methylnaphthalene	ND	mg/L	0.001	0.00017	
			2-Methylphenol (o-Cresol)	ND	mg/L	0.001	0.00031	
			2-Nitroaniline	ND	mg/L	0.005	0.00039	
			2-Nitrophenol	ND	mg/L	0.005	0.0002	
			3,3'-Dichlorobenzidine	ND	mg/L	0.005	0.00114	
			3-Nitroaniline	ND	mg/L	0.006	0.00048	
			4-Bromophenyl phenyl ether	ND	mg/L	0.001	0.00022	
			4-Chloro-3-methylphenol	ND	mg/L	0.002	0.00075	
			4-Chloroaniline	ND	mg/L	0.003	0.0008	
			4-Chlorophenyl phenyl ether	ND	mg/L	0.001	0.0002	
			4-Methylphenol (p-Cresol)	ND	mg/L	0.001	0.00034	
			4-Nitroaniline	ND	mg/L	0.005	0.00042	
			4-Nitrophenol	ND	mg/L	0.005	0.00092	
			Acenaphthene	ND	mg/L	0.001	0.00012	
			Acenaphthylene	ND	mg/L	0.001	0.00011	
			Anthracene	ND	mg/L	0.001	0.00024	
			Benzo(a)anthracene	ND	mg/L	0.001	0.00018	
			Benzo(a)pyrene	ND	mg/L	0.001	0.00018	
			Benzo(b)fluoranthene	ND	mg/L	0.001	0.00045	
			Benzo(g,h,i)perylene	ND	mg/L	0.001	0.00025	
			Benzo(k)fluoranthene	ND	mg/L	0.001	0.00033	
			Benzoic acid	ND	mg/L	0.01	0.01	
			Benzyl alcohol	ND	mg/L	0.005	0.0002	
			Benzyl butyl phthalate	ND	mg/L	0.001	0.00026	
			bis-(2-chloroethoxy)methane	ND	mg/L	0.001	0.00018	
			bis-(2-Chloroethyl)ether	ND	mg/L	0.002	0.00023	
			bis(2-Chloroisopropyl)ether	ND	mg/L	0.001	0.00026	
			bis-(2-ethylhexyl)phthalate	0.001	mg/L	0.001	0.00025	VB
			Carbazole	ND	mg/L	0.001	0.0002	
			Chrysene	ND	mg/L	0.001	0.00024	
			Dibenzo(a,h)anthracene	ND	mg/L	0.001	0.00016	
			Dibenzofuran	ND	mg/L	0.001	0.00017	
			Diethyl phthalate	ND	mg/L	0.001	0.00014	
			Dimethyl phthalate	ND	mg/L	0.001	0.00011	

Summary of Analytical Results Site 16
2001 Sampling Event

Sample ID	Matrix	Method	analyte	Result	Units	MRL	MDL	Qualifier
01NE16GW102	Ground Water	SW8270	Di-n-butyl phthalate	ND	mg/L	0.001	0.00019	
			Di-n-octyl phthalate	ND	mg/L	0.001	0.00024	
			Fluoranthene	ND	mg/L	0.001	0.00018	
			Fluorene	ND	mg/L	0.001	0.00015	
			Hexachlorobenzene	ND	mg/L	0.001	0.0002	
			Hexachlorobutadiene	ND	mg/L	0.002	0.00021	
			Hexachlorocyclopentadiene	ND	mg/L	0.005	0.00054	
			Hexachloroethane	ND	mg/L	0.002	0.00015	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.001	0.00028	
			Isophorone	ND	mg/L	0.001	0.00014	
			Naphthalene	ND	mg/L	0.001	0.00013	
			Nitrobenzene	ND	mg/L	0.001	0.00017	
			n-Nitrosodi-n-propylamine	ND	mg/L	0.002	0.00019	
			n-Nitrosodiphenylamine	ND	mg/L	0.001	0.0002	
			Pentachlorophenol	ND	mg/L	0.005	0.00302	
			Phenanthrene	ND	mg/L	0.001	0.00017	
			Phenol	ND	mg/L	0.002	0.00018	
			Pyrene	ND	mg/L	0.001	0.00023	
01NE16GW103	Ground Water	8270SIM	2-Methylnaphthalene	ND	mg/L	5E-05	0.00005	
			Acenaphthene	5E-05	mg/L	5E-05	0.00004	
			Acenaphthylene	ND	mg/L	5E-05	0.00005	
			Anthracene	ND	mg/L	5E-05	0.00002	
			Benzo(a)anthracene	ND	mg/L	5E-05	0.00002	
			Benzo(a)pyrene	ND	mg/L	5E-05	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	5E-05	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	5E-05	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	5E-05	0.00002	
			Chrysene	ND	mg/L	5E-05	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	5E-05	0.00005	
			Dibenzofuran	ND	mg/L	5E-05	0.00005	
			Fluoranthene	ND	mg/L	5E-05	0.00005	
			Fluorene	8E-05	mg/L	5E-05	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	5E-05	0.00004	
			Naphthalene	0.002	mg/L	5E-05	0.00005	
			Phenanthrene	ND	mg/L	5E-05	0.00004	
			Pyrene	ND	mg/L	5E-05	0.00005	
01NE16GW201	Ground Water FD MW16-1	SW8270	1,2,4-Trichlorobenzene	ND	mg/L	0.001	0.00016	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00017	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00016	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.00022	
			2,4,5-Trichlorophenol	ND	mg/L	0.005	0.00028	
			2,4,6-Trichlorophenol	ND	mg/L	0.005	0.00025	
			2,4-Dichlorophenol	ND	mg/L	0.003	0.00025	
			2,4-Dimethylphenol	ND	mg/L	0.003	0.00081	
			2,4-Dinitrophenol	ND	mg/L	0.01	0.01	
			2,4-Dinitrotoluene	ND	mg/L	0.005	0.00026	
			2,6-Dinitrotoluene	ND	mg/L	0.005	0.00022	
			2-Chloronaphthalene	ND	mg/L	0.001	0.00019	
			2-Chlorophenol	ND	mg/L	0.001	0.00033	
			2-Methyl-4,6-dinitrophenol	ND	mg/L	0.01	0.00819	
			2-Methylnaphthalene	ND	mg/L	0.001	0.00017	
			2-Methylphenol (o-Cresol)	ND	mg/L	0.001	0.00031	
			2-Nitroaniline	ND	mg/L	0.005	0.00039	
			2-Nitrophenol	ND	mg/L	0.005	0.0002	
			3,3'-Dichlorobenzidine	ND	mg/L	0.005	0.00114	
			3-Nitroaniline	ND	mg/L	0.006	0.00048	
			4-Bromophenyl phenyl ether	ND	mg/L	0.001	0.00022	

Summary of Analytical Results Site 16
2001 Sampling Event

Sample ID	Matrix	Method	analyte	Result	Units	MRL	MDL	Qualifier
01NE16GW201	Ground Water FD MW16-1	SW8270	4-Chloro-3-methylphenol	ND	mg/L	0.002	0.00075	
			4-Chloroaniline	ND	mg/L	0.003	0.0008	
			4-Chlorophenyl phenyl ether	ND	mg/L	0.001	0.0002	
			4-Methylphenol (p-Cresol)	ND	mg/L	0.001	0.00034	
			4-Nitroaniline	ND	mg/L	0.005	0.00042	
			4-Nitrophenol	ND	mg/L	0.005	0.00092	
			Acenaphthene	ND	mg/L	0.001	0.00012	
			Acenaphthylene	ND	mg/L	0.001	0.00011	
			Anthracene	ND	mg/L	0.001	0.00024	
			Benzo(a)anthracene	ND	mg/L	0.001	0.00018	
			Benzo(a)pyrene	ND	mg/L	0.001	0.00018	
			Benzo(b)fluoranthene	ND	mg/L	0.001	0.00045	
			Benzo(g,h,i)perylene	ND	mg/L	0.001	0.00025	
			Benzo(k)fluoranthene	ND	mg/L	0.001	0.00033	
			Benzoic acid	ND	mg/L	0.01	0.01	
			Benzyl alcohol	ND	mg/L	0.005	0.0002	
			Benzyl butyl phthalate	ND	mg/L	0.001	0.00026	
			bis-(2-chloroethoxy)methane	ND	mg/L	0.001	0.00018	
			bis-(2-Chloroethyl)ether	ND	mg/L	0.002	0.00023	
			bis(2-Chloroisopropyl)ether	ND	mg/L	0.001	0.00026	
			bis-(2-ethylhexyl)phthalate	0.002	mg/L	0.001	0.00025	VB
			Carbazole	ND	mg/L	0.001	0.0002	
			Chrysene	ND	mg/L	0.001	0.00024	
			Dibenzo(a,h)anthracene	ND	mg/L	0.001	0.00016	
			Dibenzofuran	ND	mg/L	0.001	0.00017	
			Diethyl phthalate	ND	mg/L	0.001	0.00014	
			Dimethyl phthalate	ND	mg/L	0.001	0.00011	
			Di-n-butyl phthalate	ND	mg/L	0.001	0.00019	
			Di-n-octyl phthalate	ND	mg/L	0.001	0.00024	
			Fluoranthene	ND	mg/L	0.001	0.00018	
			Fluorene	ND	mg/L	0.001	0.00015	
			Hexachlorobenzene	ND	mg/L	0.001	0.0002	
			Hexachlorobutadiene	ND	mg/L	0.002	0.00021	
			Hexachlorocyclopentadiene	ND	mg/L	0.005	0.00054	
			Hexachloroethane	ND	mg/L	0.002	0.00015	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.001	0.00028	
			Isophorone	ND	mg/L	0.001	0.00014	
			Naphthalene	ND	mg/L	0.001	0.00013	
			Nitrobenzene	ND	mg/L	0.001	0.00017	
			n-Nitrosodi-n-propylamine	ND	mg/L	0.002	0.00019	
			n-Nitrosodiphenylamine	ND	mg/L	0.001	0.0002	
			Pentachlorophenol	ND	mg/L	0.005	0.00302	
			Phenanthrene	ND	mg/L	0.001	0.00017	
			Phenol	ND	mg/L	0.002	0.00018	
			Pyrene	ND	mg/L	0.001	0.00023	
01NE16SS165	Surface soil	SW6010B	Lead	205	mg/Kg	2	0.7	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.037	0.00999	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.075	0.012	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.037	0.00516	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.037	0.0061	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.037	0.004	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.037	0.0121	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.037	0.0098	
01NE16SS166	Surface soil	SW6010B	Lead	42	mg/Kg	2	0.7	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.041	0.0109	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.082	0.0131	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.041	0.00563	

Summary of Analytical Results Site 16
2001 Sampling Event

Sample ID	Matrix	Method	analyte	Result	Units	MRL	MDL	Qualifier
01NE16SS166	Surface soil	SW8082	PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.041	0.00665	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.041	0.00437	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.041	0.0132	
			PCB-1260 (Aroclor 1260)	0.062	mg/Kg	0.041	0.0107	
01NE16SS167	Surface soil	SW8081	4,4'-DDD	ND	mg/Kg	0.0037	0.00017	
			4,4'-DDE	ND	mg/Kg	0.0037	0.00014	
			4,4'-DDT	0.011	mg/Kg	0.0037	0.00025	
			Aldrin	ND	mg/Kg	0.0018	0.000066	
			alpha-BHC	ND	mg/Kg	0.0018	0.000099	
			alpha-Chlordane	ND	mg/Kg	0.0018	0.000055	
			beta-BHC	ND	mg/Kg	0.0018	0.00011	
			delta-BHC	ND	mg/Kg	0.0018	0.000081	
			Dieldrin	ND	mg/Kg	0.0037	0.00011	
			Endosulfan I	ND	mg/Kg	0.0018	0.000099	
			Endosulfan II	ND	mg/Kg	0.0037	0.00023	
			Endosulfan sulfate	ND	mg/Kg	0.0037	0.00031	
			Endrin	ND	mg/Kg	0.0037	0.00011	
			Endrin aldehyde	ND	mg/Kg	0.0037	0.00021	
			Endrin ketone	ND	mg/Kg	0.0037	0.00038	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0018	0.000077	
			gamma-Chlordane	ND	mg/Kg	0.0018	0.00007	
			Heptachlor	ND	mg/Kg	0.0018	0.000081	
			Heptachlor epoxide	ND	mg/Kg	0.0018	0.000081	
			Methoxychlor	ND	mg/Kg	0.018	0.0011	
			Toxaphene	ND	mg/Kg	0.18	0.0083	
01NE16SS168	Surface soil	SW8081	4,4'-DDD	0.006	mg/Kg	0.0038	0.00017	
			4,4'-DDE	0.005	mg/Kg	0.0038	0.00015	
			4,4'-DDT	0.12	mg/Kg	0.019	0.0013	
			Aldrin	ND	mg/Kg	0.0019	0.000069	
			alpha-BHC	ND	mg/Kg	0.0019	0.0001	
			alpha-Chlordane	ND	mg/Kg	0.0019	0.000057	
			beta-BHC	ND	mg/Kg	0.0019	0.00011	
			delta-BHC	ND	mg/Kg	0.0019	0.000084	
			Dieldrin	ND	mg/Kg	0.0038	0.00011	
			Endosulfan I	0.003	mg/Kg	0.0019	0.0001	
			Endosulfan II	ND	mg/Kg	0.0038	0.00024	
			Endosulfan sulfate	ND	mg/Kg	0.0038	0.00032	
			Endrin	ND	mg/Kg	0.0038	0.00011	
			Endrin aldehyde	ND	mg/Kg	0.0064	0.00022	
			Endrin ketone	ND	mg/Kg	0.0038	0.00039	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0019	0.00008	
			gamma-Chlordane	ND	mg/Kg	0.0019	0.000073	
			Heptachlor	ND	mg/Kg	0.0019	0.000084	
			Heptachlor epoxide	ND	mg/Kg	0.0019	0.000084	
			Methoxychlor	ND	mg/Kg	0.019	0.0011	
			Toxaphene	ND	mg/Kg	0.19	0.0086	
01NE16SS265	Surface soil FDSS165	SW6010B	Lead	240	mg/Kg	2	0.7	

Key:
MDL - method detection limit
mg/L - milligram per liter
mg/Kg - milligram per kilogram
MRL - method reporting limit
ND - not detected
SIM - selected ion monitoring
VB - The analyte was detected in the assoicated blank and the sample indicating possible contamination.

Summary of Analytical Results Site 21
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE21SB169	Surface soil Depth 1.5 to 2 feet bgs	SW8260 SIM	Benzene	ND	mg/L	0.0041	0.0041	
			Ethylbenzene	0.0067	mg/L	0.0041	0.002	
			m,p-Xylene (sum)	0.021	mg/L	0.0082	0.0082	
			o-Xylene	0.0063	mg/L	0.0041	0.0035	
			Toluene	0.024	mg/L	0.0041	0.0039	
		AK101	GRO	ND	mg/Kg	5.42	1.88	
		AK102	DRO	640	mg/Kg	50	6.1	
		AK103	RRO	3700	mg/Kg	100	100	VJ
		E200.8	Arsenic	3	mg/Kg	0.3	0.06	
		SW6010B	Aluminum	18100	mg/Kg	3	2	
			Antimony	ND	mg/Kg	7	2	
			Barium	122	mg/Kg	0.4	0.05	
			Beryllium	0.3	mg/Kg	0.1	0.04	
			Cadmium	ND	mg/Kg	0.3	0.1	
			Calcium	1320	mg/Kg	7	0.04	
			Chromium	27.4	mg/Kg	0.7	0.2	
			Cobalt	3.8	mg/Kg	0.4	0.08	
			Copper	10.6	mg/Kg	0.3	0.3	
			Iron	12700	mg/Kg	3	0.9	
			Lead	12	mg/Kg	3	0.9	
			Magnesium	3380	mg/Kg	3	1	
			Manganese	77.2	mg/Kg	0.1	0.04	
			Nickel	13	mg/Kg	1	0.5	
			Potassium	980	mg/Kg	70	50	
			Selenium	ND	mg/Kg	7	1	
			Silver	ND	mg/Kg	0.4	0.1	
			Sodium	170	mg/Kg	7	2	
			Thallium	ND	mg/Kg	7	0.8	
			Vanadium	40	mg/Kg	0.4	0.2	
			Zinc	29.5	mg/Kg	0.8	0.4	
		SW7471A	Mercury	0.09	mg/Kg	0.07	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.045	0.0121	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.091	0.0145	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.045	0.00626	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.045	0.00739	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.045	0.00485	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.045	0.0146	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.045	0.0119	
01NE21SB170	Surface soil Depth 1.5 to 2 feet bgs	SW8260 SIM	Benzene	ND	mg/L	0.0029	0.0029	
			Ethylbenzene	ND	mg/L	0.0029	0.0014	
			m,p-Xylene (sum)	ND	mg/L	0.0058	0.0058	
			o-Xylene	ND	mg/L	0.0029	0.0025	
			Toluene	0.0072	mg/L	0.0029	0.0028	
		AK101	GRO	ND	mg/Kg	6.43	2.22	
		AK102	DRO	340	mg/Kg	100	13	
		AK103	RRO	2300	mg/Kg	200	200	VJ
		E200.8	Arsenic	4	mg/Kg	0.3	0.06	
		SW6010B	Aluminum	13400	mg/Kg	3	2	
			Antimony	ND	mg/Kg	8	2	
			Barium	97.2	mg/Kg	0.5	0.06	
			Beryllium	0.7	mg/Kg	0.2	0.05	
			Cadmium	ND	mg/Kg	0.3	0.1	
			Calcium	3400	mg/Kg	8	0.05	
			Chromium	20.5	mg/Kg	0.8	0.2	
			Cobalt	5.2	mg/Kg	0.5	0.09	
			Copper	27.2	mg/Kg	0.3	0.3	
			Iron	16700	mg/Kg	3	1	
			Lead	13	mg/Kg	3	1	
			Magnesium	3330	mg/Kg	3	1	
			Manganese	151	mg/Kg	0.2	0.05	
			Nickel	13	mg/Kg	2	0.5	

Summary of Analytical Results Site 21
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE21SB170	Surface soil Depth 1.5 to 2 feet bgs	SW6010B	Potassium	1000	mg/Kg	80	60	
			Selenium	ND	mg/Kg	8	2	
			Silver	ND	mg/Kg	0.5	0.1	
			Sodium	239	mg/Kg	8	2	
			Thallium	ND	mg/Kg	8	0.9	
			Vanadium	34.7	mg/Kg	0.5	0.3	
			Zinc	63.2	mg/Kg	0.9	0.4	
		SW7471A	Mercury	0.07	mg/Kg	0.07	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.049	0.0131	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.098	0.0157	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.049	0.00679	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.049	0.00802	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.049	0.00526	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.049	0.0159	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.049	0.0129	
01NE21SB171	Surface soil Depth 1.5 to 2 feet bgs	SW8260 SIM	Benzene	ND	mg/L	0.01	0.01	
			Ethylbenzene	ND	mg/L	0.01	0.005	
			m,p-Xylene (sum)	0.023	mg/L	0.021	0.021	
			o-Xylene	ND	mg/L	0.01	0.0087	
			Toluene	0.041	mg/L	0.01	0.0098	
		AK101	GRO	ND	mg/Kg	5	1.46	VQQ
		AK102	DRO	ND	mg/Kg	5	0.53	
		AK103	RRO	25	mg/Kg	10	10	VJ
		E200.8	Arsenic	4.3	mg/Kg	0.2	0.05	
		SW6010B	Aluminum	14800	mg/Kg	3	1	
			Antimony	ND	mg/Kg	6	2	
			Barium	122	mg/Kg	0.4	0.05	
			Beryllium	1	mg/Kg	0.1	0.04	
			Cadmium	0.4	mg/Kg	0.3	0.1	
			Calcium	5240	mg/Kg	6	0.04	
			Chromium	41	mg/Kg	0.6	0.2	
			Cobalt	8.3	mg/Kg	0.4	0.08	
			Copper	16.4	mg/Kg	0.3	0.3	
			Iron	23900	mg/Kg	3	0.8	
			Lead	21	mg/Kg	3	0.8	
			Magnesium	8770	mg/Kg	3	1	
			Manganese	452	mg/Kg	0.1	0.04	
			Nickel	26	mg/Kg	1	0.4	
			Potassium	3670	mg/Kg	60	50	
			Selenium	ND	mg/Kg	6	1	
			Silver	ND	mg/Kg	0.4	0.09	
			Sodium	457	mg/Kg	6	2	
			Thallium	ND	mg/Kg	6	0.8	
			Vanadium	51.6	mg/Kg	0.4	0.2	
			Zinc	133	mg/Kg	0.8	0.4	
		SW7471A	Mercury	ND	mg/Kg	0.06	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.039	0.0105	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.079	0.0126	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.039	0.00542	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.039	0.0064	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.039	0.0042	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.039	0.0127	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.039	0.0103	
01NE21SD113	Sediment	SW8260 SIM	Benzene	ND	mg/L	0.015	0.015	
			Ethylbenzene	ND	mg/L	0.015	0.0072	
			m,p-Xylene (sum)	ND	mg/L	0.029	0.029	
			o-Xylene	ND	mg/L	0.015	0.012	
			Toluene	0.055	mg/L	0.015	0.014	
		AK101	GRO	ND	mg/Kg	13.1	4.53	
		AK102	DRO	310	mg/Kg	100	18	
		AK103	RRO	2000	mg/Kg	200	200	VJ

Summary of Analytical Results Site 21
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE21SD113	Sediment	E200.8	Arsenic	12.1	mg/Kg	0.4	0.08	
		SW6010B	Aluminum	24600	mg/Kg	5	3	
			Antimony	ND	mg/Kg	10	3	
			Barium	155	mg/Kg	0.7	0.1	
			Beryllium	1.7	mg/Kg	0.2	0.07	
			Cadmium	0.9	mg/Kg	0.5	0.2	
			Calcium	3920	mg/Kg	10	0.07	
			Chromium	36	mg/Kg	1	0.3	
			Cobalt	11.2	mg/Kg	0.7	0.1	
			Copper	37.4	mg/Kg	0.5	0.5	
			Iron	57400	mg/Kg	5	2	
			Lead	58	mg/Kg	5	2	
			Magnesium	6080	mg/Kg	5	2	
			Manganese	786	mg/Kg	0.2	0.07	
			Nickel	23	mg/Kg	2	0.8	
			Potassium	1950	mg/Kg	120	90	
			Selenium	ND	mg/Kg	10	2	
			Silver	ND	mg/Kg	0.7	0.2	
			Sodium	380	mg/Kg	10	3	
			Thallium	ND	mg/Kg	10	1	
			Vanadium	62.6	mg/Kg	0.7	0.4	
			Zinc	150	mg/Kg	1	0.7	
		SW7471A	Mercury	ND	mg/Kg	0.1	0.04	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.065	0.0174	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.13	0.0208	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.065	0.00898	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.065	0.0106	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.065	0.00696	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.065	0.021	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.065	0.017	
01NE21SD114	Sediment	SW8260 SIM	Benzene	ND	mg/L	0.0042	0.0042	
			Ethylbenzene	ND	mg/L	0.0042	0.002	
			m,p-Xylene (sum)	0.01	mg/L	0.0083	0.0083	
			o-Xylene	ND	mg/L	0.0042	0.0035	
			Toluene	0.019	mg/L	0.0042	0.004	
		AK101	GRO	ND	mg/Kg	30.1	10.4	
		AK102	DRO	310	mg/Kg	63	11	
		AK103	RRO	2000	mg/Kg	130	130	VJ
		E200.8	Arsenic	14.7	mg/Kg	0.5	0.09	
		SW6010B	Aluminum	33100	mg/Kg	7	4	
			Antimony	ND	mg/Kg	20	5	
			Barium	193	mg/Kg	1	0.1	
			Beryllium	1.8	mg/Kg	0.3	0.1	
			Cadmium	1.2	mg/Kg	0.7	0.3	
			Calcium	6910	mg/Kg	20	0.1	
			Chromium	50	mg/Kg	2	0.4	
			Cobalt	14.2	mg/Kg	1	0.2	
			Copper	54.6	mg/Kg	0.7	0.7	
			Iron	51400	mg/Kg	7	2	
			Lead	64	mg/Kg	7	2	
			Magnesium	8250	mg/Kg	7	3	
			Manganese	560	mg/Kg	0.3	0.1	
			Nickel	33	mg/Kg	3	1	
			Potassium	3180	mg/Kg	160	100	
			Selenium	ND	mg/Kg	20	3	
			Silver	ND	mg/Kg	1	0.2	
			Sodium	580	mg/Kg	20	5	
			Thallium	ND	mg/Kg	20	2	
			Vanadium	81.1	mg/Kg	1	0.6	
			Zinc	190	mg/Kg	2	1	
		SW7471A	Mercury	ND	mg/Kg	0.1	0.04	

Summary of Analytical Results Site 21
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE21SD114	Sediment	SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.084	0.0225	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.17	0.027	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.084	0.0116	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.084	0.0138	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.084	0.00903	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.084	0.0273	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.084	0.0221	
01NE21SS169	Surface Soil	SW8260 SIM	Benzene	ND	mg/Kg	0.015	0.015	
			Ethylbenzene	ND	mg/Kg	0.015	0.0072	
			m,p-Xylene (sum)	ND	mg/Kg	0.029	0.029	
			o-Xylene	ND	mg/Kg	0.015	0.012	
			Toluene	0.0394	mg/Kg	0.015	0.014	
		AK101	GRO	ND	mg/Kg	50.6	17.5	
		AK102	DRO	270	mg/Kg	68	12	
		AK103	RRO	2800	mg/Kg	140	140	VJ
		E200.8	Arsenic	7.4	mg/Kg	1	0.2	
		SW6010B	Aluminum	3940	mg/Kg	10	6	
			Antimony	ND	mg/Kg	30	8	
			Barium	59	mg/Kg	2	0.2	
			Beryllium	ND	mg/Kg	0.5	0.2	
			Cadmium	ND	mg/Kg	1	0.5	
			Calcium	4570	mg/Kg	30	0.2	
			Chromium	4	mg/Kg	3	0.7	
			Cobalt	3	mg/Kg	2	0.3	
			Copper	4	mg/Kg	1	1	
			Iron	41200	mg/Kg	10	3	
			Lead	ND	mg/Kg	10	4	
			Magnesium	1320	mg/Kg	10	5	
			Manganese	690	mg/Kg	0.5	0.2	
			Nickel	ND	mg/Kg	5	2	
			Potassium	650	mg/Kg	270	200	
			Selenium	ND	mg/Kg	30	5	
			Silver	ND	mg/Kg	2	0.4	
			Sodium	170	mg/Kg	30	8	
			Thallium	ND	mg/Kg	30	3	
			Vanadium	8	mg/Kg	2	0.9	
			Zinc	302	mg/Kg	3	2	
		SW7471A	Mercury	ND	mg/Kg	0.3	0.08	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.18	0.0485	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.36	0.0582	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.18	0.0251	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.18	0.0296	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.18	0.0195	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.18	0.0587	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.18	0.0476	
01NE21SS170	Surface Soil	SW8260 SIM	Benzene	ND	mg/L	0.0037	0.0037	
			Ethylbenzene	ND	mg/L	0.0037	0.0018	
			m,p-Xylene (sum)	0.0074	mg/L	0.0074	0.0074	
			o-Xylene	ND	mg/L	0.0037	0.0031	
			Toluene	0.011	mg/L	0.0037	0.0035	
		AK101	GRO	ND	mg/Kg	14.8	5.12	
		AK102	DRO	380	mg/Kg	120	21	
		AK103	RRO	2200	mg/Kg	230	230	VJ
		E200.8	Arsenic	5.9	mg/Kg	0.4	0.09	
		SW6010B	Aluminum	14700	mg/Kg	5	3	
			Antimony	ND	mg/Kg	10	3	
			Barium	103	mg/Kg	0.7	0.09	
			Beryllium	0.8	mg/Kg	0.2	0.07	
			Cadmium	0.9	mg/Kg	0.5	0.2	
			Calcium	4190	mg/Kg	10	0.07	
			Chromium	22	mg/Kg	1	0.3	

Summary of Analytical Results Site 21
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE21SS170	Surface Soil	SW6010B	Cobalt	4.5	mg/Kg	0.7	0.1	
			Copper	36.3	mg/Kg	0.5	0.5	
			Iron	19600	mg/Kg	5	1	
			Lead	25	mg/Kg	5	2	
			Magnesium	3380	mg/Kg	5	2	
			Manganese	154	mg/Kg	0.2	0.07	
			Nickel	16	mg/Kg	2	0.8	
			Potassium	910	mg/Kg	120	90	
			Selenium	ND	mg/Kg	10	2	
			Silver	0.9	mg/Kg	0.7	0.2	
			Sodium	260	mg/Kg	10	3	
			Thallium	ND	mg/Kg	10	1	
			Vanadium	38.8	mg/Kg	0.7	0.4	
			Zinc	166	mg/Kg	1	0.7	
		SW7471A	Mercury	0.25	mg/Kg	0.1	0.03	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.077	0.0206	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.15	0.0247	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.077	0.0107	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.077	0.0126	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.077	0.00826	
			PCB-1254 (Aroclor 1254)	0.14	mg/Kg	0.077	0.0249	
			PCB-1260 (Aroclor 1260)	0.15	mg/Kg	0.077	0.0202	
01NE21SS171	Surface Soil	AK102	DRO	94	mg/Kg	25	3.5	
		AK103	RRO	530	mg/Kg	50	50	VJ
		E200.8	Arsenic	6.1	mg/Kg	0.3	0.07	
		SW6010B	Aluminum	17300	mg/Kg	4	2	
			Antimony	ND	mg/Kg	10	3	
			Barium	136	mg/Kg	0.6	0.08	
			Beryllium	1.6	mg/Kg	0.2	0.06	
			Cadmium	1.3	mg/Kg	0.4	0.2	
			Calcium	4600	mg/Kg	10	0.06	
			Chromium	39.8	mg/Kg	1	0.3	
			Cobalt	12.1	mg/Kg	0.6	0.1	
			Copper	23.7	mg/Kg	0.4	0.4	
			Iron	29500	mg/Kg	4	1	
			Lead	23	mg/Kg	4	1	
			Magnesium	6100	mg/Kg	4	2	
			Manganese	765	mg/Kg	0.2	0.06	
			Nickel	27	mg/Kg	2	0.7	
			Potassium	1960	mg/Kg	100	70	
			Selenium	ND	mg/Kg	10	2	
			Silver	ND	mg/Kg	0.6	0.1	
			Sodium	295	mg/Kg	10	3	
			Thallium	ND	mg/Kg	10	1	
			Vanadium	50.1	mg/Kg	0.6	0.3	
			Zinc	256	mg/Kg	1	0.6	
		SW7471A	Mercury	ND	mg/Kg	0.07	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.052	0.014	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.1	0.0168	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.052	0.00723	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.052	0.00853	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.052	0.0056	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.052	0.0169	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.052	0.0137	
01NE21SS172	Surface Soil	SW8260 SIM	Benzene	ND	mg/L	0.034	0.034	
			Ethylbenzene	ND	mg/L	0.034	0.017	
			m,p-Xylene (sum)	0.096	mg/L	0.069	0.069	
			o-Xylene	ND	mg/L	0.034	0.029	
			Toluene	0.14	mg/L	0.034	0.033	
		AK101	GRO	ND	mg/Kg	43.3	15	
		AK102	DRO	140	mg/Kg	10	1.8	

Summary of Analytical Results Site 21
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE21SS172	Surface Soil	AK103	RRO	390	mg/Kg	20	20	VJ
		E200.8	Arsenic	11.5	mg/Kg	0.8	0.2	
		SW6010B	Aluminum	19400	mg/Kg	10	6	
			Antimony	ND	mg/Kg	20	7	
			Barium	96	mg/Kg	1	0.2	
			Beryllium	1.4	mg/Kg	0.5	0.1	
			Cadmium	ND	mg/Kg	1	0.4	
			Calcium	5160	mg/Kg	20	0.1	
			Chromium	25	mg/Kg	2	0.6	
			Cobalt	7	mg/Kg	1	0.3	
			Copper	37.3	mg/Kg	1	1	
			Iron	41200	mg/Kg	10	3	
			Lead	67	mg/Kg	10	3	
			Magnesium	4460	mg/Kg	10	4	
			Manganese	320	mg/Kg	0.5	0.1	
			Nickel	17	mg/Kg	5	2	
			Potassium	1450	mg/Kg	250	200	
			Selenium	ND	mg/Kg	20	5	
			Silver	ND	mg/Kg	1	0.3	
			Sodium	470	mg/Kg	20	7	
			Thallium	ND	mg/Kg	20	3	
			Vanadium	46	mg/Kg	1	0.8	
			Zinc	184	mg/Kg	3	1	
		SW7471A	Mercury	ND	mg/Kg	0.2	0.06	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.13	0.0356	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.27	0.0427	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.13	0.0184	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.13	0.0217	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.13	0.0143	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.13	0.0431	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.13	0.0349	
01NE21SS173	Surface Soil	SW8260 SIM	Benzene	ND	mg/L	0.014	0.014	
			Ethylbenzene	ND	mg/L	0.014	0.0067	
			m,p-Xylene (sum)	0.032	mg/L	0.027	0.027	
			o-Xylene	ND	mg/L	0.014	0.012	
			Toluene	0.073	mg/L	0.014	0.013	
		AK101	GRO	ND	mg/Kg	8.04	2.78	
		AK102	DRO	300	mg/Kg	100	15	
		AK103	RRO	1700	mg/Kg	200	200	VJ
		E200.8	Arsenic	4.5	mg/Kg	0.3	0.06	
		SW6010B	Aluminum	13200	mg/Kg	3	2	
			Antimony	ND	mg/Kg	8	2	
			Barium	115	mg/Kg	0.5	0.06	
			Beryllium	0.7	mg/Kg	0.2	0.05	
			Cadmium	0.8	mg/Kg	0.3	0.1	
			Calcium	3450	mg/Kg	8	0.05	
			Chromium	23.2	mg/Kg	0.8	0.2	
			Cobalt	4.7	mg/Kg	0.5	0.1	
			Copper	28.3	mg/Kg	0.3	0.3	
			Iron	14700	mg/Kg	3	1	
			Lead	17	mg/Kg	3	1	
			Magnesium	3400	mg/Kg	3	1	
			Manganese	163	mg/Kg	0.2	0.05	
			Nickel	13	mg/Kg	2	0.5	
			Potassium	880	mg/Kg	80	60	
			Selenium	ND	mg/Kg	8	2	
			Silver	ND	mg/Kg	0.5	0.1	
			Sodium	239	mg/Kg	8	2	
			Thallium	ND	mg/Kg	8	1	
			Vanadium	34.8	mg/Kg	0.5	0.3	
			Zinc	167	mg/Kg	1	0.5	

Summary of Analytical Results Site 21
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE21SS173	Surface Soil	SW7471A	Mercury	0.16	mg/Kg	0.06	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.057	0.0153	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.11	0.0183	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.057	0.00789	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.057	0.00931	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.057	0.00611	
			PCB-1254 (Aroclor 1254)	0.14	mg/Kg	0.057	0.0185	
			PCB-1260 (Aroclor 1260)	0.18	mg/Kg	0.057	0.015	
01NE21SS269	Surface Soil	SW8260 SIM	Benzene	ND	mg/Kg	0.015	0.015	
			Ethylbenzene	ND	mg/Kg	0.015	0.0074	
			m,p-Xylene (sum)	ND	mg/Kg	0.03	0.03	
			o-Xylene	ND	mg/Kg	0.015	0.013	
			Toluene	ND	mg/Kg	0.015	0.014	
		AK101	GRO	ND	mg/Kg	47.1	16.3	
		AK102	DRO	220	mg/Kg	69	12	
		AK103	RRO	2200	mg/Kg	140	140	VJ
		E200.8	Arsenic	7	mg/Kg	1	0.2	
		SW6010B	Aluminum	4010	mg/Kg	10	6	
			Antimony	ND	mg/Kg	30	7	
			Barium	54	mg/Kg	2	0.2	
			Beryllium	ND	mg/Kg	0.5	0.2	
			Cadmium	ND	mg/Kg	1	0.4	
			Calcium	4310	mg/Kg	30	0.2	
			Chromium	4	mg/Kg	3	0.7	
			Cobalt	2	mg/Kg	2	0.3	
			Copper	4	mg/Kg	1	1	
			Iron	44600	mg/Kg	10	3	
			Lead	ND	mg/Kg	10	3	
			Magnesium	1320	mg/Kg	10	4	
			Manganese	561	mg/Kg	0.5	0.2	
			Nickel	ND	mg/Kg	5	2	
			Potassium	470	mg/Kg	260	200	
			Selenium	ND	mg/Kg	30	5	
			Silver	ND	mg/Kg	2	0.4	
			Sodium	250	mg/Kg	30	8	
			Thallium	ND	mg/Kg	30	3	
			Vanadium	9	mg/Kg	2	0.9	
			Zinc	253	mg/Kg	3	1	
		SW7471A	Mercury	ND	mg/Kg	0.2	0.07	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.18	0.049	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.37	0.0587	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.18	0.0253	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.18	0.0299	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.18	0.0196	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.18	0.0593	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.18	0.0481	
01NE21SW113	Surface Water	AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	0.3	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW6010B	Aluminum	0.11	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.005	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	13.6	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	
			Cobalt	ND	mg/L	0.003	0.0006	
			Copper	ND	mg/L	0.002	0.002	
			Iron	4.17	mg/L	0.02	0.0063	
			Magnesium	2.96	mg/L	0.02	0.0084	
			Manganese	0.687	mg/L	0.001	0.0003	

Summary of Analytical Results Site 21
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE21SW113	Surface Water	SW6010B	Nickel	ND	mg/L	0.01	0.0034	
			Potassium	2.35	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	27	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	ND	mg/L	0.006	0.0029	
		SW7060A	Arsenic	0.002	mg/L	0.001	0.00054	
		SW7421	Lead	ND	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	
01NE21SW114	Surface Water	AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	VQQ
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW6010B	Aluminum	0.71	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.01	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	11.4	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	
			Cobalt	ND	mg/L	0.003	0.0006	
			Copper	ND	mg/L	0.002	0.002	
			Iron	6.34	mg/L	0.02	0.0063	
			Magnesium	2.49	mg/L	0.02	0.0084	
			Manganese	0.494	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	2.65	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	38.1	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	0.009	mg/L	0.006	0.0029	
		SW7060A	Arsenic	0.002	mg/L	0.001	0.00054	
		SW7421	Lead	0.002	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	VQQ
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	VQQ
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	VQQ
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	VQQ
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	VQQ
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	VQQ
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	VQQ
01NE21SW213	Surface Water	AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	0.28	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ

Key:
DRO - diesel range organics
GRO - gasoline range organics
MDL - method detection limit
mg/L - milligram per liter
mg/Kg - milligram per kilogram
MRL - method reporting limit
ND - not detected
PCB - polychlorinated biphenyls
RRO - residual range organics
SIM - selected ion monitoring
VB - The analyte was detected in the assoicated blank and the sample indicating possible contamination.
VJ - The analyte was positively identified; the quantitaion is an estimation.
VQQ - The practical quantation limit is approximate due to QC or matrix effects.

Summary of Analytical Results Site 22
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE35GW101	Ground Water	A2320B	Alkalinity, Total	35	MGCACO3/L	1	1	
		AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		E300	Chloride	14	mg/L	0.5	0.5	
		E300	Sulfate	19.6	mg/L	0.5	0.5	
		E350.1	Nitrogen, Ammonia (as N)	0.12	mg/L	0.01	0.01	
		E351.4	Nitrogen, Kjeldahl, Total	0.5	mg/L	0.2	0.1	
		E353.2	Nitrogen, Nitrate-Nitrite	0.13	mg/L	0.01	0.01	
		E376.2	Sulfide	ND	mg/L	0.05	0.05	
		E410.4	Chemical Oxygen Demand	ND	mg/L	5	5	
		SW6010B	dissolved Iron	ND	mg/L	0.02	0.0063	
			Iron	10.4	mg/L	0.02	0.0063	
			dissolved Manganese	0.089	mg/L	0.001	0.0003	
			Manganese	0.161	mg/L	0.001	0.0003	
		SW8260	Benzene	ND	mg/L	0.001	0.00043	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			o-Xylene	ND	mg/L	0.001	0.00035	
			Toluene	ND	mg/L	0.001	0.00042	
01NE35GW102	Ground Water	A2320B	Alkalinity, Total	6	MGCACO3/L	1	1	
		AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	1.4	mg/L	0.25	0.02	
		AK103	RRO	2.8	mg/L	0.5	0.5	VJ
		E150.1	pH	6.1	PH UNITS	0.05	0.05	
		E300	Chloride	11.2	mg/L	0.4	0.4	
			Sulfate	14.2	mg/L	0.4	0.4	
		E350.1	Nitrogen, Ammonia (as N)	0.13	mg/L	0.01	0.01	
		E351.4	Nitrogen, Kjeldahl, Total	0.5	mg/L	0.2	0.1	
		E353.2	Nitrogen, Nitrate-Nitrite	0.19	mg/L	0.01	0.01	
		E376.2	Sulfide	ND	mg/L	0.05	0.05	
		E410.4	Chemical Oxygen Demand	28	mg/L	5	5	
		SW6010B	dissolved Iron	1.79	mg/L	0.02	0.0063	
			Iron	45.3	mg/L	0.02	0.0063	
			Manganese	0.204	mg/L	0.001	0.0003	
			dissolved Manganese	0.165	mg/L	0.001	0.0003	
		SW8260	Benzene	ND	mg/L	0.001	0.00043	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			o-Xylene	ND	mg/L	0.001	0.00035	
			Toluene	ND	mg/L	0.001	0.00042	
01NE35GW103	Ground Water	A2320B	Alkalinity, Total	22	MGCACO3/L	1	1	
		AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		E300	Chloride	7.5	mg/L	0.2	0.2	
		E300	Sulfate	8.6	mg/L	0.2	0.2	
		E350.1	Nitrogen, Ammonia (as N)	ND	mg/L	0.01	0.01	
		E351.4	Nitrogen, Kjeldahl, Total	0.3	mg/L	0.2	0.1	
		E353.2	Nitrogen, Nitrate-Nitrite	0.24	mg/L	0.01	0.01	
		E376.2	Sulfide	ND	mg/L	0.05	0.05	
		E410.4	Chemical Oxygen Demand	ND	mg/L	5	5	
		SW6010B	dissolved Iron	ND	mg/L	0.02	0.0063	
			Iron	2.78	mg/L	0.02	0.0063	
			Manganese	0.122	mg/L	0.001	0.0003	
			dissolved Manganese	0.092	mg/L	0.001	0.0003	
		SW8260	Benzene	ND	mg/L	0.001	0.00043	
			Ethylbenzene	ND	mg/L	0.001	0.00035	

Summary of Analytical Results Site 22
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE35GW103	Ground Water	SW8260	m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			o-Xylene	ND	mg/L	0.001	0.00035	
			Toluene	ND	mg/L	0.001	0.00042	
01NE35GW104	Ground Water	A2320B	Alkalinity, Total	16	MGCACO3/L	1	1	
		AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		E300	Chloride	7.8	mg/L	0.2	0.2	
			Sulfate	6.2	mg/L	0.2	0.2	
		E350.1	Nitrogen, Ammonia (as N)	0.021	mg/L	0.01	0.01	
		E351.4	Nitrogen, Kjeldahl, Total	0.3	mg/L	0.2	0.1	
		E353.2	Nitrogen, Nitrate-Nitrite	0.07	mg/L	0.01	0.01	
		E376.2	Sulfide	ND	mg/L	0.05	0.05	
		E410.4	Chemical Oxygen Demand	ND	mg/L	5	5	
		SW6010B	dissolved Iron	0.33	mg/L	0.02	0.0063	
			Iron	9.18	mg/L	0.02	0.0063	
			dissolved Manganese	0.105	mg/L	0.001	0.0003	
			Manganese	0.165	mg/L	0.001	0.0003	
		SW8260	Benzene	ND	mg/L	0.001	0.00043	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			o-Xylene	ND	mg/L	0.001	0.00035	
			Toluene	ND	mg/L	0.001	0.00042	
01NE35GW201	Ground Water	AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW8260	Benzene	ND	mg/L	0.001	0.00043	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			o-Xylene	ND	mg/L	0.001	0.00035	
			Toluene	ND	mg/L	0.001	0.00042	

Key:
DRO - diesel range organics
MDL - method detection limit
mg/L - milligram per liter
mg/Kg - milligram per kilogram
MRL - method reporting limit
ND - not detected
RRO - residual range organics
SIM - selected ion monitoring
VB - The analyte was detected in the assoicated blank and the sample indicating possible contamination.
VJ - The analyte was positively identified; the quantitaion is an estimation.
VQQ - The practical quantation limit is approximate due to QC or matrix effects.

Summary of Analytical Results Site 24
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE24SD114	Sediment	8260SIM	Benzene	ND	mg/L	0.003	0.003	
			Ethylbenzene	ND	mg/L	0.003	0.0015	
			m,p-Xylene (sum)	ND	mg/L	0.0061	0.0061	
			o-Xylene	ND	mg/L	0.003	0.0026	
			Toluene	0.0032	mg/L	0.003	0.0029	
		AK101	GRO	ND	mg/Kg	67	23.2	
		AK102	DRO	4600	mg/Kg	180	33	
		AK103	RRO	3100	mg/Kg	370	370	VJ
		E200.8	Arsenic	11	mg/Kg	1	0.3	
		SW6010B	Aluminum	7110	mg/Kg	20	10	
			Antimony	70	mg/Kg	50	10	
			Barium	143	mg/Kg	3	0.4	
			Beryllium	ND	mg/Kg	0.9	0.3	
			Cadmium	ND	mg/Kg	2	0.8	
			Calcium	10200	mg/Kg	50	0.3	
			Chromium	13	mg/Kg	5	1	
			Cobalt	23	mg/Kg	3	0.5	
			Copper	368	mg/Kg	2	2	
			Iron	56400	mg/Kg	20	6	
			Lead	140	mg/Kg	20	6	
			Magnesium	1990	mg/Kg	20	8	
			Manganese	249	mg/Kg	0.9	0.3	
			Nickel	24	mg/Kg	9	3	
			Potassium	960	mg/Kg	460	300	
			Selenium	ND	mg/Kg	50	9	
			Silver	ND	mg/Kg	3	0.6	
			Sodium	670	mg/Kg	50	10	
			Thallium	ND	mg/Kg	50	6	
			Vanadium	30	mg/Kg	3	2	
			Zinc	1480	mg/Kg	5	3	
		SW7471A	Mercury	ND	mg/Kg	0.3	0.1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.25	0.0659	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.49	0.079	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.25	0.0341	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.25	0.0402	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.25	0.0264	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.25	0.0798	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.25	0.0647	
01NE24SD115	Sediment	SW8260 SIM	Benzene	ND	mg/L	0.0072	0.0072	
			Ethylbenzene	0.0088	mg/L	0.0072	0.0035	
			m,p-Xylene (sum)	0.03	mg/L	0.014	0.014	
			o-Xylene	0.0092	mg/L	0.0072	0.0061	
			Toluene	0.038	mg/L	0.0072	0.0068	
		AK101	GRO	ND	mg/Kg	5	1.48	
		AK102	DRO	100	mg/Kg	5	0.59	
		AK103	RRO	230	mg/Kg	10	10	VJ
		E200.8	Arsenic	5.6	mg/Kg	0.2	0.05	
		SW6010B	Aluminum	5570	mg/Kg	3	2	
			Antimony	11	mg/Kg	7	2	
			Barium	30.4	mg/Kg	0.4	0.05	
			Beryllium	0.6	mg/Kg	0.1	0.04	
			Cadmium	0.5	mg/Kg	0.3	0.1	
			Calcium	1670	mg/Kg	7	0.04	
			Chromium	12.3	mg/Kg	0.7	0.2	
			Cobalt	6.9	mg/Kg	0.4	0.08	
			Copper	212	mg/Kg	0.3	0.3	
			Iron	26100	mg/Kg	3	0.8	
			Lead	49	mg/Kg	3	0.9	
			Magnesium	1400	mg/Kg	3	1	
			Manganese	182	mg/Kg	0.1	0.04	
			Nickel	18	mg/Kg	1	0.5	
			Potassium	520	mg/Kg	70	50	
			Selenium	ND	mg/Kg	7	1	

Summary of Analytical Results Site 24
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE24SD115	Sediment	SW6010B	Silver	ND	mg/Kg	0.4	0.09	
			Sodium	131	mg/Kg	7	2	
			Thallium	ND	mg/Kg	7	0.8	
			Vanadium	12.7	mg/Kg	0.4	0.2	
			Zinc	227	mg/Kg	0.8	0.4	
		SW7471A	Mercury	ND	mg/Kg	0.06	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.043	0.0116	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.087	0.0139	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.043	0.00599	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.043	0.00708	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.043	0.00465	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.043	0.014	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.043	0.0114	
01NE24SD214	Sediment	8260SIM	Benzene	ND	mg/L	0.0091	0.0091	
			Ethylbenzene	ND	mg/L	0.0091	0.0045	
			m,p-Xylene (sum)	ND	mg/L	0.018	0.018	
			o-Xylene	ND	mg/L	0.0091	0.0077	
			Toluene	0.017	mg/L	0.0091	0.0087	
		AK101	GRO	ND	mg/Kg	64.1	22.2	
01NE24SW114	Surface Water	AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW8021	Benzene	ND	mg/L	0.001	0.0002	
		SW8021	Ethylbenzene	ND	mg/L	0.001	0.00019	
		SW8021	m,p-Xylene (sum)	ND	mg/L	0.001	0.00021	
		SW8021	o-Xylene	ND	mg/L	0.001	0.00015	
		SW8021	Toluene	ND	mg/L	0.001	0.0002	
		SW6010B	Aluminum	0.03	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.01	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	5.48	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	
			Cobalt	ND	mg/L	0.003	0.0006	
			Copper	0.026	mg/L	0.002	0.002	
			Iron	3.06	mg/L	0.02	0.0063	
			Magnesium	1.34	mg/L	0.02	0.0084	
			Manganese	0.025	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	0.65	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	16.3	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	0.055	mg/L	0.006	0.0029	
		SW7060A	Arsenic	ND	mg/L	0.001	0.00054	
		SW7421	Lead	ND	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	
01NE24SW214	Surface Water	AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW6010B	Aluminum	0.02	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.008	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	

Summary of Analytical Results Site 24
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE24SW214	Surface Water	SW6010B	Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	4.42	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	
			Cobalt	ND	mg/L	0.003	0.0006	
			Copper	0.02	mg/L	0.002	0.002	
			Iron	2.44	mg/L	0.02	0.0063	
			Magnesium	1.06	mg/L	0.02	0.0084	
			Manganese	0.021	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	ND	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	13	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	0.047	mg/L	0.006	0.0029	
		SW7060A	Arsenic	ND	mg/L	0.001	0.00054	
		SW7421	Lead	0.001	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	

Key:
DRO - diesel range organics
GRO - gasoline range organics
MDL - method detection limit
mg/L - milligram per liter
mg/Kg - milligram per kilogram
MRL - method reporting limit
ND - not detected
PCB - polychlorinated biphenyls
RRO - residual range organics
SIM - selected ion monitoring
VJ - The analyte was positively identified; the quantitaion is an estimation.
VQQ - The practical quantation limit is approximate due to QC or matrix effects.

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28FT101 Blackfish	Fish Tissue	E160.1	Total Lipids	0.95	PERCENT	0.05	0.05	
		E200.8	Antimony	0.007	mg/Kg	0.013	0.005	VJ
			Arsenic	0.08	mg/Kg	0.13	0.05	VJ
			Barium	1.07	mg/Kg	0.005	0.005	
			Cadmium	0.008	mg/Kg	0.013	0.005	VJ
			Lead	0.02	mg/Kg	0.005	0.003	
			Nickel	1.11	mg/Kg	0.05	0.01	
			Silver	ND	mg/Kg	0.005	0.005	
			Vanadium	0.106	mg/Kg	0.051	0.005	
			Zinc	51	mg/Kg	0.13	0.02	
		SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	0.64	mg/Kg	0.26	0.05	
		SW7471A	Mercury	0.098	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.16	mg/Kg	0.05	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	0.14	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	0.19	mg/Kg	0.005	0.0024	
			Acenaphthene	0.026	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	0.0037	mg/Kg	0.005	0.0014	VJ
			Fluorene	0.067	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.0005	
			Naphthalene	0.068	mg/Kg	0.005	0.0018	
			Phenanthrene	0.018	mg/Kg	0.005	0.0014	
			Pyrene	0.0023	mg/Kg	0.005	0.0015	VJ
01NE28FT102 Blackfish	Fish Tissue	E160.1	Total Lipids	0.89	PERCENT	0.05	0.05	
		E200.8	Antimony	0.005	mg/Kg	0.011	0.005	VJ
			Arsenic	0.06	mg/Kg	0.11	0.05	VJ
			Barium	1.1	mg/Kg	0.005	0.005	
			Cadmium	0.008	mg/Kg	0.011	0.005	VJ
			Lead	0.011	mg/Kg	0.005	0.002	
			Nickel	0.63	mg/Kg	0.05	0.01	
			Silver	ND	mg/Kg	0.005	0.005	
			Vanadium	0.099	mg/Kg	0.045	0.005	
			Zinc	44	mg/Kg	0.11	0.02	
		SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	0.7	mg/Kg	0.23	0.05	
		SW7471A	Mercury	0.082	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.13	mg/Kg	0.05	0.01	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	0.1	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	0.0053	mg/Kg	0.005	0.0024	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28FT102 Blackfish	Fish Tissue	SW8270 SIM	Acenaphthene	0.0063	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	0.0043	mg/Kg	0.005	0.0014	VJ
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	0.036	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.0005	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	0.009	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
01NE28FT103 Blackfish	Fish Tissue	E160.1	Total Lipids	1.05	PERCENT	0.05	0.05	
		E200.8	Antimony	0.005	mg/Kg	0.012	0.005	VJ
			Arsenic	0.07	mg/Kg	0.12	0.05	VJ
			Barium	1.04	mg/Kg	0.005	0.005	
			Cadmium	0.008	mg/Kg	0.012	0.005	VJ
			Lead	0.028	mg/Kg	0.005	0.002	
			Nickel	0.93	mg/Kg	0.05	0.01	
			Silver	ND	mg/Kg	0.005	0.005	
			Vanadium	0.102	mg/Kg	0.047	0.005	
			Zinc	43.3	mg/Kg	0.12	0.02	
		SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	1.19	mg/Kg	0.23	0.05	
		SW7471A	Mercury	0.076	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.14	mg/Kg	0.05	0.01	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	0.06	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	0.089	mg/Kg	0.005	0.0024	
			Acenaphthene	0.014	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	0.0015	mg/Kg	0.005	0.0014	VJ
			Fluorene	0.042	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.0005	
			Naphthalene	0.025	mg/Kg	0.005	0.0018	
			Phenanthrene	0.0062	mg/Kg	0.005	0.0014	
			Pyrene	0.0018	mg/Kg	0.005	0.0015	VJ
01NE28PT1101	Plant Tissue	SW6010B	Chromium	0.12	mg/Kg	0.05	0.04	
		SW6020	Arsenic	0.18	mg/Kg	0.05	0.02	
			Barium	5.03	mg/Kg	0.002	0.002	
			Cadmium	0.005	mg/Kg	0.005	0.002	
			Copper	0.775	mg/Kg	0.019	0.003	
			Lead	0.133	mg/Kg	0.002	0.001	
			Nickel	0.147	mg/Kg	0.019	0.003	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28PT1101	Plant Tissue	SW6020	Silver	ND	mg/Kg	0.002	0.002	
			Vanadium	0.22	mg/Kg	0.019	0.002	
			Zinc	3.51	mg/Kg	0.05	0.01	
		SW7471A	Mercury	0.009	mg/Kg	0.002	0.001	
		SW7741	Selenium	0.02	mg/Kg	0.02	0.01	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.08	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	0.038	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.01	0.0048	
			Acenaphthene	0.006	mg/Kg	0.01	0.0024	VJ
			Anthracene	ND	mg/Kg	0.01	0.003	
			Benzo(a)anthracene	ND	mg/Kg	0.01	0.0024	
			Benzo(a)pyrene	ND	mg/Kg	0.01	0.004	
			Benzo(b)fluoranthene	ND	mg/Kg	0.01	0.0024	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.01	0.0028	
			Benzo(k)fluoranthene	ND	mg/Kg	0.01	0.0036	
			Chrysene	0.0059	mg/Kg	0.01	0.0036	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.01	0.0032	
			Fluoranthene	0.028	mg/Kg	0.01	0.0028	
			Fluorene	0.0088	mg/Kg	0.01	0.0022	VJ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.01	0.0011	
			Naphthalene	0.0043	mg/Kg	0.01	0.0036	VJ
			Phenanthrene	0.056	mg/Kg	0.01	0.0028	
			Pyrene	0.017	mg/Kg	0.01	0.003	
01NE28PT1102	Plant Tissue	SW6010B	Chromium	1.5	mg/Kg	0.18	0.14	
		SW6020	Arsenic	0.77	mg/Kg	0.18	0.07	
			Barium	29.8	mg/Kg	0.007	0.007	
			Cadmium	0.063	mg/Kg	0.018	0.007	
			Copper	6.54	mg/Kg	0.072	0.011	
			Lead	1.3	mg/Kg	0.007	0.004	
			Nickel	1.11	mg/Kg	0.072	0.011	
			Silver	0.009	mg/Kg	0.007	0.007	
			Vanadium	1.48	mg/Kg	0.072	0.007	
			Zinc	30.6	mg/Kg	0.18	0.03	
		SW7471A	Mercury	0.061	mg/Kg	0.009	0.005	
		SW7741	Selenium	0.12	mg/Kg	0.07	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.035	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	0.021	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	0.01	mg/Kg	0.005	0.0024	
			Acenaphthene	0.011	mg/Kg	0.005	0.0012	
			Anthracene	0.0077	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	0.011	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	0.0089	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	0.017	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	0.0049	mg/Kg	0.005	0.0014	VJ
			Benzo(k)fluoranthene	0.014	mg/Kg	0.005	0.0018	
			Chrysene	0.039	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	0.0017	mg/Kg	0.005	0.0016	VJ
			Fluoranthene	0.19	mg/Kg	0.005	0.0014	
			Fluorene	0.015	mg/Kg	0.005	0.0011	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28PT1102	Plant Tissue	SW8270 SIM	Indeno(1,2,3-cd)pyrene	0.006	mg/Kg	0.005	0.0005	
			Naphthalene	0.011	mg/Kg	0.005	0.0018	
			Phenanthrene	0.25	mg/Kg	0.005	0.0014	
			Pyrene	0.12	mg/Kg	0.005	0.0015	
01NE28PT2101	Plant Tissue	SW6010B	Chromium	0.43	mg/Kg	0.1	0.08	
		SW6020	Arsenic	0.23	mg/Kg	0.1	0.04	
			Barium	11.5	mg/Kg	0.004	0.004	
			Cadmium	0.085	mg/Kg	0.01	0.004	
			Copper	1.69	mg/Kg	0.041	0.006	
			Lead	0.794	mg/Kg	0.004	0.002	
			Nickel	0.368	mg/Kg	0.041	0.006	
			Silver	ND	mg/Kg	0.004	0.004	
			Vanadium	0.362	mg/Kg	0.041	0.004	
			Zinc	67.5	mg/Kg	0.51	0.08	
		SW7471A	Mercury	0.03	mg/Kg	0.005	0.002	
		SW7741	Selenium	ND	mg/Kg	0.04	0.01	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.014	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	0.019	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	0.0054	mg/Kg	0.005	0.0024	
			Acenaphthene	0.0064	mg/Kg	0.005	0.0012	
			Anthracene	0.0029	mg/Kg	0.005	0.0015	VJ
			Benzo(a)anthracene	0.0028	mg/Kg	0.005	0.0012	VJ
			Benzo(a)pyrene	0.0022	mg/Kg	0.005	0.002	VJ
			Benzo(b)fluoranthene	0.0094	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	0.0018	mg/Kg	0.005	0.0014	VJ
			Benzo(k)fluoranthene	0.008	mg/Kg	0.005	0.0018	
			Chrysene	0.02	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	0.086	mg/Kg	0.005	0.0014	
			Fluorene	0.0093	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	0.0033	mg/Kg	0.005	0.0005	VJ
			Naphthalene	0.0061	mg/Kg	0.005	0.0018	
			Phenanthrene	0.087	mg/Kg	0.005	0.0014	
			Pyrene	0.05	mg/Kg	0.005	0.0015	
01NE28PT2102	Plant Tissue	SW6010B	Chromium	0.3	mg/Kg	0.21	0.16	
		SW6020	Arsenic	ND	mg/Kg	0.21	0.08	
			Barium	15.4	mg/Kg	0.008	0.008	
			Cadmium	0.103	mg/Kg	0.021	0.008	
			Copper	1.92	mg/Kg	0.083	0.013	
			Lead	0.16	mg/Kg	0.008	0.004	
			Nickel	0.34	mg/Kg	0.083	0.013	
			Silver	ND	mg/Kg	0.008	0.008	
			Vanadium	0.034	mg/Kg	0.083	0.008	VJ
			Zinc	76.1	mg/Kg	0.21	0.03	
		SW7471A	Mercury	0.005	mg/Kg	0.009	0.005	VJ
		SW7741	Selenium	ND	mg/Kg	0.08	0.03	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.0073	0.0026	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.015	0.0026	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.0073	0.0026	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.0073	0.0026	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.0073	0.0026	
			PCB-1254 (Aroclor 1254)	0.0061	mg/Kg	0.0073	0.0026	VJ
			PCB-1260 (Aroclor 1260)	0.0054	mg/Kg	0.0073	0.0026	
		SW8270 SIM	2-Methylnaphthalene	0.0051	mg/Kg	0.011	0.0049	VLB

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28PT2102	Plant Tissue	SW8270 SIM	Acenaphthene	0.0038	mg/Kg	0.011	0.0025	VLB
			Anthracene	0.0052	mg/Kg	0.011	0.0031	VLB
			Benzo(a)anthracene	0.0045	mg/Kg	0.011	0.0025	VLB
			Benzo(a)pyrene	ND	mg/Kg	0.011	0.0041	VQQ
			Benzo(b)fluoranthene	0.0037	mg/Kg	0.011	0.0025	VLB
			Benzo(g,h,i)perylene	ND	mg/Kg	0.011	0.0029	VQQ
			Benzo(k)fluoranthene	ND	mg/Kg	0.011	0.0037	VQQ
			Chrysene	0.005	mg/Kg	0.011	0.0037	VLB
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.011	0.0033	VQQ
			Fluoranthene	0.033	mg/Kg	0.011	0.0029	VLB
			Fluorene	0.0063	mg/Kg	0.011	0.0023	VLB
			Indeno(1,2,3-cd)pyrene	0.0027	mg/Kg	0.011	0.0011	VLB
			Naphthalene	0.0051	mg/Kg	0.011	0.0037	VLB
			Phenanthrene	0.046	mg/Kg	0.011	0.0029	VLB
			Pyrene	0.019	mg/Kg	0.011	0.0031	VLB
01NE28PT3101	Plant Tissue	SW6010B	Chromium	0.52	mg/Kg	0.39	0.32	
		SW6020	Arsenic	ND	mg/Kg	0.41	0.17	
			Barium	3.65	mg/Kg	0.017	0.017	
			Cadmium	0.039	mg/Kg	0.041	0.017	VJ
			Copper	1.33	mg/Kg	0.165	0.025	
			Lead	1.31	mg/Kg	0.017	0.008	
			Nickel	0.26	mg/Kg	0.165	0.025	
			Silver	ND	mg/Kg	0.016	0.016	
			Vanadium	0.201	mg/Kg	0.165	0.017	
			Zinc	15.8	mg/Kg	0.41	0.07	
		SW7471A	Mercury	0.12	mg/Kg	0.018	0.009	
		SW7741	Selenium	0.07	mg/Kg	0.17	0.05	VJ
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.013	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	0.021	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	0.0046	mg/Kg	0.005	0.0024	VLB
			Acenaphthene	0.0017	mg/Kg	0.005	0.0012	VLB
			Anthracene	0.0019	mg/Kg	0.005	0.0015	VLB
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	VQQ
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	VQQ
			Benzo(b)fluoranthene	0.003	mg/Kg	0.005	0.0012	VLB
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	VQQ
			Benzo(k)fluoranthene	0.0031	mg/Kg	0.005	0.0018	VLB
			Chrysene	0.0074	mg/Kg	0.005	0.0018	VLB
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	VQQ
			Fluoranthene	0.049	mg/Kg	0.005	0.0014	VLB
			Fluorene	0.005	mg/Kg	0.005	0.0011	VLB
			Indeno(1,2,3-cd)pyrene	0.0013	mg/Kg	0.005	0.0005	VLB
			Naphthalene	0.0044	mg/Kg	0.005	0.0018	VLB
			Phenanthrene	0.062	mg/Kg	0.005	0.0014	VLB
			Pyrene	0.026	mg/Kg	0.005	0.0015	VLB
01NE28PT3102	Plant Tissue	SW6010B	Chromium	0.88	mg/Kg	0.46	0.36	
		SW6020	Arsenic	ND	mg/Kg	0.43	0.17	
			Barium	2.44	mg/Kg	0.017	0.017	
			Cadmium	0.064	mg/Kg	0.043	0.017	
			Copper	1.46	mg/Kg	0.172	0.026	
			Lead	0.955	mg/Kg	0.017	0.009	
			Nickel	0.244	mg/Kg	0.172	0.026	
			Silver	ND	mg/Kg	0.018	0.018	
			Vanadium	0.107	mg/Kg	0.172	0.017	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28PT3102	Plant Tissue	SW6020	Zinc	21.5	mg/Kg	0.43	0.07	
		SW7471A	Mercury	0.099	mg/Kg	0.029	0.015	
		SW7741	Selenium	0.27	mg/Kg	0.17	0.05	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.029	0.014	
			Acenaphthene	ND	mg/Kg	0.029	0.007	
			Anthracene	ND	mg/Kg	0.029	0.0087	
			Benzo(a)anthracene	ND	mg/Kg	0.029	0.007	
			Benzo(a)pyrene	ND	mg/Kg	0.029	0.012	
			Benzo(b)fluoranthene	ND	mg/Kg	0.029	0.007	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.029	0.0081	
			Benzo(k)fluoranthene	ND	mg/Kg	0.029	0.011	
			Chrysene	ND	mg/Kg	0.029	0.011	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.029	0.0093	
			Fluoranthene	0.056	mg/Kg	0.029	0.0081	
			Fluorene	0.011	mg/Kg	0.029	0.0064	VJ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.029	0.0031	
			Naphthalene	ND	mg/Kg	0.029	0.011	
			Phenanthrene	0.091	mg/Kg	0.029	0.0081	
			Pyrene	0.029	mg/Kg	0.029	0.0087	
01NE28PT3103	Plant Tissue	SW6010B	Chromium	0.78	mg/Kg	0.11	0.08	
		SW6020	Arsenic	0.06	mg/Kg	0.11	0.04	
			Barium	10.1	mg/Kg	0.004	0.004	
			Cadmium	0.045	mg/Kg	0.011	0.004	
			Copper	1.33	mg/Kg	0.043	0.006	
			Lead	0.358	mg/Kg	0.004	0.002	
			Nickel	0.249	mg/Kg	0.043	0.006	
			Silver	ND	mg/Kg	0.004	0.004	
			Vanadium	0.133	mg/Kg	0.043	0.004	
			Zinc	12.7	mg/Kg	0.11	0.02	
		SW7471A	Mercury	0.01	mg/Kg	0.005	0.002	
		SW7741	Selenium	0.02	mg/Kg	0.04	0.01	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.064	0.023	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.13	0.023	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.064	0.023	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.064	0.023	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.064	0.023	
			PCB-1254 (Aroclor 1254)	0.075	mg/Kg	0.064	0.023	
			PCB-1260 (Aroclor 1260)	0.61	mg/Kg	0.064	0.023	
		SW8270 SIM	2-Methylnaphthalene	0.0075	mg/Kg	0.012	0.0055	VJ
			Acenaphthene	0.0091	mg/Kg	0.012	0.0028	VJ
			Anthracene	0.0036	mg/Kg	0.012	0.0034	VJ
			Benzo(a)anthracene	ND	mg/Kg	0.012	0.0028	
			Benzo(a)pyrene	ND	mg/Kg	0.012	0.0046	
			Benzo(b)fluoranthene	0.0077	mg/Kg	0.012	0.0028	VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.012	0.0032	
			Benzo(k)fluoranthene	0.04	mg/Kg	0.012	0.0041	
			Chrysene	0.019	mg/Kg	0.012	0.0041	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.012	0.0037	
			Fluoranthene	0.095	mg/Kg	0.012	0.0032	
			Fluorene	0.011	mg/Kg	0.012	0.0025	VJ
			Indeno(1,2,3-cd)pyrene	0.0035	mg/Kg	0.012	0.0012	VJ
			Naphthalene	0.01	mg/Kg	0.012	0.0041	
			Phenanthrene	0.097	mg/Kg	0.012	0.0032	
			Pyrene	0.056	mg/Kg	0.012	0.0034	
01NE28PT3104	Plant Tissue	SW6010B	Chromium	1.72	mg/Kg	0.17	0.14	
		SW6020	Arsenic	2.14	mg/Kg	0.17	0.07	
			Barium	21.4	mg/Kg	0.007	0.007	
			Cadmium	0.042	mg/Kg	0.017	0.007	
			Copper	1.43	mg/Kg	0.067	0.01	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28PT3104	Plant Tissue	SW6020	Lead	1.2	mg/Kg	0.007	0.003	
			Nickel	0.634	mg/Kg	0.067	0.01	
			Silver	0.015	mg/Kg	0.007	0.007	
			Vanadium	1.21	mg/Kg	0.067	0.007	
			Zinc	7.68	mg/Kg	0.17	0.03	
		SW7471A	Mercury	0.021	mg/Kg	0.008	0.004	
		SW7741	Selenium	0.1	mg/Kg	0.07	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.022	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	0.04	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	0.0079	mg/Kg	0.005	0.0024	
			Acenaphthene	0.0064	mg/Kg	0.005	0.0012	
			Anthracene	0.0028	mg/Kg	0.005	0.0015	VJ
			Benzo(a)anthracene	0.0042	mg/Kg	0.005	0.0012	VJ
			Benzo(a)pyrene	0.0036	mg/Kg	0.005	0.002	VJ
			Benzo(b)fluoranthene	0.0084	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	0.0026	mg/Kg	0.005	0.0014	VJ
			Benzo(k)fluoranthene	0.0077	mg/Kg	0.005	0.0018	
			Chrysene	0.018	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	0.079	mg/Kg	0.005	0.0014	
			Fluorene	0.0082	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	0.0034	mg/Kg	0.005	0.0005	VJ
			Naphthalene	0.0088	mg/Kg	0.005	0.0018	
			Phenanthrene	0.083	mg/Kg	0.005	0.0014	
			Pyrene	0.048	mg/Kg	0.005	0.0015	
01NE28PT4101	Plant Tissue	SW6010B	Chromium	0.68	mg/Kg	0.05	0.04	
		SW6020	Arsenic	0.12	mg/Kg	0.05	0.02	
			Barium	3.71	mg/Kg	0.002	0.002	
			Cadmium	0.026	mg/Kg	0.005	0.002	
			Copper	0.535	mg/Kg	0.018	0.003	
			Lead	6.17	mg/Kg	0.002	0.001	
			Nickel	0.235	mg/Kg	0.018	0.003	
			Silver	0.007	mg/Kg	0.002	0.002	
			Vanadium	0.287	mg/Kg	0.018	0.002	
			Zinc	14.8	mg/Kg	0.05	0.01	
		SW7471A	Mercury	0.008	mg/Kg	0.002	0.001	
		SW7741	Selenium	0.03	mg/Kg	0.02	0.01	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.02	0.007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.04	0.007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.02	0.007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.02	0.007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.02	0.007	
			PCB-1254 (Aroclor 1254)	0.46	mg/Kg	0.02	0.007	
			PCB-1260 (Aroclor 1260)	0.92	mg/Kg	0.02	0.007	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.01	0.0048	
			Acenaphthene	ND	mg/Kg	0.01	0.0024	
			Anthracene	0.0035	mg/Kg	0.01	0.003	VJ
			Benzo(a)anthracene	0.0071	mg/Kg	0.01	0.0024	VJ
			Benzo(a)pyrene	0.0093	mg/Kg	0.01	0.004	VJ
			Benzo(b)fluoranthene	0.024	mg/Kg	0.01	0.0024	
			Benzo(g,h,i)perylene	0.0098	mg/Kg	0.01	0.0028	VJ
			Benzo(k)fluoranthene	0.017	mg/Kg	0.01	0.0036	
			Chrysene	0.031	mg/Kg	0.01	0.0036	
			Dibenzo(a,h)anthracene	0.0039	mg/Kg	0.01	0.0032	VJ

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28PT4101	Plant Tissue	SW8270 SIM	Fluoranthene	0.091	mg/Kg	0.01	0.0028	
			Fluorene	0.0057	mg/Kg	0.01	0.0022	VJ
			Indeno(1,2,3-cd)pyrene	0.012	mg/Kg	0.01	0.0011	
			Naphthalene	ND	mg/Kg	0.01	0.0036	
			Phenanthrene	0.076	mg/Kg	0.01	0.0028	
			Pyrene	0.064	mg/Kg	0.01	0.003	
01NE28PT4102	Plant Tissue	SW6010B	Chromium	5.11	mg/Kg	0.14	0.11	
		SW6020	Arsenic	2.38	mg/Kg	0.14	0.05	
			Barium	15	mg/Kg	0.005	0.005	
			Cadmium	0.081	mg/Kg	0.014	0.005	
			Copper	2.48	mg/Kg	0.055	0.008	
			Lead	2.82	mg/Kg	0.005	0.003	
			Nickel	2.31	mg/Kg	0.055	0.008	
			Silver	0.018	mg/Kg	0.005	0.005	
			Vanadium	2.94	mg/Kg	0.055	0.005	
			Zinc	27.3	mg/Kg	0.14	0.02	
		SW7471A	Mercury	0.017	mg/Kg	0.007	0.003	
		SW7741	Selenium	0.03	mg/Kg	0.05	0.02	VJ
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.02	0.007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.04	0.007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.02	0.007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.02	0.007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.02	0.007	
			PCB-1254 (Aroclor 1254)	0.25	mg/Kg	0.02	0.007	
			PCB-1260 (Aroclor 1260)	0.28	mg/Kg	0.02	0.007	
		SW8270 SIM	2-Methylnaphthalene	0.0067	mg/Kg	0.0099	0.0048	VJ
			Acenaphthene	0.0053	mg/Kg	0.0099	0.0024	VJ
			Anthracene	ND	mg/Kg	0.0099	0.003	
			Benzo(a)anthracene	0.0097	mg/Kg	0.0099	0.0024	VJ
			Benzo(a)pyrene	0.012	mg/Kg	0.0099	0.004	
			Benzo(b)fluoranthene	0.014	mg/Kg	0.0099	0.0024	
			Benzo(g,h,i)perylene	0.0087	mg/Kg	0.0099	0.0028	VJ
			Benzo(k)fluoranthene	0.015	mg/Kg	0.0099	0.0036	
			Chrysene	0.024	mg/Kg	0.0099	0.0036	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0099	0.0032	
			Fluoranthene	0.014	mg/Kg	0.0099	0.0028	
			Fluorene	0.0091	mg/Kg	0.0099	0.0022	VJ
			Indeno(1,2,3-cd)pyrene	0.011	mg/Kg	0.0099	0.0011	
			Naphthalene	ND	mg/Kg	0.0099	0.0036	
			Phenanthrene	0.024	mg/Kg	0.0099	0.0028	
			Pyrene	0.06	mg/Kg	0.0099	0.003	
01NE28PT5101	Plant Tissue	SW6010B	Chromium	77.5	mg/Kg	0.37	0.3	
		SW6020	Arsenic	1.47	mg/Kg	0.38	0.15	
			Barium	19.6	mg/Kg	0.015	0.015	
			Cadmium	0.137	mg/Kg	0.038	0.015	
			Copper	6.86	mg/Kg	0.15	0.023	
			Lead	11.3	mg/Kg	0.015	0.008	
			Nickel	8.61	mg/Kg	0.15	0.023	
			Silver	0.058	mg/Kg	0.015	0.015	
			Vanadium	7.28	mg/Kg	0.15	0.015	
			Zinc	30.1	mg/Kg	0.38	0.06	
		SW7471A	Mercury	0.033	mg/Kg	0.016	0.008	
		SW7741	Selenium	0.13	mg/Kg	0.15	0.05	VJ
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.2	0.07	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.4	0.07	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.2	0.07	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.2	0.07	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.2	0.07	
			PCB-1254 (Aroclor 1254)	9.3	mg/Kg	0.2	0.07	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28PT5101	Plant Tissue	SW8082	PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.2	0.07	
		SW8270 SIM	2-Methylnaphthalene	0.026	mg/Kg	0.005	0.0024	
			Acenaphthene	0.075	mg/Kg	0.005	0.0012	
			Anthracene	0.05	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	0.24	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	0.3	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	0.24	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	0.15	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	0.34	mg/Kg	0.005	0.0018	
			Chrysene	0.42	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	0.043	mg/Kg	0.005	0.0016	
			Fluoranthene	1	mg/Kg	0.025	0.007	
			Fluorene	0.077	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	0.21	mg/Kg	0.005	0.0005	
			Naphthalene	0.042	mg/Kg	0.005	0.0018	
			Phenanthrene	1	mg/Kg	0.025	0.007	
			Pyrene	0.93	mg/Kg	0.005	0.0015	
01NE28PT5102	Plant Tissue	SW6010B	Chromium	0.68	mg/Kg	0.09	0.07	
		SW6020	Arsenic	ND	mg/Kg	0.08	0.03	
			Barium	14.6	mg/Kg	0.003	0.003	
			Cadmium	0.087	mg/Kg	0.008	0.003	
			Copper	1.25	mg/Kg	0.033	0.005	
			Lead	0.29	mg/Kg	0.003	0.002	
			Nickel	1.3	mg/Kg	0.033	0.005	
			Silver	ND	mg/Kg	0.003	0.003	
			Vanadium	0.171	mg/Kg	0.033	0.003	
			Zinc	8.47	mg/Kg	0.08	0.01	
		SW7471A	Mercury	0.003	mg/Kg	0.004	0.002	
		SW7741	Selenium	ND	mg/Kg	0.03	0.01	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.0027	0.0009	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.0053	0.0009	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.0027	0.0009	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.0027	0.0009	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.0027	0.0009	
			PCB-1254 (Aroclor 1254)	0.12	mg/Kg	0.0027	0.0009	
			PCB-1260 (Aroclor 1260)	0.067	mg/Kg	0.0027	0.0009	
		SW8270 SIM	2-Methylnaphthalene	0.009	mg/Kg	0.0098	0.0047	VJ
			Acenaphthene	0.023	mg/Kg	0.0098	0.0024	
			Anthracene	ND	mg/Kg	0.0098	0.003	
			Benzo(a)anthracene	0.0058	mg/Kg	0.0098	0.0024	VJ
			Benzo(a)pyrene	0.0069	mg/Kg	0.0098	0.0039	VJ
			Benzo(b)fluoranthene	0.011	mg/Kg	0.0098	0.0024	
			Benzo(g,h,i)perylene	0.0044	mg/Kg	0.0098	0.0028	VJ
			Benzo(k)fluoranthene	0.11	mg/Kg	0.0098	0.0035	
			Chrysene	0.011	mg/Kg	0.0098	0.0035	
			Dibenzo(a,h)anthracene	0.0035	mg/Kg	0.0098	0.0032	VJ
			Fluoranthene	0.025	mg/Kg	0.0098	0.0028	
			Fluorene	0.014	mg/Kg	0.0098	0.0022	
			Indeno(1,2,3-cd)pyrene	0.0094	mg/Kg	0.0098	0.0011	VJ
			Naphthalene	0.0082	mg/Kg	0.0098	0.0035	VJ
			Phenanthrene	0.058	mg/Kg	0.0098	0.0028	
			Pyrene	0.021	mg/Kg	0.0098	0.003	
01NE28PT5103	Plant Tissue	SW6010B	Chromium	1.7	mg/Kg	0.4	0.32	
		SW6020	Arsenic	0.37	mg/Kg	0.4	0.16	VJ
			Barium	3.18	mg/Kg	0.016	0.016	
			Cadmium	0.081	mg/Kg	0.04	0.016	
			Copper	3.28	mg/Kg	0.161	0.024	
			Lead	11.1	mg/Kg	0.016	0.008	
			Nickel	0.645	mg/Kg	0.161	0.024	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28PT5103	Plant Tissue	SW6020	Silver	0.026	mg/Kg	0.016	0.016	
			Vanadium	0.616	mg/Kg	0.161	0.016	
			Zinc	27.7	mg/Kg	0.4	0.06	
		SW7471A	Mercury	0.16	mg/Kg	0.018	0.009	
		SW7741	Selenium	0.99	mg/Kg	0.16	0.05	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.047	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	0.052	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	0.0028	mg/Kg	0.005	0.0024	VJ
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	0.0018	mg/Kg	0.005	0.0012	VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	0.002	mg/Kg	0.005	0.0018	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	0.0072	mg/Kg	0.005	0.0014	
			Fluorene	0.002	mg/Kg	0.005	0.0011	VJ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.0005	
			Naphthalene	0.0027	mg/Kg	0.005	0.0018	VJ
			Phenanthrene	0.014	mg/Kg	0.005	0.0014	
			Pyrene	0.0048	mg/Kg	0.005	0.0015	VJ
01NE28PT5104	Plant Tissue	SW6010B	Chromium	5.89	mg/Kg	0.15	0.12	
		SW6020	Arsenic	0.29	mg/Kg	0.15	0.06	
			Barium	25.9	mg/Kg	0.006	0.006	
			Cadmium	0.201	mg/Kg	0.015	0.006	
			Copper	1.83	mg/Kg	0.058	0.009	
			Lead	3.43	mg/Kg	0.006	0.003	
			Nickel	2.45	mg/Kg	0.058	0.009	
			Silver	0.012	mg/Kg	0.006	0.006	
			Vanadium	1.72	mg/Kg	0.058	0.006	
			Zinc	14.2	mg/Kg	0.15	0.02	
		SW7471A	Mercury	0.014	mg/Kg	0.01	0.005	
		SW7741	Selenium	0.02	mg/Kg	0.06	0.02	VJ
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.13	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	0.067	mg/Kg	0.002	0.0007	VHB
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	0.0024	mg/Kg	0.005	0.0012	VJ
			Anthracene	0.0026	mg/Kg	0.005	0.0015	VJ
			Benzo(a)anthracene	0.0095	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	0.013	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	0.015	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	0.0075	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	0.011	mg/Kg	0.005	0.0018	
			Chrysene	0.018	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	0.0041	mg/Kg	0.005	0.0016	VJ
			Fluoranthene	0.029	mg/Kg	0.005	0.0014	
			Fluorene	0.0031	mg/Kg	0.005	0.0011	VJ

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28PT5104	Plant Tissue	SW8270 SIM	Indeno(1,2,3-cd)pyrene	0.013	mg/Kg	0.005	0.0005	
			Naphthalene	0.0023	mg/Kg	0.005	0.0018	VJ
			Phenanthrene	0.029	mg/Kg	0.005	0.0014	
			Pyrene	0.031	mg/Kg	0.005	0.0015	
01NE28PT5105	Plant Tissue	SW6010B	Chromium	1.35	mg/Kg	0.32	0.26	
		SW6020	Arsenic	ND	mg/Kg	0.33	0.13	
			Barium	26.7	mg/Kg	0.013	0.013	
			Cadmium	0.024	mg/Kg	0.033	0.013	VJ
			Copper	3.38	mg/Kg	0.13	0.02	
			Lead	1.36	mg/Kg	0.013	0.006	
			Nickel	0.968	mg/Kg	0.13	0.02	
			Silver	ND	mg/Kg	0.013	0.013	
			Vanadium	0.267	mg/Kg	0.13	0.013	
			Zinc	14.9	mg/Kg	0.33	0.05	
		SW7471A	Mercury	0.027	mg/Kg	0.013	0.007	
		SW7741	Selenium	ND	mg/Kg	0.13	0.04	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.15	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	0.078	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	0.014	mg/Kg	0.005	0.0024	
			Acenaphthene	0.052	mg/Kg	0.005	0.0012	
			Anthracene	0.011	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	0.069	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	0.089	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	0.053	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	0.059	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	0.11	mg/Kg	0.005	0.0018	
			Chrysene	0.11	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	0.023	mg/Kg	0.005	0.0016	
			Fluoranthene	0.45	mg/Kg	0.005	0.0014	
			Fluorene	0.032	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	0.1	mg/Kg	0.005	0.0005	
			Naphthalene	0.013	mg/Kg	0.005	0.0018	
			Phenanthrene	0.28	mg/Kg	0.005	0.0014	
			Pyrene	0.27	mg/Kg	0.005	0.0015	
01NE28PT5106	Plant Tissue	SW6010B	Chromium	0.74	mg/Kg	0.24	0.19	
		SW6020	Arsenic	ND	mg/Kg	0.24	0.1	
			Barium	29.3	mg/Kg	0.01	0.01	
			Cadmium	1.13	mg/Kg	0.024	0.01	
			Copper	1.77	mg/Kg	0.097	0.015	
			Lead	0.384	mg/Kg	0.01	0.005	
			Nickel	1	mg/Kg	0.097	0.015	
			Silver	0.012	mg/Kg	0.01	0.01	
			Vanadium	0.045	mg/Kg	0.097	0.01	VJ
			Zinc	49.7	mg/Kg	0.24	0.04	
		SW7471A	Mercury	0.008	mg/Kg	0.011	0.006	VJ
		SW7741	Selenium	ND	mg/Kg	0.1	0.03	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.0035	0.0013	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.007	0.0013	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.0035	0.0013	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.0035	0.0013	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.0035	0.0013	
			PCB-1254 (Aroclor 1254)	0.07	mg/Kg	0.0035	0.0013	
			PCB-1260 (Aroclor 1260)	0.015	mg/Kg	0.0035	0.0013	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.01	0.0048	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28PT5106	Plant Tissue	SW8270 SIM	Acenaphthene	0.0039	mg/Kg	0.01	0.0024	VJ
			Anthracene	0.0075	mg/Kg	0.01	0.003	VJ
			Benzo(a)anthracene	0.0057	mg/Kg	0.01	0.0024	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.01	0.004	
			Benzo(b)fluoranthene	0.005	mg/Kg	0.01	0.0024	VJ
			Benzo(g,h,i)perylene	0.0031	mg/Kg	0.01	0.0028	VJ
			Benzo(k)fluoranthene	ND	mg/Kg	0.01	0.0053	
			Chrysene	0.0072	mg/Kg	0.01	0.0036	VJ
			Dibenzo(a,h)anthracene	0.0035	mg/Kg	0.01	0.0032	VJ
			Fluoranthene	0.042	mg/Kg	0.01	0.0028	
			Fluorene	0.0072	mg/Kg	0.01	0.0022	VJ
			Indeno(1,2,3-cd)pyrene	0.0049	mg/Kg	0.01	0.0011	VJ
			Naphthalene	0.0043	mg/Kg	0.01	0.0036	VJ
			Phenanthrene	0.064	mg/Kg	0.01	0.0028	
			Pyrene	0.069	mg/Kg	0.01	0.003	
01NE28PT5107	Plant Tissue	E200.8	Antimony	0.003	mg/Kg	0.006	0.002	VJ
			Arsenic	ND	mg/Kg	0.06	0.01	
			Barium	0.445	mg/Kg	0.012	0.002	
			Cadmium	0.002	mg/Kg	0.0062	0.001	VJ
			Lead	0.065	mg/Kg	0.002	0.001	
			Nickel	0.06	mg/Kg	0.02	0.02	
			Silver	ND	mg/Kg	0.002	0.002	
			Vanadium	0.016	mg/Kg	0.025	0.002	VJ
			Zinc	1.29	mg/Kg	0.06	0.02	
		SW6010B	Chromium	ND	mg/Kg	0.06	0.05	
			Copper	0.58	mg/Kg	0.12	0.02	
		SW7471A	Mercury	ND	mg/Kg	0.004	0.002	
		SW7741	Selenium	ND	mg/Kg	0.025	0.007	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.0049	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	0.0049	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.0005	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	0.0027	mg/Kg	0.005	0.0014	VJ
			Pyrene	ND	mg/Kg	0.005	0.0015	
01NE28PT5204	Plant Tissue	SW6010B	Chromium	13.4	mg/Kg	0.19	0.15	
		SW6020	Arsenic	0.8	mg/Kg	0.18	0.07	
			Barium	53.1	mg/Kg	0.007	0.007	
			Cadmium	0.295	mg/Kg	0.018	0.007	
			Copper	4.18	mg/Kg	0.073	0.011	
			Lead	6.54	mg/Kg	0.007	0.004	
			Nickel	5.03	mg/Kg	0.073	0.011	
			Silver	0.034	mg/Kg	0.007	0.007	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28PT5204	Plant Tissue	SW6020	Vanadium	4.53	mg/Kg	0.073	0.007	
			Zinc	24.1	mg/Kg	0.18	0.03	
		SW7471A	Mercury	0.027	mg/Kg	0.012	0.006	
		SW7741	Selenium	0.08	mg/Kg	0.07	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.01	0.0035	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.02	0.0035	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.01	0.0035	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.01	0.0035	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.01	0.0035	
			PCB-1254 (Aroclor 1254)	0.31	mg/Kg	0.01	0.0035	
			PCB-1260 (Aroclor 1260)	0.13	mg/Kg	0.01	0.0035	
		SW8270 SIM	2-Methylnaphthalene	0.023	mg/Kg	0.005	0.0024	
			Acenaphthene	0.075	mg/Kg	0.005	0.0012	
			Anthracene	0.029	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	0.21	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	0.33	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	0.29	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	0.19	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	0.3	mg/Kg	0.005	0.0018	
			Chrysene	0.41	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	0.062	mg/Kg	0.005	0.0016	
			Fluoranthene	0.98	mg/Kg	0.005	0.0014	
			Fluorene	0.078	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	0.36	mg/Kg	0.005	0.0005	
			Naphthalene	0.041	mg/Kg	0.005	0.0018	
			Phenanthrene	1.1	mg/Kg	0.025	0.007	
			Pyrene	0.92	mg/Kg	0.005	0.0015	
01NE28PT6101	Plant Tissue	SW6010B	Chromium	6.05	mg/Kg	0.37	0.3	
		SW6020	Arsenic	0.62	mg/Kg	0.38	0.15	
			Barium	16.9	mg/Kg	0.015	0.015	
			Cadmium	0.286	mg/Kg	0.038	0.015	
			Copper	4.26	mg/Kg	0.15	0.023	
			Lead	3.93	mg/Kg	0.015	0.008	
			Nickel	3.18	mg/Kg	0.15	0.023	
			Silver	0.039	mg/Kg	0.015	0.015	
			Vanadium	3.41	mg/Kg	0.15	0.015	
			Zinc	39.8	mg/Kg	0.38	0.06	
		SW7471A	Mercury	0.039	mg/Kg	0.016	0.008	
		SW7741	Selenium	0.1	mg/Kg	0.15	0.05	VJ
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.011	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	0.041	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	0.0035	mg/Kg	0.005	0.0024	VJ
			Acenaphthene	0.0023	mg/Kg	0.005	0.0012	VJ
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	0.0021	mg/Kg	0.005	0.0012	VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	0.0022	mg/Kg	0.005	0.0018	VJ
			Chrysene	0.0019	mg/Kg	0.005	0.0018	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	0.011	mg/Kg	0.005	0.0014	
			Fluorene	0.0053	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.0005	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28PT6101	Plant Tissue	SW8270 SIM	Naphthalene	0.0018	mg/Kg	0.005	0.0018	VJ
			Phenanthrene	0.028	mg/Kg	0.005	0.0014	
			Pyrene	0.006	mg/Kg	0.005	0.0015	
01NE28PT6102	Plant Tissue	SW6010B	Chromium	1.01	mg/Kg	0.22	0.17	
		SW6020	Arsenic	ND	mg/Kg	0.21	0.09	
			Barium	11.5	mg/Kg	0.009	0.009	
			Cadmium	0.883	mg/Kg	0.021	0.009	
			Copper	2.19	mg/Kg	0.086	0.013	
			Lead	0.682	mg/Kg	0.009	0.004	
			Nickel	1.1	mg/Kg	0.086	0.013	
			Silver	0.011	mg/Kg	0.009	0.009	
			Vanadium	0.359	mg/Kg	0.086	0.009	
			Zinc	56.7	mg/Kg	0.21	0.03	
		SW7471A	Mercury	0.008	mg/Kg	0.01	0.005	VJ
		SW7741	Selenium	ND	mg/Kg	0.09	0.03	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.0068	0.0024	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.014	0.0024	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.0068	0.0024	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.0068	0.0024	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.0068	0.0024	
			PCB-1254 (Aroclor 1254)	0.011	mg/Kg	0.0068	0.0024	
			PCB-1260 (Aroclor 1260)	0.005	mg/Kg	0.0068	0.0024	VJ
		SW8270 SIM	2-Methylnaphthalene	0.0076	mg/Kg	0.011	0.0053	VJ
			Acenaphthene	0.013	mg/Kg	0.011	0.0027	
			Anthracene	0.049	mg/Kg	0.011	0.0033	
			Benzo(a)anthracene	0.075	mg/Kg	0.011	0.0027	
			Benzo(a)pyrene	0.021	mg/Kg	0.011	0.0044	
			Benzo(b)fluoranthene	0.053	mg/Kg	0.011	0.0027	
			Benzo(g,h,i)perylene	0.013	mg/Kg	0.011	0.0031	
			Benzo(k)fluoranthene	0.046	mg/Kg	0.011	0.004	
			Chrysene	0.087	mg/Kg	0.011	0.004	
			Dibenzo(a,h)anthracene	0.013	mg/Kg	0.011	0.0036	
			Fluoranthene	0.38	mg/Kg	0.011	0.0031	
			Fluorene	0.022	mg/Kg	0.011	0.0025	
			Indeno(1,2,3-cd)pyrene	0.024	mg/Kg	0.011	0.0012	
			Naphthalene	0.0078	mg/Kg	0.011	0.004	VJ
			Phenanthrene	0.29	mg/Kg	0.011	0.0031	
			Pyrene	0.28	mg/Kg	0.011	0.0033	
01NE28PT6103	Plant Tissue	SW6010B	Chromium	8.99	mg/Kg	0.13	0.1	
		SW6020	Arsenic	0.56	mg/Kg	0.13	0.05	
			Barium	21.3	mg/Kg	0.005	0.005	
			Cadmium	0.175	mg/Kg	0.013	0.005	
			Copper	2.82	mg/Kg	0.051	0.008	
			Lead	3.48	mg/Kg	0.005	0.003	
			Nickel	4.2	mg/Kg	0.051	0.008	
			Silver	0.019	mg/Kg	0.005	0.005	
			Vanadium	3.64	mg/Kg	0.051	0.005	
			Zinc	27.6	mg/Kg	0.13	0.02	
		SW7471A	Mercury	0.021	mg/Kg	0.008	0.004	
		SW7741	Selenium	0.05	mg/Kg	0.05	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.0097	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	0.0095	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	0.0037	mg/Kg	0.005	0.0012	VJ

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28PT6103	Plant Tissue	SW8270 SIM	Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	0.0025	mg/Kg	0.005	0.0012	VJ
			Benzo(a)pyrene	0.0027	mg/Kg	0.005	0.002	VJ
			Benzo(b)fluoranthene	0.0045	mg/Kg	0.005	0.0012	VJ
			Benzo(g,h,i)perylene	0.0019	mg/Kg	0.005	0.0014	VJ
			Benzo(k)fluoranthene	0.0045	mg/Kg	0.005	0.0018	VJ
			Chrysene	0.0037	mg/Kg	0.005	0.0018	VJ
			Dibenzo(a,h)anthracene	0.0019	mg/Kg	0.005	0.0016	VJ
			Fluoranthene	0.0083	mg/Kg	0.005	0.0014	
			Fluorene	0.0025	mg/Kg	0.005	0.0011	VJ
			Indeno(1,2,3-cd)pyrene	0.0041	mg/Kg	0.005	0.0005	VJ
			Naphthalene	0.0019	mg/Kg	0.005	0.0018	VJ
			Phenanthrene	0.013	mg/Kg	0.005	0.0014	
			Pyrene	0.0073	mg/Kg	0.005	0.0015	
01NE28SD111	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	640	mg/Kg	15	2.8	
		AK103	RRO	520	mg/Kg	31	31	VJ
		DU	Total Organic Carbon (TOC)	21	PERCENT	0.044	0.005	
		E160.3	Total Solids	11.8	PERCENT	0.01	0.01	
		SW6010B	Chromium	17	mg/Kg	3	0.9	
			Lead	20	mg/Kg	10	4	
			Zinc	94	mg/Kg	4	2	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.21	0.0548	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.41	0.0656	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.21	0.0283	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.21	0.0334	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.21	0.0219	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.21	0.0663	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.21	0.0537	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.037	0.037	
			Acenaphthene	ND	mg/Kg	0.037	0.025	
			Acenaphthylene	0.04	mg/Kg	0.037	0.024	
			Anthracene	ND	mg/Kg	0.037	0.024	
			Benzo(a)anthracene	ND	mg/Kg	0.037	0.02	
			Benzo(a)pyrene	ND	mg/Kg	0.037	0.018	
			Benzo(b)fluoranthene	ND	mg/Kg	0.037	0.024	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.037	0.02	
			Benzo(k)fluoranthene	ND	mg/Kg	0.037	0.018	
			Chrysene	0.044	mg/Kg	0.037	0.017	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.037	0.018	
			Dibenzofuran	ND	mg/Kg	0.037	0.037	
			Fluoranthene	0.16	mg/Kg	0.037	0.019	
			Fluorene	ND	mg/Kg	0.037	0.028	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.037	0.025	
			Naphthalene	ND	mg/Kg	0.037	0.035	
			Phenanthrene	0.21	mg/Kg	0.037	0.024	
			Pyrene	0.18	mg/Kg	0.037	0.021	
01NE28SD112	Subsurface Sediment Depth 1.5 to 2 feet bgs	AK102	DRO	610	mg/Kg	56	10	
		AK103	RRO	1800	mg/Kg	110	110	VJ
		DU	Total Organic Carbon (TOC)	7	PERCENT	0.005	0.005	
		E160.3	Total Solids	49.5	PERCENT	0.01	0.01	
		SW6010B	Chromium	23.7	mg/Kg	0.9	0.2	
			Lead	14	mg/Kg	4	1	
			Zinc	46	mg/Kg	1	0.5	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.075	0.02	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.15	0.024	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.075	0.0103	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.075	0.0122	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.075	0.008	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.075	0.0242	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD112	Subsurface Sediment Depth 1.5 to 2 feet bgs	SW8082	PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.075	0.0196	
		SW8270 SIM	2-Methylnaphthalene	0.039	mg/Kg	0.014	0.014	
			Acenaphthene	ND	mg/Kg	0.014	0.0091	
			Acenaphthylene	ND	mg/Kg	0.014	0.0089	
			Anthracene	ND	mg/Kg	0.014	0.0089	
			Benzo(a)anthracene	ND	mg/Kg	0.014	0.0075	
			Benzo(a)pyrene	ND	mg/Kg	0.014	0.0065	
			Benzo(b)fluoranthene	ND	mg/Kg	0.014	0.0087	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.014	0.0075	
			Benzo(k)fluoranthene	ND	mg/Kg	0.014	0.0067	
			Chrysene	ND	mg/Kg	0.014	0.0063	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.014	0.0065	
			Dibenzofuran	ND	mg/Kg	0.014	0.014	
			Fluoranthene	ND	mg/Kg	0.014	0.0069	
			Fluorene	ND	mg/Kg	0.014	0.01	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.014	0.0093	
			Naphthalene	ND	mg/Kg	0.014	0.013	
			Phenanthrene	0.015	mg/Kg	0.014	0.0087	
			Pyrene	ND	mg/Kg	0.014	0.0077	
01NE28SD113	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	180	mg/Kg	19	3.4	
		AK103	RRO	420	mg/Kg	38	38	VJ
		DU	Total Organic Carbon (TOC)	30	PERCENT	0.056	0.005	
		E160.3	Total Solids	12.1	PERCENT	0.01	0.01	
		SW6010B	Chromium	12	mg/Kg	3	0.9	
			Lead	10	mg/Kg	10	4	
			Zinc	183	mg/Kg	4	2	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.26	0.0685	VQQ
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.51	0.0821	VQQ
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.26	0.0354	VQQ
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.26	0.0418	VQQ
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.26	0.0274	VQQ
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.26	0.0828	VQQ
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.26	0.0672	VQQ
		SW8270 SIM	2-Methylnaphthalene	0.16	mg/Kg	0.045	0.045	
			Acenaphthene	ND	mg/Kg	0.045	0.03	
			Acenaphthylene	ND	mg/Kg	0.045	0.03	
			Anthracene	ND	mg/Kg	0.045	0.03	
			Benzo(a)anthracene	ND	mg/Kg	0.045	0.025	
			Benzo(a)pyrene	ND	mg/Kg	0.045	0.021	
			Benzo(b)fluoranthene	ND	mg/Kg	0.045	0.029	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.045	0.025	
			Benzo(k)fluoranthene	ND	mg/Kg	0.045	0.022	
			Chrysene	ND	mg/Kg	0.045	0.021	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.045	0.021	
			Dibenzofuran	ND	mg/Kg	0.045	0.045	
			Fluoranthene	ND	mg/Kg	0.045	0.023	
			Fluorene	0.063	mg/Kg	0.045	0.034	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.045	0.031	
			Naphthalene	ND	mg/Kg	0.045	0.042	
			Phenanthrene	ND	mg/Kg	0.045	0.029	
			Pyrene	0.063	mg/Kg	0.045	0.026	
01NE28SD114	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	680	mg/Kg	70	13	
		AK103	RRO	3200	mg/Kg	140	140	VJ
		DU	Total Organic Carbon (TOC)	37	PERCENT	0.062	0.005	
		E160.3	Total Solids	26.8	PERCENT	0.01	0.01	
		SW6010B	Chromium	20	mg/Kg	2	0.4	
			Lead	10	mg/Kg	6	2	
			Zinc	37	mg/Kg	2	0.9	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.094	0.0251	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD114	Sediment Depth 0 to 0.5 feet bgs	SW8082	PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.19	0.03	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.094	0.013	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.094	0.0153	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.094	0.01	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.094	0.0303	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.094	0.0246	
		SW8270 SIM	2-Methylnaphthalene	1.4	mg/Kg	0.017	0.017	VLB
			Acenaphthene	0.074	mg/Kg	0.017	0.011	
			Acenaphthylene	ND	mg/Kg	0.017	0.011	VQQ
			Anthracene	ND	mg/Kg	0.017	0.011	VQQ
			Benzo(a)anthracene	ND	mg/Kg	0.017	0.0093	VQQ
			Benzo(a)pyrene	ND	mg/Kg	0.017	0.008	VQQ
			Benzo(b)fluoranthene	ND	mg/Kg	0.017	0.011	VQQ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.017	0.0093	VQQ
			Benzo(k)fluoranthene	ND	mg/Kg	0.017	0.0083	VQQ
			Chrysene	ND	mg/Kg	0.017	0.0078	VQQ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.017	0.008	VQQ
			Dibenzofuran	0.033	mg/Kg	0.017	0.017	VLB
			Fluoranthene	ND	mg/Kg	0.017	0.0085	VQQ
			Fluorene	0.14	mg/Kg	0.017	0.013	VLB
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.017	0.012	VQQ
			Naphthalene	0.33	mg/Kg	0.017	0.016	VLB
			Phenanthrene	0.018	mg/Kg	0.017	0.011	VLB
			Pyrene	ND	mg/Kg	0.017	0.0095	VQQ
01NE28SD115	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	360	mg/Kg	68	12	
		AK103	RRO	1600	mg/Kg	140	140	VJ
		DU	Total Organic Carbon (TOC)	35	PERCENT	0.043	0.005	
		E160.3	Total Solids	17.1	PERCENT	0.01	0.01	
		SW6010B	Chromium	10	mg/Kg	3	0.8	
			Lead	ND	mg/Kg	10	4	
			Zinc	16	mg/Kg	4	2	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.23	0.0607	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.45	0.0727	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.23	0.0314	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.23	0.037	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.23	0.0243	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.23	0.0734	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.23	0.0595	
		SW8270 SIM	2-Methylnaphthalene	8.7	mg/Kg	0.27	0.27	
			Acenaphthene	0.34	mg/Kg	0.041	0.028	
			Acenaphthylene	ND	mg/Kg	0.041	0.027	
			Anthracene	ND	mg/Kg	0.041	0.027	
			Benzo(a)anthracene	ND	mg/Kg	0.041	0.023	
			Benzo(a)pyrene	ND	mg/Kg	0.041	0.02	
			Benzo(b)fluoranthene	ND	mg/Kg	0.041	0.026	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.041	0.023	
			Benzo(k)fluoranthene	ND	mg/Kg	0.041	0.02	
			Chrysene	ND	mg/Kg	0.041	0.019	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.041	0.02	
			Dibenzofuran	0.15	mg/Kg	0.041	0.041	
			Fluoranthene	ND	mg/Kg	0.041	0.021	
			Fluorene	0.6	mg/Kg	0.041	0.031	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.041	0.028	
			Naphthalene	1.7	mg/Kg	0.041	0.039	
			Phenanthrene	ND	mg/Kg	0.041	0.026	
			Pyrene	ND	mg/Kg	0.041	0.023	
01NE28SD116	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	310	mg/Kg	50	7.2	
		AK103	RRO	1500	mg/Kg	100	100	VJ
		DU	Total Organic Carbon (TOC)	3.9	PERCENT	0.005	0.005	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD116	Sediment Depth 0 to 0.5 feet bgs	E160.3	Total Solids	59.6	PERCENT	0.01	0.01	
		SW6010B	Chromium	25.7	mg/Kg	0.7	0.2	
			Lead	9	mg/Kg	3	1	
			Zinc	45.1	mg/Kg	0.9	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.053	0.0142	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.11	0.0171	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.053	0.0074	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.053	0.0087	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.053	0.0057	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.053	0.0172	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.053	0.014	
		SW8270 SIM	2-Methylnaphthalene	0.21	mg/Kg	0.0094	0.0094	
			Acenaphthene	ND	mg/Kg	0.0094	0.0063	
			Acenaphthylene	ND	mg/Kg	0.0094	0.0062	
			Anthracene	ND	mg/Kg	0.0094	0.0062	
			Benzo(a)anthracene	ND	mg/Kg	0.0094	0.0052	
			Benzo(a)pyrene	ND	mg/Kg	0.0094	0.0045	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0094	0.006	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0094	0.0052	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0094	0.0046	
			Chrysene	ND	mg/Kg	0.0094	0.0044	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0094	0.0045	
			Dibenzofuran	ND	mg/Kg	0.0094	0.0094	
			Fluoranthene	ND	mg/Kg	0.0094	0.0048	
			Fluorene	ND	mg/Kg	0.0094	0.007	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0094	0.0065	
			Naphthalene	0.11	mg/Kg	0.0094	0.0089	
			Phenanthrene	ND	mg/Kg	0.0094	0.006	
			Pyrene	ND	mg/Kg	0.0094	0.0053	
01NE28SD117	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	1500	mg/Kg	50	8.2	
		AK103	RRO	920	mg/Kg	100	100	VJ
		DU	Total Organic Carbon (TOC)	4.5	PERCENT	0.005	0.005	
		E160.3	Total Solids	67.3	PERCENT	0.01	0.01	
		SW6010B	Chromium	4.4	mg/Kg	0.7	0.2	
			Lead	5	mg/Kg	3	1	
			Zinc	17	mg/Kg	0.9	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.061	0.0163	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.12	0.0195	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.061	0.0084	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.061	0.0099	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.061	0.0065	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.061	0.0197	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.061	0.016	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.091	0.091	
			Acenaphthene	ND	mg/Kg	0.091	0.061	
			Acenaphthylene	ND	mg/Kg	0.091	0.06	
			Anthracene	ND	mg/Kg	0.091	0.06	
			Benzo(a)anthracene	ND	mg/Kg	0.091	0.05	
			Benzo(a)pyrene	ND	mg/Kg	0.091	0.044	
			Benzo(b)fluoranthene	ND	mg/Kg	0.091	0.059	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.091	0.05	
			Benzo(k)fluoranthene	ND	mg/Kg	0.091	0.045	
			Chrysene	ND	mg/Kg	0.091	0.042	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.091	0.044	
			Dibenzofuran	ND	mg/Kg	0.091	0.091	
			Fluoranthene	ND	mg/Kg	0.091	0.046	
			Fluorene	ND	mg/Kg	0.091	0.068	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.091	0.063	
			Naphthalene	ND	mg/Kg	0.091	0.086	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD117	Sediment	SW8270 SIM	Phenanthrene	ND	mg/Kg	0.091	0.059	
			Pyrene	ND	mg/Kg	0.091	0.052	
01NE28SD118	Subsurface Sediment	AK102	DRO	330	mg/Kg	50	6.7	
		AK103	RRO	430	mg/Kg	100	100	VJ
		DU	Total Organic Carbon (TOC)	3.5	PERCENT	0.005	0.005	
		E160.3	Total Solids	66.2	PERCENT	0.01	0.01	
		SW6010B	Chromium	19	mg/Kg	0.7	0.2	
			Lead	9	mg/Kg	3	0.9	
			Zinc	40.1	mg/Kg	0.8	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.05	0.0133	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.099	0.0159	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.05	0.0069	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.05	0.0081	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.05	0.0053	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.05	0.016	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.05	0.013	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.012	0.012	
			Acenaphthene	ND	mg/Kg	0.012	0.0084	
			Acenaphthylene	ND	mg/Kg	0.012	0.0082	
			Anthracene	ND	mg/Kg	0.012	0.0082	
			Benzo(a)anthracene	ND	mg/Kg	0.012	0.0069	
			Benzo(a)pyrene	ND	mg/Kg	0.012	0.006	
			Benzo(b)fluoranthene	ND	mg/Kg	0.012	0.008	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.012	0.0069	
			Benzo(k)fluoranthene	ND	mg/Kg	0.012	0.0061	
			Chrysene	ND	mg/Kg	0.012	0.0058	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.012	0.006	
			Dibenzofuran	ND	mg/Kg	0.012	0.012	
			Fluoranthene	ND	mg/Kg	0.012	0.0063	
			Fluorene	ND	mg/Kg	0.012	0.0093	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.012	0.0086	
			Naphthalene	ND	mg/Kg	0.012	0.012	
			Phenanthrene	ND	mg/Kg	0.012	0.008	
			Pyrene	ND	mg/Kg	0.012	0.0071	
01NE28SD119	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	36000	mg/Kg	1500	270	
		AK103	RRO	9000	mg/Kg	3000	3000	VJ
		DU	Total Organic Carbon (TOC)	32	PERCENT	0.075	0.005	
		E160.3	Total Solids	12.2	PERCENT	0.01	0.01	
		SW6010B	Chromium	39	mg/Kg	3	0.7	
			Lead	70	mg/Kg	10	3	
			Zinc	1040	mg/Kg	3	2	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.2	0.0545	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.41	0.0653	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.2	0.0282	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.2	0.0333	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.2	0.0218	
			PCB-1254 (Aroclor 1254)	0.34	mg/Kg	0.2	0.0659	
			PCB-1260 (Aroclor 1260)	0.39	mg/Kg	0.2	0.0535	
		SW8270 SIM	2-Methylnaphthalene	7.5	mg/Kg	0.31	0.31	
			Acenaphthene	1.7	mg/Kg	0.31	0.21	
			Acenaphthylene	ND	mg/Kg	0.31	0.21	
			Anthracene	0.69	mg/Kg	0.31	0.21	
			Benzo(a)anthracene	0.72	mg/Kg	0.31	0.17	
			Benzo(a)pyrene	0.44	mg/Kg	0.31	0.15	
			Benzo(b)fluoranthene	0.97	mg/Kg	0.31	0.2	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.31	0.17	
			Benzo(k)fluoranthene	0.66	mg/Kg	0.31	0.15	
			Chrysene	2.2	mg/Kg	0.31	0.15	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.31	0.15	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD119	Sediment Depth 0 to 0.5 feet bgs	SW8270 SIM	Dibenzofuran	3.3	mg/Kg	0.31	0.31	
			Fluoranthene	9.7	mg/Kg	0.31	0.16	
			Fluorene	4.6	mg/Kg	0.31	0.23	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.31	0.22	
			Naphthalene	3.9	mg/Kg	0.31	0.3	
			Phenanthrene	21	mg/Kg	0.31	0.2	
			Pyrene	6.9	mg/Kg	0.31	0.18	
01NE28SD120	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	480	mg/Kg	15	2.6	VLB
		AK103	RRO	1000	mg/Kg	29	29	VLB
		DU	Total Organic Carbon (TOC)	28	PERCENT	0.057	0.005	
		E160.3	Total Solids	14.4	PERCENT	0.01	0.01	
		SW6010B	Chromium	13	mg/Kg	4	1	
			Lead	ND	mg/Kg	20	5	
			Zinc	28	mg/Kg	5	2	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.19	0.0518	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.39	0.0621	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.19	0.0268	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.19	0.0317	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.19	0.0208	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.19	0.0627	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.19	0.0509	
		SW8270 SIM	2-Methylnaphthalene	6.6	mg/Kg	0.12	0.12	
			Acenaphthene	0.27	mg/Kg	0.012	0.0078	
			Acenaphthylene	ND	mg/Kg	0.012	0.0076	
			Anthracene	ND	mg/Kg	0.012	0.0076	
			Benzo(a)anthracene	ND	mg/Kg	0.012	0.0064	
			Benzo(a)pyrene	ND	mg/Kg	0.012	0.0056	
			Benzo(b)fluoranthene	ND	mg/Kg	0.012	0.0075	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.012	0.0064	
			Benzo(k)fluoranthene	ND	mg/Kg	0.012	0.0057	
			Chrysene	ND	mg/Kg	0.012	0.0054	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.012	0.0056	
			Dibenzofuran	0.095	mg/Kg	0.012	0.012	
			Fluoranthene	0.015	mg/Kg	0.012	0.0059	
			Fluorene	0.25	mg/Kg	0.012	0.0087	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.012	0.008	
			Naphthalene	1.6	mg/Kg	0.12	0.11	
			Phenanthrene	0.05	mg/Kg	0.012	0.0075	
			Pyrene	ND	mg/Kg	0.012	0.0066	
01NE28SD121	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	74	mg/Kg	14	2.4	
		AK103	RRO	580	mg/Kg	27	27	VJ
		DU	Total Organic Carbon (TOC)	34	PERCENT	0.066	0.005	
		E160.3	Total Solids	17.8	PERCENT	0.01	0.01	
		SW6010B	Chromium	9	mg/Kg	3	0.8	
			Lead	ND	mg/Kg	10	4	
			Zinc	21	mg/Kg	4	2	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.18	0.0483	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.36	0.0579	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.18	0.025	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.18	0.0295	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.18	0.0194	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.18	0.0585	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.18	0.0474	
		SW8270 SIM	2-Methylnaphthalene	0.33	mg/Kg	0.011	0.011	
			Acenaphthene	0.016	mg/Kg	0.011	0.0073	
			Acenaphthylene	ND	mg/Kg	0.011	0.0071	
			Anthracene	ND	mg/Kg	0.011	0.0071	
			Benzo(a)anthracene	ND	mg/Kg	0.011	0.006	
			Benzo(a)pyrene	ND	mg/Kg	0.011	0.0052	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD121	Sediment Depth 0 to 0.5 feet bgs	SW8270 SIM	Benzo(b)fluoranthene	ND	mg/Kg	0.011	0.0069	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.011	0.006	
			Benzo(k)fluoranthene	ND	mg/Kg	0.011	0.0053	
			Chrysene	ND	mg/Kg	0.011	0.005	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.011	0.0052	
			Dibenzofuran	ND	mg/Kg	0.011	0.011	
			Fluoranthene	0.016	mg/Kg	0.011	0.0055	
			Fluorene	0.011	mg/Kg	0.011	0.0081	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.011	0.0074	
			Naphthalene	0.24	mg/Kg	0.011	0.01	
			Phenanthrene	0.015	mg/Kg	0.011	0.0069	
			Pyrene	ND	mg/Kg	0.011	0.0061	
01NE28SD122	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	310	mg/Kg	17	3	VLB
		AK103	RRO	910	mg/Kg	33	33	VLB
		DU	Total Organic Carbon (TOC)	49	PERCENT	0.075	0.005	
		E160.3	Total Solids	8.28	PERCENT	0.01	0.01	
		SW6010B	Chromium	ND	mg/Kg	4	1	
			Lead	ND	mg/Kg	20	5	
			Zinc	15	mg/Kg	5	2	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.22	0.0593	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.44	0.0711	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.22	0.0307	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.22	0.0362	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.22	0.0238	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.22	0.0718	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.22	0.0582	
		SW8270 SIM	2-Methylnaphthalene	0.022	mg/Kg	0.013	0.013	
			Acenaphthene	ND	mg/Kg	0.013	0.009	
			Acenaphthylene	ND	mg/Kg	0.013	0.0088	
			Anthracene	ND	mg/Kg	0.013	0.0088	
			Benzo(a)anthracene	ND	mg/Kg	0.013	0.0074	
			Benzo(a)pyrene	ND	mg/Kg	0.013	0.0064	
			Benzo(b)fluoranthene	ND	mg/Kg	0.013	0.0086	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.013	0.0074	
			Benzo(k)fluoranthene	ND	mg/Kg	0.013	0.0066	
			Chrysene	ND	mg/Kg	0.013	0.0062	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.013	0.0064	
			Dibenzofuran	ND	mg/Kg	0.013	0.013	
			Fluoranthene	ND	mg/Kg	0.013	0.0068	
			Fluorene	ND	mg/Kg	0.013	0.0099	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.013	0.0092	
			Naphthalene	0.024	mg/Kg	0.013	0.013	
			Phenanthrene	ND	mg/Kg	0.013	0.0086	
			Pyrene	ND	mg/Kg	0.013	0.0076	
01NE28SD123	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	1600	mg/Kg	18	3.2	VLB
		AK103	RRO	1500	mg/Kg	35	35	VLB
		DU	Total Organic Carbon (TOC)	44	PERCENT	0.11	0.005	
		E160.3	Total Solids	7.65	PERCENT	0.01	0.01	
		SW6010B	Chromium	7	mg/Kg	2	0.6	
			Lead	ND	mg/Kg	9	3	
			Zinc	13	mg/Kg	3	1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.24	0.0632	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.47	0.0757	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.24	0.0327	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.24	0.0386	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.24	0.0253	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.24	0.0764	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.24	0.062	
		SW8270 SIM	2-Methylnaphthalene	0.32	mg/Kg	0.014	0.014	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD123	Sediment Depth 0 to 0.5 feet bgs	SW8270 SIM	Acenaphthene	ND	mg/Kg	0.014	0.0095	
			Acenaphthylene	ND	mg/Kg	0.014	0.0092	
			Anthracene	ND	mg/Kg	0.014	0.0092	
			Benzo(a)anthracene	ND	mg/Kg	0.014	0.0078	
			Benzo(a)pyrene	ND	mg/Kg	0.014	0.0067	
			Benzo(b)fluoranthene	ND	mg/Kg	0.014	0.009	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.014	0.0078	
			Benzo(k)fluoranthene	ND	mg/Kg	0.014	0.0069	
			Chrysene	ND	mg/Kg	0.014	0.0065	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.014	0.0067	
			Dibenzofuran	ND	mg/Kg	0.014	0.014	
			Fluoranthene	ND	mg/Kg	0.014	0.0071	
			Fluorene	ND	mg/Kg	0.014	0.011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.014	0.0097	
			Naphthalene	1.6	mg/Kg	0.042	0.04	
			Phenanthrene	ND	mg/Kg	0.014	0.009	
			Pyrene	ND	mg/Kg	0.014	0.008	
01NE28SD124	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	650	mg/Kg	39	7	
		AK103	RRO	2000	mg/Kg	78	78	VJ
		DU	Total Organic Carbon (TOC)	14	PERCENT	0.084	0.005	
		E160.3	Total Solids	33.9	PERCENT	0.01	0.01	
		SW6010B	Chromium	19	mg/Kg	2	0.5	
			Lead	ND	mg/Kg	8	3	
			Zinc	30	mg/Kg	2	1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.1	0.0277	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.21	0.0332	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.1	0.0143	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.1	0.0169	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.1	0.0111	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.1	0.0336	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.1	0.0272	
		SW8270 SIM	2-Methylnaphthalene	7	mg/Kg	0.15	0.15	
			Acenaphthene	0.065	mg/Kg	0.0062	0.0042	
			Acenaphthylene	ND	mg/Kg	0.0062	0.0041	
			Anthracene	ND	mg/Kg	0.0062	0.0041	
			Benzo(a)anthracene	ND	mg/Kg	0.0062	0.0034	
			Benzo(a)pyrene	ND	mg/Kg	0.0062	0.003	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0062	0.004	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0062	0.0034	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0062	0.0031	
			Chrysene	ND	mg/Kg	0.0062	0.0029	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0062	0.003	
			Dibenzofuran	0.026	mg/Kg	0.0062	0.0062	
			Fluoranthene	ND	mg/Kg	0.0062	0.0031	
			Fluorene	0.073	mg/Kg	0.0062	0.0046	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0062	0.0043	
			Naphthalene	4.8	mg/Kg	0.15	0.15	
			Phenanthrene	0.026	mg/Kg	0.0062	0.004	
			Pyrene	ND	mg/Kg	0.0062	0.0035	
01NE28SD125	Subsurface Sediment Depth 1.5 to 2 feet bgs	AK103	RRO	880	mg/Kg	100	100	VJ
		DU	Total Organic Carbon (TOC)	7.4	PERCENT	0.005	0.005	
		E160.3	Total Solids	50.2	PERCENT	0.01	0.01	
		SW6010B	Chromium	18	mg/Kg	1	0.3	
			Lead	7	mg/Kg	4	1	
			Zinc	30	mg/Kg	1	0.6	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.067	0.018	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.13	0.0216	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.067	0.0093	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.067	0.011	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD125	Subsurface Sediment Depth 1.5 to 2 feet bgs	SW8082	PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.067	0.0072	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.067	0.0218	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.067	0.0177	
		SW8270 SIM	2-Methylnaphthalene	6.5	mg/Kg	0.2	0.2	
			Acenaphthene	0.14	mg/Kg	0.02	0.013	
			Acenaphthylene	ND	mg/Kg	0.02	0.013	
			Anthracene	ND	mg/Kg	0.02	0.013	
			Benzo(a)anthracene	ND	mg/Kg	0.02	0.011	
			Benzo(a)pyrene	ND	mg/Kg	0.02	0.0094	
			Benzo(b)fluoranthene	ND	mg/Kg	0.02	0.013	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.02	0.011	
			Benzo(k)fluoranthene	ND	mg/Kg	0.02	0.0097	
			Chrysene	ND	mg/Kg	0.02	0.0092	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.02	0.0094	
			Dibenzofuran	0.043	mg/Kg	0.02	0.02	
			Fluoranthene	ND	mg/Kg	0.02	0.01	
			Fluorene	0.14	mg/Kg	0.02	0.015	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.02	0.014	
			Naphthalene	3.7	mg/Kg	0.2	0.19	
			Phenanthrene	0.049	mg/Kg	0.02	0.013	
			Pyrene	ND	mg/Kg	0.02	0.011	
01NE28SD126	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	5200	mg/Kg	150	26	
		AK103	RRO	1200	mg/Kg	290	290	VJ
		DU	Total Organic Carbon (TOC)	31	PERCENT	0.083	0.005	
		E160.3	Total Solids	19	PERCENT	0.01	0.01	
		SW6010B	Chromium	9	mg/Kg	3	0.7	
			Lead	ND	mg/Kg	10	3	
			Zinc	36	mg/Kg	3	1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.2	0.0524	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.39	0.0627	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.2	0.0271	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.2	0.032	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.2	0.021	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.2	0.0633	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.2	0.0514	
		SW8270 SIM	2-Methylnaphthalene	3.4	mg/Kg	0.28	0.28	
			Acenaphthene	0.67	mg/Kg	0.28	0.19	
			Acenaphthylene	ND	mg/Kg	0.28	0.18	
			Anthracene	ND	mg/Kg	0.28	0.18	
			Benzo(a)anthracene	ND	mg/Kg	0.28	0.15	
			Benzo(a)pyrene	ND	mg/Kg	0.28	0.13	
			Benzo(b)fluoranthene	ND	mg/Kg	0.28	0.18	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.28	0.15	
			Benzo(k)fluoranthene	ND	mg/Kg	0.28	0.14	
			Chrysene	ND	mg/Kg	0.28	0.13	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.28	0.13	
			Dibenzofuran	0.39	mg/Kg	0.28	0.28	
			Fluoranthene	ND	mg/Kg	0.28	0.14	
			Fluorene	1.4	mg/Kg	0.28	0.21	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.28	0.19	
			Naphthalene	0.61	mg/Kg	0.28	0.26	
			Phenanthrene	0.28	mg/Kg	0.28	0.18	
			Pyrene	ND	mg/Kg	0.28	0.16	
01NE28SD127	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	3100	mg/Kg	100	18	
		AK103	RRO	300	mg/Kg	200	200	VJ
		DU	Total Organic Carbon (TOC)	31	PERCENT	0.055	0.005	
		E160.3	Total Solids	18	PERCENT	0.01	0.01	
		SW6010B	Chromium	12	mg/Kg	2	0.6	
			Lead	ND	mg/Kg	9	3	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD127	Sediment Depth 0 to 0.5 feet bgs	SW6010B	Zinc	33	mg/Kg	3	1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.14	0.0362	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.27	0.0434	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.14	0.0187	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.14	0.0221	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.14	0.0145	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.14	0.0438	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.14	0.0355	
		SW8270 SIM	2-Methylnaphthalene	33	mg/Kg	1.9	1.9	
			Acenaphthene	1.4	mg/Kg	0.19	0.13	
			Acenaphthylene	ND	mg/Kg	0.19	0.13	
			Anthracene	ND	mg/Kg	0.19	0.13	
			Benzo(a)anthracene	ND	mg/Kg	0.19	0.11	
			Benzo(a)pyrene	ND	mg/Kg	0.19	0.092	
			Benzo(b)fluoranthene	ND	mg/Kg	0.19	0.12	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.19	0.11	
			Benzo(k)fluoranthene	ND	mg/Kg	0.19	0.095	
			Chrysene	ND	mg/Kg	0.19	0.089	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.19	0.092	
			Dibenzofuran	0.54	mg/Kg	0.19	0.19	
			Fluoranthene	ND	mg/Kg	0.19	0.098	
			Fluorene	2.5	mg/Kg	0.19	0.14	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.19	0.13	
			Naphthalene	3.4	mg/Kg	0.19	0.18	
			Phenanthrene	1	mg/Kg	0.19	0.12	
			Pyrene	ND	mg/Kg	0.19	0.11	
01NE28SD128	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	15000	mg/Kg	270	49	
		AK103	RRO	1800	mg/Kg	540	540	VJ
		DU	Total Organic Carbon (TOC)	19	PERCENT	0.052	0.005	
		E160.3	Total Solids	21.8	PERCENT	0.01	0.01	
		SW6010B	Chromium	18	mg/Kg	2	0.5	
			Lead	13	mg/Kg	8	2	
			Zinc	59	mg/Kg	2	1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.18	0.0483	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.36	0.0579	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.18	0.025	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.18	0.0295	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.18	0.0194	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.18	0.0585	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.18	0.0474	
		SW8270 SIM	2-Methylnaphthalene	18	mg/Kg	0.28	0.28	
			Acenaphthene	1	mg/Kg	0.28	0.19	
			Acenaphthylene	ND	mg/Kg	0.28	0.18	
			Anthracene	ND	mg/Kg	0.28	0.18	
			Benzo(a)anthracene	ND	mg/Kg	0.28	0.15	
			Benzo(a)pyrene	ND	mg/Kg	0.28	0.13	
			Benzo(b)fluoranthene	ND	mg/Kg	0.28	0.18	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.28	0.15	
			Benzo(k)fluoranthene	ND	mg/Kg	0.28	0.14	
			Chrysene	ND	mg/Kg	0.28	0.13	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.28	0.13	
			Dibenzofuran	0.44	mg/Kg	0.28	0.28	
			Fluoranthene	ND	mg/Kg	0.28	0.14	
			Fluorene	2.6	mg/Kg	0.28	0.21	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.28	0.19	
			Naphthalene	1.6	mg/Kg	0.28	0.26	
			Phenanthrene	0.81	mg/Kg	0.28	0.18	
			Pyrene	ND	mg/Kg	0.28	0.16	
01NE28SD129	Sediment	AK102	DRO	2500	mg/Kg	98	18	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD129	Sediment Depth 0 to 0.5 feet bgs	AK103	RRO	660	mg/Kg	200	200	VJ
		DU	Total Organic Carbon (TOC)	41	PERCENT	0.048	0.005	
		E160.3	Total Solids	15.6	PERCENT	0.01	0.01	
		SW6010B	Chromium	5	mg/Kg	2	0.6	
			Lead	ND	mg/Kg	10	3	
			Zinc	12	mg/Kg	3	1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.13	0.0347	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.26	0.0416	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.13	0.0179	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.13	0.0212	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.13	0.0139	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.13	0.0419	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.13	0.034	
		SW8270 SIM	2-Methylnaphthalene	4.1	mg/Kg	0.15	0.15	
			Acenaphthylene	ND	mg/Kg	0.0077	0.0051	
			Anthracene	0.0092	mg/Kg	0.0077	0.0051	
			Benzo(a)anthracene	ND	mg/Kg	0.0077	0.0042	
			Benzo(a)pyrene	ND	mg/Kg	0.0077	0.0037	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0077	0.0049	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0077	0.0042	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0077	0.0038	
			Chrysene	ND	mg/Kg	0.0077	0.0036	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0077	0.0037	
			Dibenzofuran	0.028	mg/Kg	0.0077	0.0077	
			Fluoranthene	0.0084	mg/Kg	0.0077	0.0039	
			Fluorene	0.12	mg/Kg	0.0077	0.0057	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0077	0.0053	
			Naphthalene	7.4	mg/Kg	0.15	0.14	
			Phenanthrene	0.048	mg/Kg	0.0077	0.0049	
			Pyrene	0.01	mg/Kg	0.0077	0.0044	
01NE28SD130	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	14000	mg/Kg	260	47	
		AK103	RRO	2200	mg/Kg	520	520	VJ
		DU	Total Organic Carbon (TOC)	26	PERCENT	0.055	0.005	
		E160.3	Total Solids	19.8	PERCENT	0.01	0.01	
		SW6010B	Chromium	10	mg/Kg	3	0.9	
			Lead	20	mg/Kg	10	4	
			Zinc	96	mg/Kg	4	2	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.17	0.0464	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.35	0.0557	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.17	0.024	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.17	0.0283	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.17	0.0186	
			PCB-1254 (Aroclor 1254)	0.2	mg/Kg	0.17	0.0562	
			PCB-1260 (Aroclor 1260)	0.31	mg/Kg	0.17	0.0456	
		SW8270 SIM	2-Methylnaphthalene	23	mg/Kg	2.6	2.6	
			Acenaphthene	ND	mg/Kg	2.6	1.8	
			Acenaphthylene	ND	mg/Kg	2.6	1.7	
			Anthracene	ND	mg/Kg	2.6	1.7	
			Benzo(a)anthracene	ND	mg/Kg	2.6	1.5	
			Benzo(a)pyrene	ND	mg/Kg	2.6	1.3	
			Benzo(b)fluoranthene	ND	mg/Kg	2.6	1.7	
			Benzo(g,h,i)perylene	ND	mg/Kg	2.6	1.5	
			Benzo(k)fluoranthene	ND	mg/Kg	2.6	1.3	
			Chrysene	ND	mg/Kg	2.6	1.2	
			Dibenzo(a,h)anthracene	ND	mg/Kg	2.6	1.3	
			Dibenzofuran	ND	mg/Kg	2.6	2.6	
			Fluoranthene	ND	mg/Kg	2.6	1.3	
			Fluorene	3.2	mg/Kg	2.6	2	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	2.6	1.8	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD130	Sediment Depth 0 to 0.5 feet bgs	SW8270 SIM	Naphthalene	3.2	mg/Kg	2.6	2.5	
			Phenanthrene	2.9	mg/Kg	2.6	1.7	
			Pyrene	ND	mg/Kg	2.6	1.5	
01NE28SD131	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	56000	mg/Kg	1000	170	
		AK103	RRO	9900	mg/Kg	2000	2000	VJ
		DU	Total Organic Carbon (TOC)	7.6	PERCENT	0.005	0.005	
		E160.3	Total Solids	49.7	PERCENT	0.01	0.01	
		SW6010B	Chromium	18.6	mg/Kg	0.8	0.2	
			Lead	21	mg/Kg	3	1	
			Zinc	96.3	mg/Kg	1	0.5	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.064	0.0172	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.13	0.0206	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.064	0.0089	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.064	0.0105	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.064	0.0069	
			PCB-1254 (Aroclor 1254)	0.16	mg/Kg	0.064	0.0208	
			PCB-1260 (Aroclor 1260)	0.14	mg/Kg	0.064	0.0169	
		SW8270 SIM	2-Methylnaphthalene	33	mg/Kg	0.96	0.96	
			Acenaphthene	2.4	mg/Kg	0.96	0.65	
			Acenaphthylene	ND	mg/Kg	0.96	0.63	
			Anthracene	ND	mg/Kg	0.96	0.63	
			Benzo(a)anthracene	ND	mg/Kg	0.96	0.53	
			Benzo(a)pyrene	ND	mg/Kg	0.96	0.46	
			Benzo(b)fluoranthene	ND	mg/Kg	0.96	0.62	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.96	0.53	
			Benzo(k)fluoranthene	ND	mg/Kg	0.96	0.48	
			Chrysene	ND	mg/Kg	0.96	0.45	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.96	0.46	
			Dibenzofuran	ND	mg/Kg	0.96	0.96	
			Fluoranthene	ND	mg/Kg	0.96	0.49	
			Fluorene	6.9	mg/Kg	0.96	0.72	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.96	0.66	
			Naphthalene	6.4	mg/Kg	0.96	0.91	
			Phenanthrene	4.8	mg/Kg	0.96	0.62	
			Pyrene	ND	mg/Kg	0.96	0.55	
01NE28SD132	Subsurface Sediment Depth 1.5 to 2 feet bgs	AK102	DRO	150000	mg/Kg	2700	480	
		AK103	RRO	6900	mg/Kg	5300	5300	VJ
		DU	Total Organic Carbon (TOC)	16	PERCENT	0.058	0.005	
		E160.3	Total Solids	22.5	PERCENT	0.01	0.01	
		SW6010B	Chromium	19	mg/Kg	5	1	
			Lead	ND	mg/Kg	20	7	
			Zinc	114	mg/Kg	6	3	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.18	0.0477	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.36	0.0571	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.18	0.0246	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.18	0.0291	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.18	0.0191	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.18	0.0577	
			PCB-1260 (Aroclor 1260)	0.19	mg/Kg	0.18	0.0468	
		SW8270 SIM	2-Methylnaphthalene	53	mg/Kg	2.6	2.6	
			Acenaphthene	4.5	mg/Kg	2.6	1.8	
			Acenaphthylene	ND	mg/Kg	2.6	1.7	
			Anthracene	ND	mg/Kg	2.6	1.7	
			Benzo(a)anthracene	ND	mg/Kg	2.6	1.5	
			Benzo(a)pyrene	ND	mg/Kg	2.6	1.3	
			Benzo(b)fluoranthene	ND	mg/Kg	2.6	1.7	
			Benzo(g,h,i)perylene	ND	mg/Kg	2.6	1.5	
			Benzo(k)fluoranthene	ND	mg/Kg	2.6	1.3	
			Chrysene	ND	mg/Kg	2.6	1.2	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD132	Subsurface Sediment Depth 1.5 to 2 feet bgs	SW8270 SIM	Dibenzo(a,h)anthracene	ND	mg/Kg	2.6	1.3	
			Dibenzofuran	ND	mg/Kg	2.6	2.6	
			Fluoranthene	ND	mg/Kg	2.6	1.3	
			Fluorene	10	mg/Kg	2.6	2	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	2.6	1.8	
			Naphthalene	14	mg/Kg	2.6	2.5	
			Phenanthrene	7.4	mg/Kg	2.6	1.7	
			Pyrene	ND	mg/Kg	2.6	1.5	
01NE28SD133	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	4900	mg/Kg	110	20	
		AK103	RRO	780	mg/Kg	230	230	VJ
		DU	Total Organic Carbon (TOC)	21	PERCENT	0.076	0.005	
		E160.3	Total Solids	20.6	PERCENT	0.01	0.01	
		SW6010B	Chromium	10	mg/Kg	2	0.6	
			Lead	ND	mg/Kg	9	3	
			Zinc	45	mg/Kg	3	1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.15	0.04	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.3	0.0479	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.15	0.0207	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.15	0.0244	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.15	0.016	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.15	0.0484	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.15	0.0393	
		SW8270 SIM	2-Methylnaphthalene	5.9	mg/Kg	0.088	0.088	
			Acenaphthene	0.63	mg/Kg	0.088	0.06	
			Acenaphthylene	ND	mg/Kg	0.088	0.058	
			Anthracene	0.15	mg/Kg	0.088	0.058	
			Benzo(a)anthracene	ND	mg/Kg	0.088	0.049	
			Benzo(a)pyrene	ND	mg/Kg	0.088	0.042	
			Benzo(b)fluoranthene	ND	mg/Kg	0.088	0.057	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.088	0.049	
			Benzo(k)fluoranthene	ND	mg/Kg	0.088	0.044	
			Chrysene	ND	mg/Kg	0.088	0.041	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.088	0.042	
			Dibenzofuran	0.62	mg/Kg	0.088	0.088	
			Fluoranthene	ND	mg/Kg	0.088	0.045	
			Fluorene	2.2	mg/Kg	0.088	0.066	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.088	0.061	
			Naphthalene	0.78	mg/Kg	0.088	0.083	
			Phenanthrene	1.1	mg/Kg	0.088	0.057	
			Pyrene	ND	mg/Kg	0.088	0.05	
01NE28SD134	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	5200	mg/Kg	110	20	
		AK103	RRO	ND	mg/Kg	230	230	VQQ
		DU	Total Organic Carbon (TOC)	18	PERCENT	0.064	0.005	
		E160.3	Total Solids	16.7	PERCENT	0.01	0.01	
		SW6010B	Chromium	22	mg/Kg	3	0.9	
			Lead	ND	mg/Kg	10	4	
			Zinc	63	mg/Kg	4	2	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.15	0.04	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.3	0.0479	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.15	0.0207	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.15	0.0244	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.15	0.016	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.15	0.0484	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.15	0.0393	
		SW8270 SIM	2-Methylnaphthalene	26	mg/Kg	1.6	1.6	
			Acenaphthene	2.3	mg/Kg	0.16	0.11	
			Acenaphthylene	ND	mg/Kg	0.16	0.11	
			Anthracene	ND	mg/Kg	0.16	0.11	
			Benzo(a)anthracene	ND	mg/Kg	0.16	0.09	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD134	Sediment Depth 0 to 0.5 feet bgs	SW8270 SIM	Benzo(a)pyrene	ND	mg/Kg	0.16	0.077	
			Benzo(b)fluoranthene	ND	mg/Kg	0.16	0.1	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.16	0.09	
			Benzo(k)fluoranthene	ND	mg/Kg	0.16	0.08	
			Chrysene	ND	mg/Kg	0.16	0.075	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.16	0.077	
			Dibenzofuran	1.2	mg/Kg	0.16	0.16	
			Fluoranthene	ND	mg/Kg	0.16	0.082	
			Fluorene	4.1	mg/Kg	0.16	0.12	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.16	0.11	
			Naphthalene	1.8	mg/Kg	0.16	0.15	
			Phenanthrene	3.4	mg/Kg	0.16	0.1	
			Pyrene	ND	mg/Kg	0.16	0.092	
01NE28SD135	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	1100	mg/Kg	50	6	
		AK103	RRO	400	mg/Kg	100	100	VJ
		DU	Total Organic Carbon (TOC)	0.55	PERCENT	0.005	0.005	
		E160.3	Total Solids	70.2	PERCENT	0.01	0.01	
		SW6010B	Chromium	9.9	mg/Kg	0.7	0.2	
			Lead	4	mg/Kg	3	0.9	
			Zinc	22.2	mg/Kg	0.8	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.045	0.0119	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.089	0.0143	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.045	0.0062	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.045	0.0073	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.045	0.0048	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.045	0.0144	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.045	0.0117	
		SW8270 SIM	2-Methylnaphthalene	0.29	mg/Kg	0.067	0.067	
			Acenaphthene	0.11	mg/Kg	0.067	0.045	
			Acenaphthylene	ND	mg/Kg	0.067	0.044	
			Anthracene	ND	mg/Kg	0.067	0.044	
			Benzo(a)anthracene	ND	mg/Kg	0.067	0.037	
			Benzo(a)pyrene	ND	mg/Kg	0.067	0.032	
			Benzo(b)fluoranthene	ND	mg/Kg	0.067	0.043	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.067	0.037	
			Benzo(k)fluoranthene	ND	mg/Kg	0.067	0.033	
			Chrysene	ND	mg/Kg	0.067	0.031	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.067	0.032	
			Dibenzofuran	ND	mg/Kg	0.067	0.067	
			Fluoranthene	ND	mg/Kg	0.067	0.034	
			Fluorene	0.11	mg/Kg	0.067	0.05	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.067	0.046	
			Naphthalene	0.093	mg/Kg	0.067	0.063	
			Phenanthrene	0.15	mg/Kg	0.067	0.043	
			Pyrene	ND	mg/Kg	0.067	0.038	
01NE28SD136	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	40000	mg/Kg	1200	220	
		AK103	RRO	13000	mg/Kg	2400	2400	VJ
		DU	Total Organic Carbon (TOC)	9.1	PERCENT	0.005	0.005	
		E160.3	Total Solids	38.8	PERCENT	0.01	0.01	
		SW6010B	Chromium	31	mg/Kg	1	0.3	
			Lead	64	mg/Kg	5	2	
			Zinc	200	mg/Kg	2	0.8	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.08	0.0214	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.16	0.0256	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.08	0.011	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.08	0.013	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.08	0.0086	
			PCB-1254 (Aroclor 1254)	0.1	mg/Kg	0.08	0.0258	
			PCB-1260 (Aroclor 1260)	0.25	mg/Kg	0.08	0.021	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD136	Sediment Depth 0 to 0.5 feet bgs	SW8270 SIM	2-Methylnaphthalene	78	mg/Kg	1.2	1.2	
			Acenaphthene	5.7	mg/Kg	1.2	0.8	
			Acenaphthylene	ND	mg/Kg	1.2	0.79	
			Anthracene	ND	mg/Kg	1.2	0.79	
			Benzo(a)anthracene	ND	mg/Kg	1.2	0.66	
			Benzo(a)pyrene	ND	mg/Kg	1.2	0.57	
			Benzo(b)fluoranthene	ND	mg/Kg	1.2	0.77	
			Benzo(g,h,i)perylene	ND	mg/Kg	1.2	0.66	
			Benzo(k)fluoranthene	ND	mg/Kg	1.2	0.59	
			Chrysene	ND	mg/Kg	1.2	0.55	
			Dibenzo(a,h)anthracene	ND	mg/Kg	1.2	0.57	
			Dibenzofuran	1.9	mg/Kg	1.2	1.2	
			Fluoranthene	ND	mg/Kg	1.2	0.61	
			Fluorene	10	mg/Kg	1.2	0.89	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.2	0.82	
			Naphthalene	29	mg/Kg	1.2	1.1	
			Phenanthrene	5.2	mg/Kg	1.2	0.77	
			Pyrene	ND	mg/Kg	1.2	0.68	
01NE28SD137	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	560	mg/Kg	50	8.2	
		AK103	RRO	2700	mg/Kg	100	100	VJ
		DU	Total Organic Carbon (TOC)	7.5	PERCENT	0.005	0.005	
		E160.3	Total Solids	54	PERCENT	0.01	0.01	
		SW6010B	Chromium	24	mg/Kg	1	0.3	
			Lead	13	mg/Kg	4	1	
			Zinc	51	mg/Kg	1	0.6	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.06	0.0161	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.12	0.0193	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.06	0.0083	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.06	0.0098	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.06	0.0065	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.06	0.0195	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.06	0.0158	
		SW8270 SIM	2-Methylnaphthalene	0.022	mg/Kg	0.011	0.011	
			Acenaphthene	ND	mg/Kg	0.011	0.0073	
			Acenaphthylene	ND	mg/Kg	0.011	0.0071	
			Anthracene	ND	mg/Kg	0.011	0.0071	
			Benzo(a)anthracene	ND	mg/Kg	0.011	0.006	
			Benzo(a)pyrene	ND	mg/Kg	0.011	0.0052	
			Benzo(b)fluoranthene	ND	mg/Kg	0.011	0.007	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.011	0.006	
			Benzo(k)fluoranthene	ND	mg/Kg	0.011	0.0053	
			Chrysene	ND	mg/Kg	0.011	0.005	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.011	0.0052	
			Dibenzofuran	ND	mg/Kg	0.011	0.011	
			Fluoranthene	ND	mg/Kg	0.011	0.0055	
			Fluorene	ND	mg/Kg	0.011	0.0081	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.011	0.0074	
			Naphthalene	0.037	mg/Kg	0.011	0.01	
			Phenanthrene	ND	mg/Kg	0.011	0.007	
			Pyrene	ND	mg/Kg	0.011	0.0062	
01NE28SD138	Subsurface Sediment Depth 1.5 to 2 feet bgs	AK102	DRO	170	mg/Kg	25	4.4	
		AK103	RRO	1200	mg/Kg	50	50	VJ
		DU	Total Organic Carbon (TOC)	6.9	PERCENT	0.005	0.005	
		E160.3	Total Solids	61.2	PERCENT	0.01	0.01	
		SW6010B	Chromium	24.6	mg/Kg	1	0.3	
			Lead	13	mg/Kg	4	1	
			Zinc	48	mg/Kg	1	0.6	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.065	0.0173	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.13	0.0207	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD138	Subsurface Sediment Depth 1.5 to 2 feet bgs	SW8082	PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.065	0.0089	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.065	0.0106	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.065	0.0069	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.065	0.0209	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.065	0.017	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.012	0.012	
			Acenaphthene	ND	mg/Kg	0.012	0.0078	
			Acenaphthylene	ND	mg/Kg	0.012	0.0076	
			Anthracene	ND	mg/Kg	0.012	0.0076	
			Benzo(a)anthracene	ND	mg/Kg	0.012	0.0064	
			Benzo(a)pyrene	ND	mg/Kg	0.012	0.0055	
			Benzo(b)fluoranthene	ND	mg/Kg	0.012	0.0074	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.012	0.0064	
			Benzo(k)fluoranthene	ND	mg/Kg	0.012	0.0057	
			Chrysene	ND	mg/Kg	0.012	0.0054	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.012	0.0055	
			Dibenzofuran	ND	mg/Kg	0.012	0.012	
			Fluoranthene	ND	mg/Kg	0.012	0.0059	
			Fluorene	ND	mg/Kg	0.012	0.0087	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.012	0.008	
			Naphthalene	ND	mg/Kg	0.012	0.011	
			Phenanthrene	ND	mg/Kg	0.012	0.0074	
			Pyrene	ND	mg/Kg	0.012	0.0066	
01NE28SD139	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	520	mg/Kg	58	10	
		AK103	RRO	2300	mg/Kg	120	120	VJ
		DU	Total Organic Carbon (TOC)	10	PERCENT	0.005	0.005	
		E160.3	Total Solids	37.3	PERCENT	0.01	0.01	
		SW6010B	Chromium	22	mg/Kg	1	0.3	
			Lead	13	mg/Kg	5	2	
			Zinc	53	mg/Kg	2	0.7	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.078	0.0208	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.16	0.0249	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.078	0.0107	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.078	0.0127	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.078	0.0083	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.078	0.0251	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.078	0.0204	
		SW8270 SIM	2-Methylnaphthalene	0.032	mg/Kg	0.014	0.014	
			Acenaphthene	0.092	mg/Kg	0.014	0.0093	
			Acenaphthylene	ND	mg/Kg	0.014	0.0091	
			Anthracene	0.032	mg/Kg	0.014	0.0091	
			Benzo(a)anthracene	0.2	mg/Kg	0.014	0.0076	
			Benzo(a)pyrene	0.25	mg/Kg	0.014	0.0066	
			Benzo(b)fluoranthene	0.2	mg/Kg	0.014	0.0089	
			Benzo(g,h,i)perylene	0.066	mg/Kg	0.014	0.0076	
			Benzo(k)fluoranthene	0.37	mg/Kg	0.014	0.0068	
			Chrysene	0.33	mg/Kg	0.014	0.0064	
			Dibenzo(a,h)anthracene	0.023	mg/Kg	0.014	0.0066	
			Dibenzofuran	0.065	mg/Kg	0.014	0.014	
			Fluoranthene	0.85	mg/Kg	0.014	0.007	
			Fluorene	0.083	mg/Kg	0.014	0.01	
			Indeno(1,2,3-cd)pyrene	0.085	mg/Kg	0.014	0.0095	
			Naphthalene	0.043	mg/Kg	0.014	0.013	
			Phenanthrene	0.91	mg/Kg	0.014	0.0089	
			Pyrene	0.7	mg/Kg	0.014	0.0078	
01NE28SD140	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	6900	mg/Kg	340	60	
		AK103	RRO	1300	mg/Kg	670	670	VJ
		DU	Total Organic Carbon (TOC)	11	PERCENT	0.005	0.005	
		E160.3	Total Solids	50.5	PERCENT	0.01	0.01	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD140	Sediment Depth 0 to 0.5 feet bgs	SW6010B	Chromium	19	mg/Kg	1	0.3	
			Lead	17	mg/Kg	4	1	
			Zinc	50	mg/Kg	1	0.6	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.03	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.036	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.0155	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0183	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.012	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0363	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0294	
		SW8270 SIM	2-Methylnaphthalene	0.83	mg/Kg	0.83	0.83	
			Acenaphthene	1.3	mg/Kg	0.83	0.56	
			Acenaphthylene	ND	mg/Kg	0.83	0.55	
			Anthracene	ND	mg/Kg	0.83	0.55	
			Benzo(a)anthracene	ND	mg/Kg	0.83	0.46	
			Benzo(a)pyrene	ND	mg/Kg	0.83	0.4	
			Benzo(b)fluoranthene	ND	mg/Kg	0.83	0.54	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.83	0.46	
			Benzo(k)fluoranthene	ND	mg/Kg	0.83	0.41	
			Chrysene	ND	mg/Kg	0.83	0.39	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.83	0.4	
			Dibenzofuran	ND	mg/Kg	0.83	0.83	
			Fluoranthene	ND	mg/Kg	0.83	0.42	
			Fluorene	ND	mg/Kg	0.83	0.62	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.83	0.58	
			Naphthalene	1.3	mg/Kg	0.83	0.79	
			Phenanthrene	ND	mg/Kg	0.83	0.54	
			Pyrene	ND	mg/Kg	0.83	0.48	
01NE28SD141	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	430	mg/Kg	52	9.4	
		AK103	RRO	2200	mg/Kg	100	100	VJ
		DU	Total Organic Carbon (TOC)	12	PERCENT	0.005	0.005	
		E160.3	Total Solids	49.4	PERCENT	0.01	0.01	
		SW6010B	Chromium	21.7	mg/Kg	1	0.3	
			Lead	10	mg/Kg	4	1	
			Zinc	33	mg/Kg	1	0.6	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.07	0.0186	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.14	0.0223	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.07	0.0096	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.07	0.0113	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.07	0.0074	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.07	0.0225	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.07	0.0182	
		SW8270 SIM	2-Methylnaphthalene	0.29	mg/Kg	0.041	0.041	
			Acenaphthene	ND	mg/Kg	0.041	0.028	
			Acenaphthylene	ND	mg/Kg	0.041	0.027	
			Anthracene	ND	mg/Kg	0.041	0.027	
			Benzo(a)anthracene	ND	mg/Kg	0.041	0.023	
			Benzo(a)pyrene	ND	mg/Kg	0.041	0.02	
			Benzo(b)fluoranthene	ND	mg/Kg	0.041	0.026	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.041	0.023	
			Benzo(k)fluoranthene	ND	mg/Kg	0.041	0.02	
			Chrysene	ND	mg/Kg	0.041	0.019	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.041	0.02	
			Dibenzofuran	ND	mg/Kg	0.041	0.041	
			Fluoranthene	ND	mg/Kg	0.041	0.021	
			Fluorene	0.045	mg/Kg	0.041	0.031	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.041	0.028	
			Naphthalene	0.45	mg/Kg	0.041	0.039	
			Phenanthrene	0.041	mg/Kg	0.041	0.026	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD141	Sediment	SW8270 SIM	Pyrene	ND	mg/Kg	0.041	0.023	
01NE28SD142	Sediment	AK102	DRO	280	mg/Kg	29	5.2	
	Depth 0	AK103	RRO	1100	mg/Kg	58	58	VJ
	to 0.5 feet bgs	DU	Total Organic Carbon (TOC)	13	PERCENT	0.005	0.005	
		E160.3	Total Solids	30.7	PERCENT	0.01	0.01	
		SW6010B	Chromium	22	mg/Kg	1	0.3	
			Lead	12	mg/Kg	5	2	
			Zinc	23	mg/Kg	1	0.7	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.078	0.0207	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.16	0.0248	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.078	0.0107	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.078	0.0126	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.078	0.0083	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.078	0.025	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.078	0.0203	
		SW8270 SIM	2-Methylnaphthalene	0.67	mg/Kg	0.014	0.014	
			Acenaphthene	0.022	mg/Kg	0.014	0.0093	
			Acenaphthylene	ND	mg/Kg	0.014	0.0091	
			Anthracene	ND	mg/Kg	0.014	0.0091	
			Benzo(a)anthracene	ND	mg/Kg	0.014	0.0076	
			Benzo(a)pyrene	ND	mg/Kg	0.014	0.0066	
			Benzo(b)fluoranthene	ND	mg/Kg	0.014	0.0089	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.014	0.0076	
			Benzo(k)fluoranthene	ND	mg/Kg	0.014	0.0068	
			Chrysene	ND	mg/Kg	0.014	0.0064	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.014	0.0066	
			Dibenzofuran	ND	mg/Kg	0.014	0.014	
			Fluoranthene	ND	mg/Kg	0.014	0.007	
			Fluorene	0.025	mg/Kg	0.014	0.01	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.014	0.0095	
			Naphthalene	0.38	mg/Kg	0.014	0.013	
			Phenanthrene	ND	mg/Kg	0.014	0.0089	
			Pyrene	ND	mg/Kg	0.014	0.0078	
01NE28SD143	Sediment	AK102	DRO	15000	mg/Kg	710	130	
	Depth 0	AK103	RRO	2300	mg/Kg	1400	1400	VJ
	to 0.5 feet bgs	DU	Total Organic Carbon (TOC)	11	PERCENT	0.005	0.005	
		E160.3	Total Solids	45.2	PERCENT	0.01	0.01	
		SW6010B	Chromium	40	mg/Kg	1	0.3	
			Lead	75	mg/Kg	4	1	
			Zinc	223	mg/Kg	1	0.6	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.095	0.0254	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.19	0.0304	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.095	0.0131	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.095	0.0155	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.095	0.0102	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.095	0.0307	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.095	0.0249	
		SW8270 SIM	2-Methylnaphthalene	110	mg/Kg	5.7	5.7	
			Acenaphthene	1.6	mg/Kg	0.14	0.096	
			Acenaphthylene	ND	mg/Kg	0.14	0.094	
			Anthracene	ND	mg/Kg	0.14	0.094	
			Benzo(a)anthracene	ND	mg/Kg	0.14	0.079	
			Benzo(a)pyrene	ND	mg/Kg	0.14	0.069	
			Benzo(b)fluoranthene	ND	mg/Kg	0.14	0.092	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.14	0.079	
			Benzo(k)fluoranthene	ND	mg/Kg	0.14	0.071	
			Chrysene	ND	mg/Kg	0.14	0.066	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.14	0.069	
			Dibenzofuran	0.73	mg/Kg	0.14	0.14	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD143	Sediment Depth 0 to 0.5 feet bgs	SW8270 SIM	Fluoranthene	0.14	mg/Kg	0.14	0.073	
			Fluorene	3.1	mg/Kg	0.14	0.11	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.14	0.099	
			Naphthalene	49	mg/Kg	5.7	5.4	
			Phenanthrene	1	mg/Kg	0.14	0.092	
			Pyrene	0.14	mg/Kg	0.14	0.081	
01NE28SD144	Subsurface Sediment Depth 1.5 to 2 feet bgs	AK102	DRO	6700	mg/Kg	230	42	
		AK103	RRO	2600	mg/Kg	470	470	VJ
		DU	Total Organic Carbon (TOC)	12	PERCENT	0.005	0.005	
		E160.3	Total Solids	34.9	PERCENT	0.01	0.01	
		SW6010B	Chromium	24	mg/Kg	1	0.4	
			Lead	27	mg/Kg	6	2	
			Zinc	91	mg/Kg	2	0.8	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.078	0.0208	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.16	0.0249	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.078	0.0107	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.078	0.0127	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.078	0.0083	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.078	0.0251	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.078	0.0204	
		SW8270 SIM	2-Methylnaphthalene	94	mg/Kg	4.5	4.5	
			Acenaphthene	1.6	mg/Kg	0.11	0.077	
			Acenaphthylene	ND	mg/Kg	0.11	0.075	
			Anthracene	ND	mg/Kg	0.11	0.075	
			Benzo(a)anthracene	ND	mg/Kg	0.11	0.063	
			Benzo(a)pyrene	ND	mg/Kg	0.11	0.055	
			Benzo(b)fluoranthene	ND	mg/Kg	0.11	0.073	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.11	0.063	
			Benzo(k)fluoranthene	ND	mg/Kg	0.11	0.056	
			Chrysene	ND	mg/Kg	0.11	0.053	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.11	0.055	
			Dibenzofuran	0.6	mg/Kg	0.11	0.11	
			Fluoranthene	ND	mg/Kg	0.11	0.058	
			Fluorene	2.2	mg/Kg	0.11	0.085	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.11	0.078	
			Naphthalene	34	mg/Kg	4.5	4.3	
			Phenanthrene	0.61	mg/Kg	0.11	0.073	
			Pyrene	ND	mg/Kg	0.11	0.065	
01NE28SD145	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	2500	mg/Kg	120	21	
		AK103	RRO	3000	mg/Kg	230	230	VJ
		DU	Total Organic Carbon (TOC)	12	PERCENT	0.005	0.005	
		E160.3	Total Solids	42.6	PERCENT	0.01	0.01	
		SW6010B	Chromium	24	mg/Kg	1	0.3	
			Lead	17	mg/Kg	5	1	
			Zinc	50	mg/Kg	1	0.7	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.077	0.0206	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.15	0.0247	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.077	0.0106	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.077	0.0126	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.077	0.0083	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.077	0.0249	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.077	0.0202	
		SW8270 SIM	2-Methylnaphthalene	32	mg/Kg	0.45	0.45	
			Acenaphthene	0.8	mg/Kg	0.23	0.15	
			Acenaphthylene	ND	mg/Kg	0.23	0.15	
			Anthracene	ND	mg/Kg	0.23	0.15	
			Benzo(a)anthracene	ND	mg/Kg	0.23	0.13	
			Benzo(a)pyrene	ND	mg/Kg	0.23	0.11	
			Benzo(b)fluoranthene	ND	mg/Kg	0.23	0.15	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD145	Sediment Depth 0 to 0.5 feet bgs	SW8270 SIM	Benzo(g,h,i)perylene	ND	mg/Kg	0.23	0.13	
			Benzo(k)fluoranthene	ND	mg/Kg	0.23	0.11	
			Chrysene	ND	mg/Kg	0.23	0.11	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.23	0.11	
			Dibenzofuran	0.17	mg/Kg	0.049	0.049	
			Fluoranthene	ND	mg/Kg	0.23	0.12	
			Fluorene	1.6	mg/Kg	0.23	0.17	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.23	0.16	
			Naphthalene	12	mg/Kg	0.23	0.21	
			Phenanthrene	1.3	mg/Kg	0.23	0.15	
			Pyrene	ND	mg/Kg	0.23	0.13	
01NE28SD146	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	66000	mg/Kg	710	130	
		AK103	RRO	1900	mg/Kg	1400	1400	VJ
		DU	Total Organic Carbon (TOC)	15	PERCENT	0.005	0.005	
		E160.3	Total Solids	37.8	PERCENT	0.01	0.01	
		SW6010B	Chromium	24	mg/Kg	1	0.4	
			Lead	13	mg/Kg	6	2	
			Zinc	34	mg/Kg	2	0.8	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.095	0.0254	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.19	0.0305	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.095	0.0131	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.095	0.0155	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.095	0.0102	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.095	0.0308	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.095	0.025	
		SW8270 SIM	2-Methylnaphthalene	500	mg/Kg	7	7	
			Acenaphthene	9.4	mg/Kg	0.7	0.48	
			Acenaphthylene	ND	mg/Kg	0.7	0.46	
			Anthracene	ND	mg/Kg	0.7	0.46	
			Benzo(a)anthracene	ND	mg/Kg	0.7	0.39	
			Benzo(a)pyrene	ND	mg/Kg	0.7	0.34	
			Benzo(b)fluoranthene	ND	mg/Kg	0.7	0.45	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.7	0.39	
			Benzo(k)fluoranthene	ND	mg/Kg	0.7	0.35	
			Chrysene	ND	mg/Kg	0.7	0.33	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.7	0.34	
			Dibenzofuran	4	mg/Kg	0.7	0.7	
			Fluoranthene	ND	mg/Kg	0.7	0.36	
			Fluorene	17	mg/Kg	0.7	0.53	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.7	0.49	
			Naphthalene	220	mg/Kg	7	6.7	
			Phenanthrene	6.9	mg/Kg	0.7	0.45	
			Pyrene	ND	mg/Kg	0.7	0.4	
01NE28SD147	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	11000	mg/Kg	500	55	
		AK103	RRO	1200	mg/Kg	1000	1000	VJ
		DU	Total Organic Carbon (TOC)	4.6	PERCENT	0.005	0.005	
		E160.3	Total Solids	70	PERCENT	0.01	0.01	
		SW6010B	Chromium	20	mg/Kg	0.8	0.2	
			Lead	24	mg/Kg	3	1	
			Zinc	68.7	mg/Kg	0.9	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.041	0.011	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.082	0.0131	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.041	0.0057	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.041	0.0067	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.041	0.0044	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.041	0.0133	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.041	0.0107	
		SW8270 SIM	2-Methylnaphthalene	5.2	mg/Kg	0.61	0.61	
			Acenaphthene	ND	mg/Kg	0.61	0.41	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD147	Sediment Depth 0 to 0.5 feet bgs	SW8270 SIM	Acenaphthylene	ND	mg/Kg	0.61	0.4	
			Anthracene	ND	mg/Kg	0.61	0.4	
			Benzo(a)anthracene	ND	mg/Kg	0.61	0.34	
			Benzo(a)pyrene	ND	mg/Kg	0.61	0.29	
			Benzo(b)fluoranthene	ND	mg/Kg	0.61	0.39	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.61	0.34	
			Benzo(k)fluoranthene	ND	mg/Kg	0.61	0.3	
			Chrysene	ND	mg/Kg	0.61	0.28	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.61	0.29	
			Dibenzofuran	ND	mg/Kg	0.61	0.61	
			Fluoranthene	ND	mg/Kg	0.61	0.31	
			Fluorene	ND	mg/Kg	0.61	0.46	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.61	0.42	
			Naphthalene	1.2	mg/Kg	0.61	0.58	
			Phenanthrene	ND	mg/Kg	0.61	0.39	
			Pyrene	ND	mg/Kg	0.61	0.35	
01NE28SD148	Subsurface Sediment	AK102	DRO	14000	mg/Kg	250	44	
		AK103	RRO	1300	mg/Kg	490	490	VJ
		DU	Total Organic Carbon (TOC)	15	PERCENT	0.005	0.005	
		E160.3	Total Solids	32.1	PERCENT	0.01	0.01	
		SW6010B	Chromium	17	mg/Kg	1	0.4	
			Lead	14	mg/Kg	6	2	
			Zinc	43	mg/Kg	2	0.8	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.082	0.0218	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.16	0.0262	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.082	0.0113	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.082	0.0133	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.082	0.0088	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.082	0.0264	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.082	0.0214	
		SW8270 SIM	2-Methylnaphthalene	59	mg/Kg	3.6	3.6	
			Acenaphthene	ND	mg/Kg	3.6	2.4	
			Acenaphthylene	ND	mg/Kg	0.12	0.079	
			Anthracene	ND	mg/Kg	0.12	0.079	
			Benzo(a)anthracene	ND	mg/Kg	0.12	0.066	
			Benzo(a)pyrene	ND	mg/Kg	0.12	0.057	
			Benzo(b)fluoranthene	ND	mg/Kg	0.12	0.077	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.12	0.066	
			Benzo(k)fluoranthene	ND	mg/Kg	0.12	0.059	
			Chrysene	ND	mg/Kg	0.12	0.055	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.12	0.057	
			Dibenzofuran	ND	mg/Kg	3.6	3.6	
			Fluoranthene	ND	mg/Kg	0.12	0.061	
			Fluorene	0.79	mg/Kg	0.12	0.089	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.12	0.082	
			Naphthalene	27	mg/Kg	3.6	3.4	
			Phenanthrene	0.33	mg/Kg	0.12	0.077	
			Pyrene	ND	mg/Kg	0.12	0.068	
01NE28SD149	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	19000	mg/Kg	500	59	
		AK103	RRO	1900	mg/Kg	1000	1000	VJ
		DU	Total Organic Carbon (TOC)	3.8	PERCENT	0.005	0.005	
		E160.3	Total Solids	75.5	PERCENT	0.01	0.01	
		SW6010B	Chromium	26.6	mg/Kg	0.8	0.2	
			Lead	82	mg/Kg	3	1	
			Zinc	266	mg/Kg	1	0.5	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.044	0.0116	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.087	0.0139	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.044	0.006	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.044	0.0071	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD149	Sediment Depth 0 to 0.5 feet bgs	SW8082	PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.044	0.0047	
			PCB-1254 (Aroclor 1254)	0.26	mg/Kg	0.044	0.0141	
			PCB-1260 (Aroclor 1260)	0.15	mg/Kg	0.044	0.0114	
		SW8270 SIM	2-Methylnaphthalene	18	mg/Kg	1.2	1.2	
			Acenaphthene	1.4	mg/Kg	1.2	0.84	
			Acenaphthylene	ND	mg/Kg	1.2	0.82	
			Anthracene	ND	mg/Kg	1.2	0.82	
			Benzo(a)anthracene	ND	mg/Kg	1.2	0.69	
			Benzo(a)pyrene	ND	mg/Kg	1.2	0.6	
			Benzo(b)fluoranthene	ND	mg/Kg	1.2	0.81	
			Benzo(g,h,i)perylene	ND	mg/Kg	1.2	0.69	
			Benzo(k)fluoranthene	ND	mg/Kg	1.2	0.62	
			Chrysene	ND	mg/Kg	1.2	0.58	
			Dibenzo(a,h)anthracene	ND	mg/Kg	1.2	0.6	
			Dibenzofuran	ND	mg/Kg	1.2	1.2	
			Fluoranthene	ND	mg/Kg	1.2	0.64	
			Fluorene	2.8	mg/Kg	1.2	0.94	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.2	0.86	
			Naphthalene	3.2	mg/Kg	1.2	1.2	
			Phenanthrene	1.5	mg/Kg	1.2	0.81	
			Pyrene	ND	mg/Kg	1.2	0.71	
01NE28SD150	Subsurface Sediment Depth 1.5 to 2 feet bgs	AK102	DRO	4600	mg/Kg	200	25	
		AK103	RRO	1300	mg/Kg	400	400	VJ
		DU	Total Organic Carbon (TOC)	3.2	PERCENT	0.005	0.005	
		E160.3	Total Solids	65.1	PERCENT	0.01	0.01	
		SW6010B	Chromium	20.9	mg/Kg	0.8	0.2	
			Lead	22	mg/Kg	3	1	
			Zinc	78.4	mg/Kg	0.9	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.047	0.0125	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.093	0.015	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.047	0.0065	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.047	0.0076	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.047	0.005	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.047	0.0151	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.047	0.0122	
		SW8270 SIM	2-Methylnaphthalene	1	mg/Kg	0.028	0.028	
			Acenaphthene	0.33	mg/Kg	0.028	0.019	
			Acenaphthylene	ND	mg/Kg	0.028	0.018	
			Anthracene	ND	mg/Kg	0.028	0.018	
			Benzo(a)anthracene	ND	mg/Kg	0.028	0.015	
			Benzo(a)pyrene	ND	mg/Kg	0.028	0.013	
			Benzo(b)fluoranthene	ND	mg/Kg	0.028	0.018	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.028	0.015	
			Benzo(k)fluoranthene	ND	mg/Kg	0.028	0.014	
			Chrysene	0.031	mg/Kg	0.028	0.013	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.028	0.013	
			Dibenzofuran	0.097	mg/Kg	0.028	0.028	
			Fluoranthene	0.031	mg/Kg	0.028	0.014	
			Fluorene	0.39	mg/Kg	0.028	0.021	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.028	0.019	
			Naphthalene	0.61	mg/Kg	0.028	0.026	
			Phenanthrene	0.25	mg/Kg	0.028	0.018	
			Pyrene	0.036	mg/Kg	0.028	0.016	
01NE28SD151	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	15000	mg/Kg	500	63	
		AK103	RRO	1000	mg/Kg	1000	1000	VJ
		DU	Total Organic Carbon (TOC)	4.3	PERCENT	0.005	0.005	
		E160.3	Total Solids	66.4	PERCENT	0.01	0.01	
		SW6010B	Chromium	19.4	mg/Kg	0.7	0.2	
			Lead	21	mg/Kg	3	0.9	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD151	Sediment Depth 0 to 0.5 feet bgs	SW6010B	Zinc	60.9	mg/Kg	0.9	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.047	0.0125	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.094	0.015	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.047	0.0065	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.047	0.0076	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.047	0.005	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.047	0.0151	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.047	0.0123	
		SW8270 SIM	2-Methylnaphthalene	29	mg/Kg	0.7	0.7	
			Acenaphthene	1.2	mg/Kg	0.7	0.48	
			Acenaphthylene	ND	mg/Kg	0.7	0.46	
			Anthracene	ND	mg/Kg	0.7	0.46	
			Benzo(a)anthracene	ND	mg/Kg	0.7	0.39	
			Benzo(a)pyrene	ND	mg/Kg	0.7	0.34	
			Benzo(b)fluoranthene	ND	mg/Kg	0.7	0.45	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.7	0.39	
			Benzo(k)fluoranthene	ND	mg/Kg	0.7	0.35	
			Chrysene	ND	mg/Kg	0.7	0.33	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.7	0.34	
			Dibenzofuran	ND	mg/Kg	0.7	0.7	
			Fluoranthene	ND	mg/Kg	0.7	0.36	
			Fluorene	2.4	mg/Kg	0.7	0.53	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.7	0.49	
			Naphthalene	5.6	mg/Kg	0.7	0.67	
			Phenanthrene	0.99	mg/Kg	0.7	0.45	
			Pyrene	ND	mg/Kg	0.7	0.4	
01NE28SD152	Subsurface Sediment Depth 1.5 to 2 feet bgs	AK102	DRO	5700	mg/Kg	200	29	
		AK103	RRO	1200	mg/Kg	400	400	VJ
		DU	Total Organic Carbon (TOC)	3.6	PERCENT	0.005	0.005	
		E160.3	Total Solids	67.9	PERCENT	0.01	0.01	
		SW6010B	Chromium	22.3	mg/Kg	0.8	0.2	
			Lead	22	mg/Kg	3	1	
			Zinc	68.7	mg/Kg	0.9	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.054	0.0143	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.11	0.0172	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.054	0.0074	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.054	0.0087	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.054	0.0057	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.054	0.0173	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.054	0.014	
		SW8270 SIM	2-Methylnaphthalene	15	mg/Kg	0.4	0.4	
			Acenaphthene	0.68	mg/Kg	0.4	0.27	
			Acenaphthylene	ND	mg/Kg	0.4	0.26	
			Anthracene	ND	mg/Kg	0.4	0.26	
			Benzo(a)anthracene	ND	mg/Kg	0.4	0.22	
			Benzo(a)pyrene	ND	mg/Kg	0.4	0.19	
			Benzo(b)fluoranthene	ND	mg/Kg	0.4	0.26	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.4	0.22	
			Benzo(k)fluoranthene	ND	mg/Kg	0.4	0.2	
			Chrysene	ND	mg/Kg	0.4	0.19	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.4	0.19	
			Dibenzofuran	ND	mg/Kg	0.4	0.4	
			Fluoranthene	ND	mg/Kg	0.4	0.2	
			Fluorene	1.2	mg/Kg	0.4	0.3	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.4	0.28	
			Naphthalene	3.4	mg/Kg	0.4	0.38	
			Phenanthrene	0.48	mg/Kg	0.4	0.26	
			Pyrene	ND	mg/Kg	0.4	0.23	
01NE28SD153	Sediment	AK102	DRO	19000	mg/Kg	1000	130	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD153	Sediment Depth 0 to 0.5 feet bgs	AK103	RRO	2400	mg/Kg	2000	2000	VJ
		DU	Total Organic Carbon (TOC)	14	PERCENT	0.005	0.005	
		E160.3	Total Solids	47.1	PERCENT	0.01	0.01	
		SW6010B	Chromium	13.2	mg/Kg	0.7	0.2	
			Lead	32	mg/Kg	3	1	
			Zinc	65.5	mg/Kg	0.9	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.047	0.0125	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.093	0.015	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.047	0.0065	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.047	0.0076	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.047	0.005	
			PCB-1254 (Aroclor 1254)	0.15	mg/Kg	0.047	0.0151	
			PCB-1260 (Aroclor 1260)	0.094	mg/Kg	0.047	0.0122	
		SW8270 SIM	2-Methylnaphthalene	8.9	mg/Kg	0.67	0.67	
			Acenaphthene	1.3	mg/Kg	0.67	0.45	
			Acenaphthylene	ND	mg/Kg	0.67	0.44	
			Anthracene	ND	mg/Kg	0.67	0.44	
			Benzo(a)anthracene	ND	mg/Kg	0.67	0.37	
			Benzo(a)pyrene	ND	mg/Kg	0.67	0.32	
			Benzo(b)fluoranthene	ND	mg/Kg	0.67	0.43	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.67	0.37	
			Benzo(k)fluoranthene	ND	mg/Kg	0.67	0.33	
			Chrysene	ND	mg/Kg	0.67	0.31	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.67	0.32	
			Dibenzofuran	ND	mg/Kg	0.67	0.67	
			Fluoranthene	ND	mg/Kg	0.67	0.34	
			Fluorene	1.6	mg/Kg	0.67	0.5	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.67	0.46	
			Naphthalene	1.6	mg/Kg	0.67	0.63	
			Phenanthrene	0.67	mg/Kg	0.67	0.43	
			Pyrene	ND	mg/Kg	0.67	0.38	
01NE28SD154	Subsurface Sediment Depth 1.5 to 2 feet bgs	AK102	DRO	14000	mg/Kg	500	68	
		AK103	RRO	2000	mg/Kg	1000	1000	VJ
		DU	Total Organic Carbon (TOC)	12	PERCENT	0.005	0.005	
		E160.3	Total Solids	47.9	PERCENT	0.01	0.01	
		SW6010B	Chromium	17.1	mg/Kg	0.7	0.2	
			Lead	30	mg/Kg	3	0.9	
			Zinc	65.1	mg/Kg	0.9	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.05	0.0134	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.1	0.016	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.05	0.0069	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.05	0.0082	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.05	0.0054	
			PCB-1254 (Aroclor 1254)	0.17	mg/Kg	0.05	0.0162	
			PCB-1260 (Aroclor 1260)	0.082	mg/Kg	0.05	0.0131	
		SW8270 SIM	2-Methylnaphthalene	18	mg/Kg	1.4	1.4	
			Acenaphthene	ND	mg/Kg	1.4	0.94	
			Acenaphthylene	ND	mg/Kg	0.14	0.092	
			Anthracene	ND	mg/Kg	0.14	0.092	
			Benzo(a)anthracene	ND	mg/Kg	0.14	0.077	
			Benzo(a)pyrene	ND	mg/Kg	0.14	0.067	
			Benzo(b)fluoranthene	ND	mg/Kg	0.14	0.09	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.14	0.077	
			Benzo(k)fluoranthene	ND	mg/Kg	0.14	0.069	
			Chrysene	ND	mg/Kg	0.14	0.065	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.14	0.067	
			Dibenzofuran	0.39	mg/Kg	0.14	0.14	
			Fluoranthene	0.29	mg/Kg	0.14	0.071	
			Fluorene	1.8	mg/Kg	1.4	1	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD154	Sediment Depth 0 to 0.5 feet bgs	SW8270 SIM	Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.14	0.096	
			Naphthalene	2.8	mg/Kg	1.4	1.3	
			Phenanthrene	1.4	mg/Kg	0.14	0.09	
			Pyrene	0.18	mg/Kg	0.14	0.079	
01NE28SD155	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	88000	mg/Kg	4600	820	
		AK103	RRO	10000	mg/Kg	9200	9200	VJ
		DU	Total Organic Carbon (TOC)	10	PERCENT	0.005	0.005	
		E160.3	Total Solids	50.8	PERCENT	0.01	0.01	
		SW6010B	Chromium	649	mg/Kg	0.9	0.2	
			Lead	4590	mg/Kg	3	1	
			Zinc	4810	mg/Kg	1	0.5	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.061	0.0163	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.12	0.0195	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.061	0.0084	
			PCB-1242 (Aroclor 1242)	0.12	mg/Kg	0.061	0.01	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.061	0.0065	
			PCB-1254 (Aroclor 1254)	1.7	mg/Kg	0.061	0.0197	
			PCB-1260 (Aroclor 1260)	0.7	mg/Kg	0.061	0.016	
		SW8270 SIM	2-Methylnaphthalene	440	mg/Kg	9.1	9.1	
			Acenaphthene	14	mg/Kg	0.91	0.61	
			Acenaphthylene	ND	mg/Kg	0.91	0.6	
			Anthracene	1.6	mg/Kg	0.91	0.6	
			Benzo(a)anthracene	1.8	mg/Kg	0.91	0.5	
			Benzo(a)pyrene	1.4	mg/Kg	0.91	0.44	
			Benzo(b)fluoranthene	1.6	mg/Kg	0.91	0.59	
			Benzo(g,h,i)perylene	0.91	mg/Kg	0.91	0.5	
			Benzo(k)fluoranthene	1.6	mg/Kg	0.91	0.45	
			Chrysene	2.6	mg/Kg	0.91	0.42	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.91	0.44	
			Dibenzofuran	5.3	mg/Kg	0.91	0.91	
			Fluoranthene	4.9	mg/Kg	0.91	0.46	
			Fluorene	20	mg/Kg	0.91	0.68	
			Indeno(1,2,3-cd)pyrene	1.2	mg/Kg	0.91	0.63	
			Naphthalene	160	mg/Kg	9.1	8.6	
			Phenanthrene	17	mg/Kg	0.91	0.59	
			Pyrene	3.6	mg/Kg	0.91	0.52	
01NE28SD156	Subsurface Sediment Depth 1.5 to 2 feet bgs	AK102	DRO	85000	mg/Kg	4600	830	
		AK103	RRO	14000	mg/Kg	9200	9200	VJ
		DU	Total Organic Carbon (TOC)	7.3	PERCENT	0.005	0.005	
		E160.3	Total Solids	58.6	PERCENT	0.01	0.01	
		SW6010B	Chromium	19.9	mg/Kg	0.7	0.2	
			Lead	113	mg/Kg	3	0.9	
			Zinc	511	mg/Kg	0.8	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.061	0.0164	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.12	0.0196	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.061	0.0085	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.061	0.01	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.061	0.0066	
			PCB-1254 (Aroclor 1254)	0.52	mg/Kg	0.061	0.0198	
			PCB-1260 (Aroclor 1260)	0.23	mg/Kg	0.061	0.0161	
		SW8270 SIM	2-Methylnaphthalene	370	mg/Kg	9.3	9.3	
			Acenaphthene	8.3	mg/Kg	0.93	0.62	
			Acenaphthylene	ND	mg/Kg	0.93	0.61	
			Anthracene	1.8	mg/Kg	0.93	0.61	
			Benzo(a)anthracene	1.9	mg/Kg	0.93	0.51	
			Benzo(a)pyrene	1.4	mg/Kg	0.93	0.44	
			Benzo(b)fluoranthene	1.4	mg/Kg	0.93	0.6	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.93	0.51	
			Benzo(k)fluoranthene	1.9	mg/Kg	0.93	0.46	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD156	Subsurface Sediment Depth 1.5 to 2 feet bgs	SW8270 SIM	Chrysene	2.6	mg/Kg	0.93	0.43	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.93	0.44	
			Dibenzofuran	5.6	mg/Kg	0.93	0.93	
			Fluoranthene	5.1	mg/Kg	0.93	0.47	
			Fluorene	18	mg/Kg	0.93	0.69	
			Indeno(1,2,3-cd)pyrene	1.2	mg/Kg	0.93	0.64	
			Naphthalene	130	mg/Kg	9.3	8.8	
			Phenanthrene	16	mg/Kg	0.93	0.6	
			Pyrene	3.6	mg/Kg	0.93	0.53	
01NE28SD157	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	15000	mg/Kg	1000	130	
		AK103	RRO	ND	mg/Kg	2000	2000	VQQ
		DU	Total Organic Carbon (TOC)	4	PERCENT	0.005	0.005	
		E160.3	Total Solids	65.9	PERCENT	0.01	0.01	
		SW6010B	Chromium	25.5	mg/Kg	0.7	0.2	
			Lead	20	mg/Kg	3	1	
			Zinc	64.2	mg/Kg	0.9	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.047	0.0126	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.094	0.0151	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.047	0.0065	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.047	0.0077	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.047	0.005	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.047	0.0152	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.047	0.0123	
		SW8270 SIM	2-Methylnaphthalene	3	mg/Kg	0.068	0.068	
			Acenaphthene	ND	mg/Kg	0.068	0.046	
			Acenaphthylene	ND	mg/Kg	0.068	0.045	
			Anthracene	ND	mg/Kg	0.068	0.045	
			Benzo(a)anthracene	ND	mg/Kg	0.068	0.038	
			Benzo(a)pyrene	ND	mg/Kg	0.068	0.033	
			Benzo(b)fluoranthene	ND	mg/Kg	0.068	0.044	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.068	0.038	
			Benzo(k)fluoranthene	ND	mg/Kg	0.068	0.034	
			Chrysene	ND	mg/Kg	0.068	0.032	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.068	0.033	
			Dibenzofuran	ND	mg/Kg	0.068	0.068	
			Fluoranthene	ND	mg/Kg	0.068	0.035	
			Fluorene	0.2	mg/Kg	0.068	0.051	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.068	0.047	
			Naphthalene	1	mg/Kg	0.068	0.065	
			Phenanthrene	0.075	mg/Kg	0.068	0.044	
			Pyrene	ND	mg/Kg	0.068	0.039	
01NE28SD158	Subsurface Sediment Depth 1.5 to 2 feet bgs	AK102	DRO	3800	mg/Kg	200	25	
		AK103	RRO	1300	mg/Kg	400	400	VJ
		DU	Total Organic Carbon (TOC)	12	PERCENT	0.005	0.005	
		E160.3	Total Solids	41	PERCENT	0.01	0.01	
		SW6010B	Chromium	8	mg/Kg	1	0.3	
			Lead	12	mg/Kg	5	2	
			Zinc	17	mg/Kg	1	0.7	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.046	0.0122	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.091	0.0146	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.046	0.0063	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.046	0.0074	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.046	0.0049	
			PCB-1254 (Aroclor 1254)	0.048	mg/Kg	0.046	0.0147	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.046	0.012	
		SW8270 SIM	2-Methylnaphthalene	38	mg/Kg	1.7	1.7	
			Acenaphthene	ND	mg/Kg	1.7	1.1	
			Acenaphthylene	ND	mg/Kg	0.034	0.022	
			Anthracene	ND	mg/Kg	0.034	0.022	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD158	Subsurface Sediment Depth 1.5 to 2 feet bgs	SW8270 SIM	Benzo(a)anthracene	ND	mg/Kg	0.034	0.019	
			Benzo(a)pyrene	ND	mg/Kg	0.034	0.016	
			Benzo(b)fluoranthene	ND	mg/Kg	0.034	0.022	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.034	0.019	
			Benzo(k)fluoranthene	ND	mg/Kg	0.034	0.017	
			Chrysene	ND	mg/Kg	0.034	0.016	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.034	0.016	
			Dibenzofuran	0.29	mg/Kg	0.034	0.034	
			Fluoranthene	ND	mg/Kg	0.034	0.017	
			Fluorene	0.81	mg/Kg	0.034	0.026	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.034	0.023	
			Naphthalene	18	mg/Kg	1.7	1.6	
			Phenanthrene	0.4	mg/Kg	0.034	0.022	
			Pyrene	ND	mg/Kg	0.034	0.019	
01NE28SD159	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	58000	mg/Kg	5000	660	
		AK103	RRO	ND	mg/Kg	10000	10000	VQQ
		DU	Total Organic Carbon (TOC)	5.3	PERCENT	0.005	0.005	
		E160.3	Total Solids	63.6	PERCENT	0.01	0.01	
		SW6010B	Chromium	28.2	mg/Kg	0.7	0.2	
			Lead	46	mg/Kg	3	1	
			Zinc	80.4	mg/Kg	0.9	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.049	0.013	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.098	0.0156	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.049	0.0067	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.049	0.008	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.049	0.0052	
			PCB-1254 (Aroclor 1254)	0.061	mg/Kg	0.049	0.0158	
			PCB-1260 (Aroclor 1260)	0.14	mg/Kg	0.049	0.0128	
		SW8270 SIM	2-Methylnaphthalene	3	mg/Kg	1.4	1.4	
			Acenaphthene	2.1	mg/Kg	1.4	0.95	
			Acenaphthylene	ND	mg/Kg	1.4	0.93	
			Anthracene	ND	mg/Kg	1.4	0.93	
			Benzo(a)anthracene	ND	mg/Kg	1.4	0.78	
			Benzo(a)pyrene	ND	mg/Kg	1.4	0.68	
			Benzo(b)fluoranthene	ND	mg/Kg	1.4	0.91	
			Benzo(g,h,i)perylene	ND	mg/Kg	1.4	0.78	
			Benzo(k)fluoranthene	ND	mg/Kg	1.4	0.7	
			Chrysene	ND	mg/Kg	1.4	0.65	
			Dibenzo(a,h)anthracene	ND	mg/Kg	1.4	0.68	
			Dibenzofuran	ND	mg/Kg	1.4	1.4	
			Fluoranthene	ND	mg/Kg	1.4	0.72	
			Fluorene	ND	mg/Kg	1.4	1.1	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.4	0.97	
			Naphthalene	7.3	mg/Kg	1.4	1.3	
			Phenanthrene	ND	mg/Kg	1.4	0.91	
			Pyrene	ND	mg/Kg	1.4	0.8	
01NE28SD160	Subsurface Sediment Depth 1.5 to 2 feet bgs	AK102	DRO	71000	mg/Kg	5000	660	
		AK103	RRO	2000	mg/Kg	100	100	VJ
		DU	Total Organic Carbon (TOC)	4.5	PERCENT	0.005	0.005	
		E160.3	Total Solids	71.2	PERCENT	0.01	0.01	
		SW6010B	Chromium	24.5	mg/Kg	0.7	0.2	
			Lead	28	mg/Kg	3	1	
			Zinc	71.7	mg/Kg	0.9	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.049	0.0132	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.099	0.0158	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.049	0.0068	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.049	0.008	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.049	0.0053	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.049	0.0159	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD160	Subsurface Sediment Depth 1.5 to 2 feet bgs	SW8082	PCB-1260 (Aroclor 1260)	0.063	mg/Kg	0.049	0.0129	
		SW8270 SIM	2-Methylnaphthalene	3.4	mg/Kg	1.4	1.4	
			Acenaphthene	3.7	mg/Kg	1.4	0.96	
			Acenaphthylene	ND	mg/Kg	1.4	0.94	
			Anthracene	ND	mg/Kg	1.4	0.94	
			Benzo(a)anthracene	ND	mg/Kg	1.4	0.79	
			Benzo(a)pyrene	ND	mg/Kg	1.4	0.69	
			Benzo(b)fluoranthene	ND	mg/Kg	1.4	0.92	
			Benzo(g,h,i)perylene	ND	mg/Kg	1.4	0.79	
			Benzo(k)fluoranthene	ND	mg/Kg	1.4	0.71	
			Chrysene	ND	mg/Kg	1.4	0.66	
			Dibenzo(a,h)anthracene	ND	mg/Kg	1.4	0.69	
			Dibenzofuran	ND	mg/Kg	1.4	1.4	
			Fluoranthene	ND	mg/Kg	1.4	0.73	
			Fluorene	2.3	mg/Kg	1.4	1.1	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.4	0.99	
			Naphthalene	16	mg/Kg	1.4	1.4	
			Phenanthrene	ND	mg/Kg	1.4	0.92	
			Pyrene	ND	mg/Kg	1.4	0.81	
01NE28SD161	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	75000	mg/Kg	5000	700	
		AK103	RRO	4000	mg/Kg	200	200	VJ
		DU	Total Organic Carbon (TOC)	3.9	PERCENT	0.005	0.005	
		E160.3	Total Solids	68.8	PERCENT	0.01	0.01	
		SW6010B	Chromium	26.8	mg/Kg	0.8	0.2	
			Lead	36	mg/Kg	3	1	
			Zinc	148	mg/Kg	1	0.5	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.052	0.0139	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.1	0.0167	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.052	0.0072	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.052	0.0085	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.052	0.0056	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.052	0.0168	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.052	0.0136	
		SW8270 SIM	2-Methylnaphthalene	260	mg/Kg	16	16	
			Acenaphthene	12	mg/Kg	1.6	1.1	
			Acenaphthylene	ND	mg/Kg	1.6	1	
			Anthracene	ND	mg/Kg	1.6	1	
			Benzo(a)anthracene	ND	mg/Kg	1.6	0.87	
			Benzo(a)pyrene	ND	mg/Kg	1.6	0.75	
			Benzo(b)fluoranthene	ND	mg/Kg	1.6	1	
			Benzo(g,h,i)perylene	ND	mg/Kg	1.6	0.87	
			Benzo(k)fluoranthene	ND	mg/Kg	1.6	0.77	
			Chrysene	ND	mg/Kg	1.6	0.73	
			Dibenzo(a,h)anthracene	ND	mg/Kg	1.6	0.75	
			Dibenzofuran	3.9	mg/Kg	1.6	1.6	
			Fluoranthene	ND	mg/Kg	1.6	0.8	
			Fluorene	18	mg/Kg	1.6	1.2	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.6	1.1	
			Naphthalene	54	mg/Kg	1.6	1.5	
			Phenanthrene	6.2	mg/Kg	1.6	1	
			Pyrene	ND	mg/Kg	1.6	0.89	
01NE28SD163	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	56000	mg/Kg	5000	630	
		AK103	RRO	4000	mg/Kg	200	200	VJ
		DU	Total Organic Carbon (TOC)	4.1	PERCENT	0.005	0.005	
		E160.3	Total Solids	68.3	PERCENT	0.01	0.01	
		SW6010B	Chromium	21.4	mg/Kg	0.7	0.2	
			Lead	28	mg/Kg	3	0.9	
			Zinc	155	mg/Kg	0.9	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.047	0.0125	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD163	Sediment Depth 0 to 0.5 feet bgs	SW8082	PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.094	0.015	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.047	0.0065	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.047	0.0077	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.047	0.005	
			PCB-1254 (Aroclor 1254)	0.073	mg/Kg	0.047	0.0152	
			PCB-1260 (Aroclor 1260)	0.18	mg/Kg	0.047	0.0123	
		SW8270 SIM	2-Methylnaphthalene	2.7	mg/Kg	1.4	1.4	
			Acenaphthene	2.3	mg/Kg	1.4	0.91	
			Acenaphthylene	ND	mg/Kg	1.4	0.89	
			Anthracene	ND	mg/Kg	1.4	0.89	
			Benzo(a)anthracene	ND	mg/Kg	1.4	0.75	
			Benzo(a)pyrene	ND	mg/Kg	1.4	0.65	
			Benzo(b)fluoranthene	ND	mg/Kg	1.4	0.87	
			Benzo(g,h,i)perylene	ND	mg/Kg	1.4	0.75	
			Benzo(k)fluoranthene	ND	mg/Kg	1.4	0.67	
			Chrysene	ND	mg/Kg	1.4	0.63	
			Dibenzo(a,h)anthracene	ND	mg/Kg	1.4	0.65	
			Dibenzofuran	ND	mg/Kg	1.4	1.4	
			Fluoranthene	ND	mg/Kg	1.4	0.69	
			Fluorene	2.6	mg/Kg	1.4	1	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.4	0.93	
			Naphthalene	9.5	mg/Kg	1.4	1.3	
			Phenanthrene	ND	mg/Kg	1.4	0.87	
			Pyrene	ND	mg/Kg	1.4	0.77	
01NE28SD164	Subsurface Sediment Depth 1.5 to 2 feet bgs	AK102	DRO	59000	mg/Kg	5000	630	
		AK103	RRO	1600	mg/Kg	100	100	VJ
		DU	Total Organic Carbon (TOC)	4	PERCENT	0.005	0.005	
		E160.3	Total Solids	71.4	PERCENT	0.01	0.01	
		SW6010B	Chromium	21.4	mg/Kg	0.7	0.2	
			Lead	22	mg/Kg	3	0.9	
			Zinc	53.2	mg/Kg	0.8	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.047	0.0126	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.094	0.0151	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.047	0.0065	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.047	0.0077	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.047	0.005	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.047	0.0152	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.047	0.0123	
		SW8270 SIM	2-Methylnaphthalene	31	mg/Kg	1.4	1.4	
			Acenaphthene	4.6	mg/Kg	1.4	0.91	
			Acenaphthylene	ND	mg/Kg	1.4	0.89	
			Anthracene	ND	mg/Kg	1.4	0.89	
			Benzo(a)anthracene	ND	mg/Kg	1.4	0.75	
			Benzo(a)pyrene	ND	mg/Kg	1.4	0.65	
			Benzo(b)fluoranthene	ND	mg/Kg	1.4	0.87	
			Benzo(g,h,i)perylene	ND	mg/Kg	1.4	0.75	
			Benzo(k)fluoranthene	ND	mg/Kg	1.4	0.67	
			Chrysene	ND	mg/Kg	1.4	0.63	
			Dibenzo(a,h)anthracene	ND	mg/Kg	1.4	0.65	
			Dibenzofuran	ND	mg/Kg	1.4	1.4	
			Fluoranthene	ND	mg/Kg	1.4	0.69	
			Fluorene	6.9	mg/Kg	1.4	1	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.4	0.93	
			Naphthalene	14	mg/Kg	1.4	1.3	
			Phenanthrene	ND	mg/Kg	1.4	0.87	
			Pyrene	ND	mg/Kg	1.4	0.77	
01NE28SD165	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	120	mg/Kg	25	3.4	
		AK103	RRO	620	mg/Kg	50	50	VJ
		DU	Total Organic Carbon (TOC)	2.6	PERCENT	0.005	0.005	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD165	Sediment Depth 0 to 0.5 feet bgs	E160.3	Total Solids	61.4	PERCENT	0.01	0.01	
		SW6010B	Chromium	27.4	mg/Kg	0.8	0.2	
			Lead	61	mg/Kg	3	1	
			Zinc	71.8	mg/Kg	1	0.5	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.05	0.0134	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.1	0.0161	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.05	0.0069	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.05	0.0082	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.05	0.0054	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.05	0.0163	
			PCB-1260 (Aroclor 1260)	0.151	mg/Kg	0.05	0.0132	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.0088	0.0088	
			Acenaphthene	ND	mg/Kg	0.0088	0.006	
			Acenaphthylene	ND	mg/Kg	0.0088	0.0058	
			Anthracene	ND	mg/Kg	0.0088	0.0058	
			Benzo(a)anthracene	ND	mg/Kg	0.0088	0.0049	
			Benzo(a)pyrene	ND	mg/Kg	0.0088	0.0042	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0088	0.0057	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0088	0.0049	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0088	0.0044	
			Chrysene	ND	mg/Kg	0.0088	0.0041	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0088	0.0042	
			Dibenzofuran	ND	mg/Kg	0.0088	0.0088	
			Fluoranthene	ND	mg/Kg	0.0088	0.0045	
			Fluorene	ND	mg/Kg	0.0088	0.0066	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0088	0.0061	
			Naphthalene	ND	mg/Kg	0.0088	0.0083	
			Phenanthrene	ND	mg/Kg	0.0088	0.0057	
			Pyrene	ND	mg/Kg	0.0088	0.005	
01NE28SD166	Subsurface Sediment Depth 1.5 to 2 feet bgs	AK102	DRO	65	mg/Kg	10	1.2	
		AK103	RRO	240	mg/Kg	20	20	VJ
		DU	Total Organic Carbon (TOC)	1.3	PERCENT	0.005	0.005	
		E160.3	Total Solids	81	PERCENT	0.01	0.01	
		SW6010B	Chromium	30.1	mg/Kg	0.6	0.2	
			Lead	18	mg/Kg	3	0.8	
			Zinc	52.2	mg/Kg	0.8	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.044	0.0117	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.087	0.014	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.044	0.006	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.044	0.0071	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.044	0.0047	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.044	0.0141	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.044	0.0114	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.0077	0.0077	
			Acenaphthene	ND	mg/Kg	0.0077	0.0052	
			Acenaphthylene	ND	mg/Kg	0.0077	0.0051	
			Anthracene	ND	mg/Kg	0.0077	0.0051	
			Benzo(a)anthracene	ND	mg/Kg	0.0077	0.0042	
			Benzo(a)pyrene	ND	mg/Kg	0.0077	0.0037	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0077	0.0049	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0077	0.0042	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0077	0.0038	
			Chrysene	ND	mg/Kg	0.0077	0.0036	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0077	0.0037	
			Dibenzofuran	ND	mg/Kg	0.0077	0.0077	
			Fluoranthene	ND	mg/Kg	0.0077	0.0039	
			Fluorene	ND	mg/Kg	0.0077	0.0057	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0077	0.0053	
			Naphthalene	ND	mg/Kg	0.0077	0.0072	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD166	Sediment	SW8270 SIM	Phenanthrene	ND	mg/Kg	0.0077	0.0049	
			Pyrene	ND	mg/Kg	0.0077	0.0044	
01NE28SD167	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	17000	mg/Kg	1000	110	
		AK103	RRO	10000	mg/Kg	2000	2000	VJ
		DU	Total Organic Carbon (TOC)	3	PERCENT	0.005	0.005	
		E160.3	Total Solids	83.4	PERCENT	0.01	0.01	
		SW6010B	Chromium	57.1	mg/Kg	0.6	0.2	
			Lead	219	mg/Kg	3	0.8	
			Zinc	186	mg/Kg	0.8	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.17	0.0453	VQQ
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.34	0.0543	VQQ
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.17	0.0234	VQQ
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.17	0.0277	VQQ
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.17	0.0182	VQQ
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.17	0.0548	VQQ
			PCB-1260 (Aroclor 1260)	5.43	mg/Kg	0.17	0.0445	VLB
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	1.2	1.2	
			Acenaphthene	ND	mg/Kg	1.2	0.82	
			Acenaphthylene	ND	mg/Kg	1.2	0.8	
			Anthracene	ND	mg/Kg	1.2	0.8	
			Benzo(a)anthracene	ND	mg/Kg	1.2	0.68	
			Benzo(a)pyrene	ND	mg/Kg	1.2	0.59	
			Benzo(b)fluoranthene	ND	mg/Kg	1.2	0.79	
			Benzo(g,h,i)perylene	ND	mg/Kg	1.2	0.68	
			Benzo(k)fluoranthene	ND	mg/Kg	1.2	0.6	
			Chrysene	ND	mg/Kg	1.2	0.57	
			Dibenzo(a,h)anthracene	ND	mg/Kg	1.2	0.59	
			Dibenzofuran	ND	mg/Kg	1.2	1.2	
			Fluoranthene	ND	mg/Kg	1.2	0.62	
			Fluorene	ND	mg/Kg	1.2	0.91	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.2	0.84	
			Naphthalene	ND	mg/Kg	1.2	1.2	
			Phenanthrene	ND	mg/Kg	1.2	0.79	
			Pyrene	ND	mg/Kg	1.2	0.7	
01NE28SD168	Subsurface Sediment Depth 1.5 to 2 feet bgs	AK102	DRO	8200	mg/Kg	500	54	
		AK103	RRO	3000	mg/Kg	1000	1000	VJ
		DU	Total Organic Carbon (TOC)	3.1	PERCENT	0.005	0.005	
		E160.3	Total Solids	84.7	PERCENT	0.01	0.01	
		SW6010B	Chromium	24.4	mg/Kg	0.6	0.2	
			Lead	57	mg/Kg	2	0.8	
			Zinc	113	mg/Kg	0.7	0.3	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.04	0.0106	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.079	0.0126	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.04	0.0055	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.04	0.0064	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.04	0.0042	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.04	0.0128	
			PCB-1260 (Aroclor 1260)	0.68	mg/Kg	0.04	0.0104	
		SW8270 SIM	2-Methylnaphthalene	13	mg/Kg	1.2	1.2	
			Acenaphthene	ND	mg/Kg	1.2	0.8	
			Acenaphthylene	ND	mg/Kg	1.2	0.79	
			Anthracene	ND	mg/Kg	1.2	0.79	
			Benzo(a)anthracene	ND	mg/Kg	1.2	0.66	
			Benzo(a)pyrene	ND	mg/Kg	1.2	0.57	
			Benzo(b)fluoranthene	ND	mg/Kg	1.2	0.77	
			Benzo(g,h,i)perylene	ND	mg/Kg	1.2	0.66	
			Benzo(k)fluoranthene	ND	mg/Kg	1.2	0.59	
			Chrysene	ND	mg/Kg	1.2	0.55	
			Dibenzo(a,h)anthracene	ND	mg/Kg	1.2	0.57	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD168	Subsurface Sediment Depth 1.5 to 2 feet bgs	SW8270 SIM	Dibenzofuran	ND	mg/Kg	1.2	1.2	
			Fluoranthene	ND	mg/Kg	1.2	0.61	
			Fluorene	ND	mg/Kg	1.2	0.89	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.2	0.82	
			Naphthalene	4.9	mg/Kg	1.2	1.1	
			Phenanthrene	ND	mg/Kg	1.2	0.77	
			Pyrene	ND	mg/Kg	1.2	0.68	
01NE28SD169	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	54000	mg/Kg	2500	300	
		AK103	RRO	6300	mg/Kg	5000	5000	VJ
		DU	Total Organic Carbon (TOC)	11	PERCENT	0.005	0.005	
		E160.3	Total Solids	57.9	PERCENT	0.01	0.01	
		SW6010B	Chromium	27.1	mg/Kg	0.7	0.2	
			Lead	48	mg/Kg	3	1	
			Zinc	94.9	mg/Kg	0.9	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.044	0.0119	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.089	0.0142	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.044	0.0061	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.044	0.0073	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.044	0.0048	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.153	0.0144	
			PCB-1260 (Aroclor 1260)	0.435	mg/Kg	0.044	0.0117	
		SW8270 SIM	2-Methylnaphthalene	38	mg/Kg	1.3	1.3	VHB
			Acenaphthene	7.9	mg/Kg	1.3	0.89	VHB
			Acenaphthylene	ND	mg/Kg	1.3	0.87	
			Anthracene	ND	mg/Kg	1.3	0.87	
			Benzo(a)anthracene	ND	mg/Kg	1.3	0.73	
			Benzo(a)pyrene	ND	mg/Kg	1.3	0.63	
			Benzo(b)fluoranthene	ND	mg/Kg	1.3	0.85	
			Benzo(g,h,i)perylene	ND	mg/Kg	1.3	0.73	
			Benzo(k)fluoranthene	ND	mg/Kg	1.3	0.65	
			Chrysene	ND	mg/Kg	1.3	0.61	
			Dibenzo(a,h)anthracene	ND	mg/Kg	1.3	0.63	
			Dibenzofuran	1.4	mg/Kg	1.3	1.3	VHB
			Fluoranthene	ND	mg/Kg	1.3	0.67	
			Fluorene	8.8	mg/Kg	1.3	0.99	VHB
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.3	0.91	
			Naphthalene	9.9	mg/Kg	1.3	1.2	VHB
			Phenanthrene	3.7	mg/Kg	1.3	0.85	VHB
			Pyrene	ND	mg/Kg	1.3	0.75	
01NE28SD170	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	60000	mg/Kg	2500	330	
		AK103	RRO	6900	mg/Kg	5000	5000	VJ
		DU	Total Organic Carbon (TOC)	9.1	PERCENT	0.005	0.005	
		E160.3	Total Solids	71.4	PERCENT	0.01	0.01	
		SW6010B	Chromium	24.9	mg/Kg	0.7	0.2	
			Lead	36	mg/Kg	3	0.9	
			Zinc	81.4	mg/Kg	0.8	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.049	0.0131	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.098	0.0157	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.049	0.0068	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.049	0.008	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.049	0.0053	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.188	0.0159	
			PCB-1260 (Aroclor 1260)	0.541	mg/Kg	0.049	0.0129	
		SW8270 SIM	2-Methylnaphthalene	51	mg/Kg	1.4	1.4	
			Acenaphthene	12	mg/Kg	1.4	0.98	
			Acenaphthylene	ND	mg/Kg	1.4	0.96	
			Anthracene	ND	mg/Kg	1.4	0.96	
			Benzo(a)anthracene	ND	mg/Kg	1.4	0.8	
			Benzo(a)pyrene	ND	mg/Kg	1.4	0.7	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD170	Sediment Depth 0 to 0.5 feet bgs	SW8270 SIM	Benzo(b)fluoranthene	ND	mg/Kg	1.4	0.93	
			Benzo(g,h,i)perylene	ND	mg/Kg	1.4	0.8	
			Benzo(k)fluoranthene	ND	mg/Kg	1.4	0.72	
			Chrysene	ND	mg/Kg	1.4	0.67	
			Dibenzo(a,h)anthracene	ND	mg/Kg	1.4	0.7	
			Dibenzofuran	2.3	mg/Kg	1.4	1.4	
			Fluoranthene	ND	mg/Kg	1.4	0.74	
			Fluorene	16	mg/Kg	1.4	1.1	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.4	1	
			Naphthalene	14	mg/Kg	1.4	1.4	
			Phenanthrene	5.9	mg/Kg	1.4	0.93	
			Pyrene	ND	mg/Kg	1.4	0.83	
01NE28SD171	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	2200	mg/Kg	94	17	
		AK103	RRO	4200	mg/Kg	190	190	VJ
		DU	Total Organic Carbon (TOC)	24	PERCENT	0.081	0.005	
		E160.3	Total Solids	16	PERCENT	0.01	0.01	
		SW6010B	Chromium	9	mg/Kg	4	1	
			Lead	ND	mg/Kg	20	5	
			Zinc	19	mg/Kg	5	2	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.25	0.0672	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.5	0.0805	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.25	0.0347	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.25	0.041	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.25	0.0269	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.25	0.0813	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.25	0.0659	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.045	0.045	
			Acenaphthene	ND	mg/Kg	0.045	0.03	
			Acenaphthylene	ND	mg/Kg	0.045	0.03	
			Anthracene	ND	mg/Kg	0.045	0.03	
			Benzo(a)anthracene	ND	mg/Kg	0.045	0.025	
			Benzo(a)pyrene	ND	mg/Kg	0.045	0.022	
			Benzo(b)fluoranthene	ND	mg/Kg	0.045	0.029	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.045	0.025	
			Benzo(k)fluoranthene	ND	mg/Kg	0.045	0.022	
			Chrysene	ND	mg/Kg	0.045	0.021	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.045	0.022	
			Dibenzofuran	ND	mg/Kg	0.045	0.045	
			Fluoranthene	ND	mg/Kg	0.045	0.023	
			Fluorene	ND	mg/Kg	0.045	0.034	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.045	0.031	
			Naphthalene	ND	mg/Kg	0.045	0.043	
			Phenanthrene	ND	mg/Kg	0.045	0.029	
			Pyrene	ND	mg/Kg	0.045	0.026	
01NE28SD172	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	5700	mg/Kg	220	39	
		AK103	RRO	360	mg/Kg	43	43	VJ
		DU	Total Organic Carbon (TOC)	25	PERCENT	0.076	0.005	
		E160.3	Total Solids	12.2	PERCENT	0.01	0.01	
		SW6010B	Chromium	15	mg/Kg	3	0.8	
			Lead	30	mg/Kg	10	4	
			Zinc	104	mg/Kg	4	2	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.29	0.0763	VQQ
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.57	0.0914	VQQ
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.29	0.0394	VQQ
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.29	0.0466	VQQ
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.29	0.0306	VQQ
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.29	0.0923	VQQ
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.29	0.0749	VQQ
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	4.2	4.2	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD172	Sediment Depth 0 to 0.5 feet bgs	SW8270 SIM	Acenaphthene	ND	mg/Kg	4.2	2.8	
			Acenaphthylene	ND	mg/Kg	4.2	2.8	
			Anthracene	ND	mg/Kg	4.2	2.8	
			Benzo(a)anthracene	ND	mg/Kg	4.2	2.3	
			Benzo(a)pyrene	ND	mg/Kg	4.2	2	
			Benzo(b)fluoranthene	ND	mg/Kg	4.2	2.7	
			Benzo(g,h,i)perylene	ND	mg/Kg	4.2	2.3	
			Benzo(k)fluoranthene	ND	mg/Kg	4.2	2.1	
			Chrysene	ND	mg/Kg	4.2	1.9	
			Dibenzo(a,h)anthracene	ND	mg/Kg	4.2	2	
			Dibenzofuran	ND	mg/Kg	4.2	4.2	
			Fluoranthene	ND	mg/Kg	4.2	2.1	
			Fluorene	ND	mg/Kg	4.2	3.1	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	4.2	2.9	
			Naphthalene	ND	mg/Kg	4.2	3.9	
			Phenanthrene	ND	mg/Kg	4.2	2.7	
			Pyrene	ND	mg/Kg	4.2	2.4	
01NE28SD173	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	1600	mg/Kg	93	17	
		AK103	RRO	2100	mg/Kg	190	190	VJ
		DU	Total Organic Carbon (TOC)	16	PERCENT	0.068	0.005	
		E160.3	Total Solids	31.2	PERCENT	0.01	0.01	
		SW6010B	Chromium	29	mg/Kg	1	0.3	
			Lead	22	mg/Kg	5	2	
			Zinc	54	mg/Kg	2	0.7	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.12	0.0332	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.25	0.0398	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.12	0.0171	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.12	0.0202	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.12	0.0133	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.12	0.0401	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.12	0.0325	
		SW8270 SIM	2-Methylnaphthalene	1.4	mg/Kg	0.054	0.054	
			Acenaphthene	ND	mg/Kg	0.054	0.037	
			Acenaphthylene	ND	mg/Kg	0.054	0.036	
			Anthracene	ND	mg/Kg	0.054	0.036	
			Benzo(a)anthracene	ND	mg/Kg	0.054	0.03	
			Benzo(a)pyrene	ND	mg/Kg	0.054	0.026	
			Benzo(b)fluoranthene	ND	mg/Kg	0.054	0.035	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.054	0.03	
			Benzo(k)fluoranthene	ND	mg/Kg	0.054	0.027	
			Chrysene	ND	mg/Kg	0.054	0.025	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.054	0.026	
			Dibenzofuran	ND	mg/Kg	0.054	0.054	
			Fluoranthene	ND	mg/Kg	0.054	0.028	
			Fluorene	0.087	mg/Kg	0.054	0.041	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.054	0.037	
			Naphthalene	2	mg/Kg	0.054	0.051	
			Phenanthrene	ND	mg/Kg	0.054	0.035	
			Pyrene	ND	mg/Kg	0.054	0.031	
01NE28SD174	Subsurface Sediment Depth 1.5 to 2 feet bgs	AK102	DRO	950	mg/Kg	11	1.9	
		AK103	RRO	2000	mg/Kg	21	21	VJ
		DU	Total Organic Carbon (TOC)	10	PERCENT	0.005	0.005	
		E160.3	Total Solids	40.9	PERCENT	0.01	0.01	
		SW6010B	Chromium	26.1	mg/Kg	0.8	0.2	
			Lead	14	mg/Kg	3	1	
			Zinc	47.9	mg/Kg	1	0.5	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.071	0.0191	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.14	0.0229	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.071	0.0099	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD174	Subsurface Sediment Depth 1.5 to 2 feet bgs	SW8082	PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.071	0.0116	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.071	0.0076	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.071	0.0231	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.071	0.0187	
		SW8270 SIM	2-Methylnaphthalene	0.66	mg/Kg	0.031	0.031	
			Acenaphthene	0.031	mg/Kg	0.031	0.021	
			Acenaphthylene	ND	mg/Kg	0.031	0.02	
			Anthracene	ND	mg/Kg	0.031	0.02	
			Benzo(a)anthracene	ND	mg/Kg	0.031	0.017	
			Benzo(a)pyrene	ND	mg/Kg	0.031	0.015	
			Benzo(b)fluoranthene	ND	mg/Kg	0.031	0.02	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.031	0.017	
			Benzo(k)fluoranthene	ND	mg/Kg	0.031	0.015	
			Chrysene	ND	mg/Kg	0.031	0.014	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.031	0.015	
			Dibenzofuran	ND	mg/Kg	0.031	0.031	
			Fluoranthene	ND	mg/Kg	0.031	0.016	
			Fluorene	0.062	mg/Kg	0.031	0.023	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.031	0.021	
			Naphthalene	0.33	mg/Kg	0.031	0.029	
			Phenanthrene	ND	mg/Kg	0.031	0.02	
			Pyrene	ND	mg/Kg	0.031	0.018	
01NE28SD175	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	280	mg/Kg	14	2.4	VLB
		AK103	RRO	1200	mg/Kg	27	27	VJ
		DU	Total Organic Carbon (TOC)	22	PERCENT	0.081	0.005	
		E160.3	Total Solids	20.2	PERCENT	0.01	0.01	
		SW6010B	Chromium	14	mg/Kg	3	0.7	
			Lead	30	mg/Kg	10	3	
			Zinc	48	mg/Kg	3	1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.18	0.0481	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.36	0.0577	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.18	0.0249	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.18	0.0294	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.18	0.0193	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.18	0.0582	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.18	0.0472	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.033	0.033	VQQ
			Acenaphthene	ND	mg/Kg	0.033	0.022	VQQ
			Acenaphthylene	ND	mg/Kg	0.033	0.022	VQQ
			Anthracene	ND	mg/Kg	0.033	0.022	VQQ
			Benzo(a)anthracene	ND	mg/Kg	0.033	0.018	VQQ
			Benzo(a)pyrene	ND	mg/Kg	0.033	0.016	VQQ
			Benzo(b)fluoranthene	ND	mg/Kg	0.033	0.021	VQQ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.033	0.018	VQQ
			Benzo(k)fluoranthene	ND	mg/Kg	0.033	0.016	VQQ
			Chrysene	ND	mg/Kg	0.033	0.015	VQQ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.033	0.016	VQQ
			Dibenzofuran	ND	mg/Kg	0.033	0.033	VQQ
			Fluoranthene	ND	mg/Kg	0.033	0.017	VQQ
			Fluorene	ND	mg/Kg	0.033	0.024	VQQ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.033	0.022	VQQ
			Naphthalene	ND	mg/Kg	0.033	0.031	VQQ
			Phenanthrene	ND	mg/Kg	0.033	0.021	VQQ
			Pyrene	ND	mg/Kg	0.033	0.019	VQQ
01NE28SD176	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	790	mg/Kg	22	4	VLB
		AK103	RRO	1400	mg/Kg	44	44	VJ
		DU	Total Organic Carbon (TOC)	43	PERCENT	0.065	0.005	
		E160.3	Total Solids	14.8	PERCENT	0.01	0.01	
		SW6010B	Chromium	12	mg/Kg	3	0.9	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD176	Sediment Depth 0 to 0.5 feet bgs	SW6010B	Lead	20	mg/Kg	10	4	
			Zinc	68	mg/Kg	4	2	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.29	0.0785	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.59	0.0941	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.29	0.0406	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.29	0.0479	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.29	0.0315	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.29	0.095	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.29	0.0771	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.052	0.052	
			Acenaphthene	ND	mg/Kg	0.052	0.035	
			Acenaphthylene	ND	mg/Kg	0.052	0.035	
			Anthracene	ND	mg/Kg	0.052	0.035	
			Benzo(a)anthracene	ND	mg/Kg	0.052	0.029	
			Benzo(a)pyrene	ND	mg/Kg	0.052	0.025	
			Benzo(b)fluoranthene	ND	mg/Kg	0.052	0.034	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.052	0.029	
			Benzo(k)fluoranthene	ND	mg/Kg	0.052	0.026	
			Chrysene	ND	mg/Kg	0.052	0.024	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.052	0.025	
			Dibenzofuran	ND	mg/Kg	0.052	0.052	
			Fluoranthene	ND	mg/Kg	0.052	0.027	
			Fluorene	ND	mg/Kg	0.052	0.039	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.052	0.036	
			Naphthalene	ND	mg/Kg	0.052	0.05	
			Phenanthrene	ND	mg/Kg	0.052	0.034	
			Pyrene	ND	mg/Kg	0.052	0.03	
01NE28SD177	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	12000	mg/Kg	440	78	
		AK103	RRO	1200	mg/Kg	870	870	VJ
		DU	Total Organic Carbon (TOC)	21	PERCENT	0.039	0.005	
		E160.3	Total Solids	27.6	PERCENT	0.01	0.01	
		SW6010B	Chromium	20	mg/Kg	2	0.5	
			Lead	39	mg/Kg	8	3	
			Zinc	62	mg/Kg	2	1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.12	0.031	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.23	0.0371	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.12	0.016	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.12	0.0189	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.12	0.0124	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.12	0.0374	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.12	0.0304	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	1.7	1.7	
			Acenaphthene	ND	mg/Kg	1.7	1.2	
			Acenaphthylene	ND	mg/Kg	1.7	1.1	
			Anthracene	ND	mg/Kg	1.7	1.1	
			Benzo(a)anthracene	ND	mg/Kg	1.7	0.96	
			Benzo(a)pyrene	ND	mg/Kg	1.7	0.83	
			Benzo(b)fluoranthene	ND	mg/Kg	1.7	1.1	
			Benzo(g,h,i)perylene	ND	mg/Kg	1.7	0.96	
			Benzo(k)fluoranthene	ND	mg/Kg	1.7	0.85	
			Chrysene	ND	mg/Kg	1.7	0.8	
			Dibenzo(a,h)anthracene	ND	mg/Kg	1.7	0.83	
			Dibenzofuran	ND	mg/Kg	1.7	1.7	
			Fluoranthene	ND	mg/Kg	1.7	0.88	
			Fluorene	ND	mg/Kg	1.7	1.3	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.7	1.2	
			Naphthalene	ND	mg/Kg	1.7	1.6	
			Phenanthrene	ND	mg/Kg	1.7	1.1	
			Pyrene	ND	mg/Kg	1.7	0.98	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD178	Sediment	AK102	DRO	45000	mg/Kg	1600	290	
	Depth 0	AK103	RRO	2200	mg/Kg	330	330	VJ
	to 0.5 feet bgs	DU	Total Organic Carbon (TOC)	9.7	PERCENT	0.034	0.005	
		E160.3	Total Solids	33.8	PERCENT	0.01	0.01	
		SW6010B	Chromium	21	mg/Kg	2	0.4	
			Lead	33	mg/Kg	6	2	
			Zinc	66	mg/Kg	2	0.9	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.029	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0348	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.015	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0177	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0116	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0351	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0285	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	3.1	3.1	
			Acenaphthene	ND	mg/Kg	3.1	2.1	
			Acenaphthylene	ND	mg/Kg	3.1	2.1	
			Anthracene	ND	mg/Kg	3.1	2.1	
			Benzo(a)anthracene	ND	mg/Kg	3.1	1.7	
			Benzo(a)pyrene	ND	mg/Kg	3.1	1.5	
			Benzo(b)fluoranthene	ND	mg/Kg	3.1	2	
			Benzo(g,h,i)perylene	ND	mg/Kg	3.1	1.7	
			Benzo(k)fluoranthene	ND	mg/Kg	3.1	1.5	
			Chrysene	ND	mg/Kg	3.1	1.5	
			Dibenzo(a,h)anthracene	ND	mg/Kg	3.1	1.5	
			Dibenzofuran	ND	mg/Kg	3.1	3.1	
			Fluoranthene	ND	mg/Kg	3.1	1.6	
			Fluorene	ND	mg/Kg	3.1	2.3	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	3.1	2.2	
			Naphthalene	ND	mg/Kg	3.1	3	
			Phenanthrene	ND	mg/Kg	3.1	2	
			Pyrene	ND	mg/Kg	3.1	1.8	
01NE28SD179	Sediment	AK102	DRO	9600	mg/Kg	500	59	
	Depth 0	AK103	RRO	1300	mg/Kg	1000	1000	VJ
	to 0.5 feet bgs	DU	Total Organic Carbon (TOC)	4.5	PERCENT	0.005	0.005	
		E160.3	Total Solids	72.8	PERCENT	0.01	0.01	
		SW6010B	Chromium	14.4	mg/Kg	0.7	0.2	
			Lead	24	mg/Kg	3	0.9	
			Zinc	49.3	mg/Kg	0.9	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.043	0.0116	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.087	0.0139	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.043	0.006	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.043	0.0071	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.043	0.0047	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.043	0.014	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.043	0.0114	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	1.2	1.2	
			Acenaphthene	ND	mg/Kg	1.2	0.84	
			Acenaphthylene	ND	mg/Kg	1.2	0.82	
			Anthracene	ND	mg/Kg	1.2	0.82	
			Benzo(a)anthracene	ND	mg/Kg	1.2	0.69	
			Benzo(a)pyrene	ND	mg/Kg	1.2	0.6	
			Benzo(b)fluoranthene	ND	mg/Kg	1.2	0.81	
			Benzo(g,h,i)perylene	ND	mg/Kg	1.2	0.69	
			Benzo(k)fluoranthene	ND	mg/Kg	1.2	0.62	
			Chrysene	ND	mg/Kg	1.2	0.58	
			Dibenzo(a,h)anthracene	ND	mg/Kg	1.2	0.6	
			Dibenzofuran	ND	mg/Kg	1.2	1.2	
			Fluoranthene	ND	mg/Kg	1.2	0.64	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD179	Sediment Depth 0 to 0.5 feet bgs	SW8270 SIM	Fluorene	ND	mg/Kg	1.2	0.94	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.2	0.86	
			Naphthalene	ND	mg/Kg	1.2	1.2	
			Phenanthrene	ND	mg/Kg	1.2	0.81	
			Pyrene	ND	mg/Kg	1.2	0.71	
01NE28SD180	Subsurface Sediment Depth 1.5 to 2 feet bgs	AK102	DRO	8900	mg/Kg	560	100	
		AK103	RRO	1900	mg/Kg	1100	1100	VJ
		DU	Total Organic Carbon (TOC)	3.4	PERCENT	0.005	0.005	
		E160.3	Total Solids	72	PERCENT	0.01	0.01	
		SW6010B	Chromium	31.3	mg/Kg	0.8	0.2	
			Lead	42	mg/Kg	3	1	
			Zinc	99.5	mg/Kg	0.9	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.074	0.0198	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.15	0.0237	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.074	0.0102	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.074	0.0121	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.074	0.0079	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.074	0.0239	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.074	0.0194	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	1.1	1.1	
			Acenaphthene	ND	mg/Kg	1.1	0.73	
			Acenaphthylene	ND	mg/Kg	1.1	0.72	
			Anthracene	ND	mg/Kg	1.1	0.72	
			Benzo(a)anthracene	ND	mg/Kg	1.1	0.6	
			Benzo(a)pyrene	ND	mg/Kg	1.1	0.52	
			Benzo(b)fluoranthene	ND	mg/Kg	1.1	0.7	
			Benzo(g,h,i)perylene	ND	mg/Kg	1.1	0.6	
			Benzo(k)fluoranthene	ND	mg/Kg	1.1	0.54	
			Chrysene	ND	mg/Kg	1.1	0.51	
			Dibenzo(a,h)anthracene	ND	mg/Kg	1.1	0.52	
			Dibenzofuran	ND	mg/Kg	1.1	1.1	
			Fluoranthene	ND	mg/Kg	1.1	0.55	
			Fluorene	ND	mg/Kg	1.1	0.82	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.1	0.75	
			Naphthalene	ND	mg/Kg	1.1	1	
			Phenanthrene	ND	mg/Kg	1.1	0.7	
			Pyrene	ND	mg/Kg	1.1	0.62	
01NE28SD181	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	4100	mg/Kg	100	13	
		AK103	RRO	1700	mg/Kg	200	200	VJ
		DU	Total Organic Carbon (TOC)	3.4	PERCENT	0.005	0.005	
		E160.3	Total Solids	73	PERCENT	0.01	0.01	
		SW6010B	Chromium	19	mg/Kg	1	0.3	
			Lead	30	mg/Kg	4	1	
			Zinc	124	mg/Kg	1	0.6	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.047	0.0126	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.094	0.0151	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.047	0.0065	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.047	0.0077	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.047	0.0051	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.047	0.0152	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.047	0.0124	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	1.4	1.4	
			Acenaphthene	ND	mg/Kg	1.4	0.92	
			Acenaphthylene	ND	mg/Kg	1.4	0.9	
			Anthracene	1.9	mg/Kg	1.4	0.9	
			Benzo(a)anthracene	4.4	mg/Kg	1.4	0.76	
			Benzo(a)pyrene	2.3	mg/Kg	1.4	0.66	
			Benzo(b)fluoranthene	2.6	mg/Kg	1.4	0.88	
			Benzo(g,h,i)perylene	ND	mg/Kg	1.4	0.76	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD181	Sediment Depth 0 to 0.5 feet bgs	SW8270 SIM	Benzo(k)fluoranthene	2.7	mg/Kg	1.4	0.68	
			Chrysene	5.5	mg/Kg	1.4	0.64	
			Dibenzo(a,h)anthracene	ND	mg/Kg	1.4	0.66	
			Dibenzofuran	ND	mg/Kg	1.4	1.4	
			Fluoranthene	9.3	mg/Kg	1.4	0.7	
			Fluorene	ND	mg/Kg	1.4	1	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.4	0.95	
			Naphthalene	ND	mg/Kg	1.4	1.3	
			Phenanthrene	4.1	mg/Kg	1.4	0.88	
			Pyrene	7.5	mg/Kg	1.4	0.78	
01NE28SD182	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	1400	mg/Kg	170	31	
		AK103	RRO	2100	mg/Kg	340	340	VJ
		DU	Total Organic Carbon (TOC)	11	PERCENT	0.005	0.005	
		E160.3	Total Solids	36.4	PERCENT	0.01	0.01	
		SW6010B	Chromium	21	mg/Kg	1	0.4	
			Lead	39	mg/Kg	5	2	
			Zinc	65	mg/Kg	2	0.8	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.0303	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.23	0.0363	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.0156	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0185	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0121	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0366	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0297	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.068	0.068	
			Acenaphthene	ND	mg/Kg	0.068	0.046	
			Acenaphthylene	ND	mg/Kg	0.068	0.045	
			Anthracene	ND	mg/Kg	0.068	0.045	
			Benzo(a)anthracene	ND	mg/Kg	0.068	0.038	
			Benzo(a)pyrene	ND	mg/Kg	0.068	0.033	
			Benzo(b)fluoranthene	ND	mg/Kg	0.068	0.044	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.068	0.038	
			Benzo(k)fluoranthene	ND	mg/Kg	0.068	0.034	
			Chrysene	ND	mg/Kg	0.068	0.032	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.068	0.033	
			Dibenzofuran	ND	mg/Kg	0.068	0.068	
			Fluoranthene	ND	mg/Kg	0.068	0.035	
			Fluorene	ND	mg/Kg	0.068	0.051	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.068	0.047	
			Naphthalene	ND	mg/Kg	0.068	0.064	
			Phenanthrene	ND	mg/Kg	0.068	0.044	
			Pyrene	ND	mg/Kg	0.068	0.039	
01NE28SD183	Sediment Depth 0 to 0.5 feet bgs	SW8081	4,4'-DDD	0.21	mg/Kg	0.035	0.0016	
			4,4'-DDE	ND	mg/Kg	0.018	0.0003	
			4,4'-DDT	ND	mg/Kg	0.014	0.0005	
			Aldrin	ND	mg/Kg	0.0035	0.0001	
			alpha-BHC	ND	mg/Kg	0.0063	0.0002	
			alpha-Chlordane	ND	mg/Kg	0.0035	0.0001	
			beta-BHC	0.012	mg/Kg	0.0035	0.0002	
			delta-BHC	ND	mg/Kg	0.0035	0.0002	
			Dieldrin	ND	mg/Kg	0.011	0.0002	
			Endosulfan I	ND	mg/Kg	0.0035	0.0002	
			Endosulfan II	ND	mg/Kg	0.007	0.0004	
			Endosulfan sulfate	ND	mg/Kg	0.011	0.0006	
			Endrin	ND	mg/Kg	0.007	0.0002	
			Endrin aldehyde	ND	mg/Kg	0.007	0.0004	
			Endrin ketone	ND	mg/Kg	0.007	0.0007	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0039	0.0002	
			gamma-Chlordane	ND	mg/Kg	0.0064	0.0001	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD183	Sediment Depth 0 to 0.5 feet bgs	SW8081	Heptachlor	0.0046	mg/Kg	0.0035	0.0002	
			Heptachlor epoxide	ND	mg/Kg	0.0035	0.0002	
			Methoxychlor	ND	mg/Kg	0.035	0.0021	
			Toxaphene	ND	mg/Kg	0.35	0.016	
01NE28SD184	Subsurface Sediment Depth 1.5 to 2 feet bgs	SW8081	4,4'-DDD	0.027	mg/Kg	0.0054	0.0002	
			4,4'-DDE	ND	mg/Kg	0.0054	0.0002	
			4,4'-DDT	ND	mg/Kg	0.0054	0.0004	
			Aldrin	ND	mg/Kg	0.0027	1E-04	
			alpha-BHC	ND	mg/Kg	0.0027	0.0002	
			alpha-Chlordane	ND	mg/Kg	0.0027	8E-05	
			beta-BHC	ND	mg/Kg	0.0027	0.0002	
			delta-BHC	ND	mg/Kg	0.0027	0.0001	
			Dieldrin	ND	mg/Kg	0.0054	0.0002	
			Endosulfan I	ND	mg/Kg	0.0027	0.0002	
			Endosulfan II	ND	mg/Kg	0.0054	0.0003	
			Endosulfan sulfate	ND	mg/Kg	0.0054	0.0005	
			Endrin	ND	mg/Kg	0.0054	0.0002	
			Endrin aldehyde	ND	mg/Kg	0.0054	0.0003	
			Endrin ketone	ND	mg/Kg	0.0054	0.0006	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0027	0.0001	
			gamma-Chlordane	ND	mg/Kg	0.0027	0.0001	
			Heptachlor	ND	mg/Kg	0.0027	0.0001	
			Heptachlor epoxide	ND	mg/Kg	0.0027	0.0001	
			Methoxychlor	ND	mg/Kg	0.027	0.0016	
			Toxaphene	ND	mg/Kg	0.27	0.012	
01NE28SD185	Sediment Depth 0 to 0.5 feet bgs	SW8081	4,4'-DDD	1.5	mg/Kg	0.26	0.012	
			4,4'-DDE	ND	mg/Kg	0.11	0.0003	
			4,4'-DDT	ND	mg/Kg	0.032	0.0005	
			Aldrin	ND	mg/Kg	0.0033	0.0001	
			alpha-BHC	ND	mg/Kg	0.004	0.0002	
			alpha-Chlordane	ND	mg/Kg	0.0033	1E-04	
			beta-BHC	ND	mg/Kg	0.0064	0.0002	
			delta-BHC	ND	mg/Kg	0.0033	0.0001	
			Dieldrin	ND	mg/Kg	0.097	0.0002	
			Endosulfan I	ND	mg/Kg	0.0033	0.0002	
			Endosulfan II	ND	mg/Kg	0.0083	0.0004	
			Endosulfan sulfate	ND	mg/Kg	0.058	0.0006	
			Endrin	ND	mg/Kg	0.0066	0.0002	
			Endrin aldehyde	ND	mg/Kg	0.038	0.0004	
			Endrin ketone	ND	mg/Kg	0.0066	0.0007	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0033	0.0001	
			gamma-Chlordane	ND	mg/Kg	0.032	0.0001	
			Heptachlor	ND	mg/Kg	0.0033	0.0001	
			Heptachlor epoxide	ND	mg/Kg	0.0033	0.0001	
			Methoxychlor	ND	mg/Kg	0.033	0.002	
			Toxaphene	ND	mg/Kg	0.33	0.015	
01NE28SD186	Subsurface Sediment Depth 1.5 to 2 feet bgs	SW8081	4,4'-DDD	0.47	mg/Kg	0.1	0.0045	
			4,4'-DDE	ND	mg/Kg	0.018	0.0002	
			4,4'-DDT	ND	mg/Kg	0.014	0.0003	
			Aldrin	ND	mg/Kg	0.0025	9E-05	
			alpha-BHC	ND	mg/Kg	0.004	0.0001	
			alpha-Chlordane	ND	mg/Kg	0.0025	8E-05	
			beta-BHC	ND	mg/Kg	0.0063	0.0002	
			delta-BHC	ND	mg/Kg	0.0025	0.0001	
			Dieldrin	ND	mg/Kg	0.005	0.0002	
			Endosulfan I	ND	mg/Kg	0.0025	0.0001	
			Endosulfan II	ND	mg/Kg	0.0087	0.0003	
			Endosulfan sulfate	0.0086	mg/Kg	0.005	0.0004	
			Endrin	ND	mg/Kg	0.005	0.0002	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD186	Subsurface Sediment Depth 1.5 to 2 feet bgs	SW8081	Endrin aldehyde	ND	mg/Kg	0.005	0.0003	
			Endrin ketone	ND	mg/Kg	0.005	0.0005	
			gamma-BHC (Lindane)	0.0065	mg/Kg	0.0025	0.0001	
			gamma-Chlordane	ND	mg/Kg	0.0064	1E-04	
			Heptachlor	0.0044	mg/Kg	0.0025	0.0001	
			Heptachlor epoxide	ND	mg/Kg	0.0025	0.0001	
			Methoxychlor	ND	mg/Kg	0.025	0.0015	
			Toxaphene	ND	mg/Kg	0.25	0.011	
01NE28SD187	Sediment Depth 0 to 0.5 feet bgs	SW8081	4,4'-DDD	0.0072	mg/Kg	0.0066	0.0003	
			4,4'-DDE	ND	mg/Kg	0.0066	0.0003	
			4,4'-DDT	ND	mg/Kg	0.0066	0.0005	
			Aldrin	ND	mg/Kg	0.0033	0.0001	
			alpha-BHC	ND	mg/Kg	0.0033	0.0002	
			alpha-Chlordane	ND	mg/Kg	0.0033	0.0001	
			beta-BHC	ND	mg/Kg	0.0033	0.0002	
			delta-BHC	ND	mg/Kg	0.0033	0.0002	
			Dieldrin	ND	mg/Kg	0.0066	0.0002	
			Endosulfan I	ND	mg/Kg	0.0033	0.0002	
			Endosulfan II	ND	mg/Kg	0.0066	0.0004	
			Endosulfan sulfate	ND	mg/Kg	0.0066	0.0006	
			Endrin	ND	mg/Kg	0.0066	0.0002	
			Endrin aldehyde	ND	mg/Kg	0.0066	0.0004	
			Endrin ketone	ND	mg/Kg	0.0066	0.0007	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0033	0.0001	
			gamma-Chlordane	ND	mg/Kg	0.0033	0.0001	
			Heptachlor	ND	mg/Kg	0.0033	0.0002	
			Heptachlor epoxide	ND	mg/Kg	0.0033	0.0002	
			Methoxychlor	ND	mg/Kg	0.033	0.002	
			Toxaphene	ND	mg/Kg	0.33	0.015	
01NE28SD188	Sediment Depth 0 to 0.5 feet bgs	SW8081	4,4'-DDD	ND	mg/Kg	0.034	0.0015	
			4,4'-DDE	ND	mg/Kg	0.034	0.0013	
			4,4'-DDT	ND	mg/Kg	0.034	0.0023	
			Aldrin	ND	mg/Kg	0.017	0.0006	
			alpha-BHC	ND	mg/Kg	0.017	0.0009	
			alpha-Chlordane	ND	mg/Kg	0.017	0.0005	
			beta-BHC	ND	mg/Kg	0.017	0.001	
			delta-BHC	ND	mg/Kg	0.017	0.0007	
			Dieldrin	ND	mg/Kg	0.034	0.001	
			Endosulfan I	ND	mg/Kg	0.017	0.0009	
			Endosulfan II	ND	mg/Kg	0.034	0.0021	
			Endosulfan sulfate	ND	mg/Kg	0.034	0.0028	
			Endrin	ND	mg/Kg	0.034	0.001	
			Endrin aldehyde	ND	mg/Kg	0.034	0.0019	
			Endrin ketone	ND	mg/Kg	0.034	0.0034	
			gamma-BHC (Lindane)	ND	mg/Kg	0.017	0.0007	
			gamma-Chlordane	ND	mg/Kg	0.017	0.0006	
			Heptachlor	ND	mg/Kg	0.017	0.0007	
			Heptachlor epoxide	ND	mg/Kg	0.017	0.0007	
			Methoxychlor	ND	mg/Kg	0.17	0.01	
			Toxaphene	ND	mg/Kg	1.7	0.076	
01NE28SD189	Sediment Depth 0 to 0.5 feet bgs	SW8081	4,4'-DDD	ND	mg/Kg	0.031	0.0014	
			4,4'-DDE	ND	mg/Kg	0.031	0.0012	
			4,4'-DDT	ND	mg/Kg	0.031	0.0021	
			Aldrin	ND	mg/Kg	0.015	0.0006	
			alpha-BHC	ND	mg/Kg	0.015	0.0008	
			alpha-Chlordane	ND	mg/Kg	0.015	0.0005	
			beta-BHC	ND	mg/Kg	0.015	0.0009	
			delta-BHC	ND	mg/Kg	0.015	0.0007	
			Dieldrin	ND	mg/Kg	0.031	0.0009	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD189	Sediment Depth 0 to 0.5 feet bgs	SW8081	Endosulfan I	ND	mg/Kg	0.015	0.0008	
			Endosulfan II	ND	mg/Kg	0.031	0.0019	
			Endosulfan sulfate	ND	mg/Kg	0.031	0.0026	
			Endrin	ND	mg/Kg	0.031	0.0009	
			Endrin aldehyde	ND	mg/Kg	0.031	0.0017	
			Endrin ketone	ND	mg/Kg	0.031	0.0031	
			gamma-BHC (Lindane)	ND	mg/Kg	0.015	0.0006	
			gamma-Chlordane	ND	mg/Kg	0.015	0.0006	
			Heptachlor	ND	mg/Kg	0.015	0.0007	
			Heptachlor epoxide	ND	mg/Kg	0.015	0.0007	
			Methoxychlor	ND	mg/Kg	0.15	0.0092	
			Toxaphene	ND	mg/Kg	1.5	0.069	
01NE28SD190	Sediment Depth 0 to 0.5 feet bgs	SW8081	4,4'-DDD	ND	mg/Kg	0.01	0.0005	
			4,4'-DDE	ND	mg/Kg	0.01	0.0004	
			4,4'-DDT	ND	mg/Kg	0.01	0.0007	
			Aldrin	ND	mg/Kg	0.0052	0.0002	
			alpha-BHC	ND	mg/Kg	0.0052	0.0003	
			alpha-Chlordane	ND	mg/Kg	0.0052	0.0002	
			beta-BHC	ND	mg/Kg	0.0052	0.0003	
			delta-BHC	ND	mg/Kg	0.0052	0.0002	
			Dieldrin	ND	mg/Kg	0.01	0.0003	
			Endosulfan I	ND	mg/Kg	0.0052	0.0003	
			Endosulfan II	ND	mg/Kg	0.01	0.0006	
			Endosulfan sulfate	ND	mg/Kg	0.01	0.0009	
			Endrin	ND	mg/Kg	0.01	0.0003	
			Endrin aldehyde	ND	mg/Kg	0.01	0.0006	
			Endrin ketone	ND	mg/Kg	0.01	0.0011	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0052	0.0002	
			gamma-Chlordane	ND	mg/Kg	0.0052	0.0002	
			Heptachlor	ND	mg/Kg	0.0052	0.0002	
			Heptachlor epoxide	ND	mg/Kg	0.0052	0.0002	
			Methoxychlor	ND	mg/Kg	0.052	0.0031	
			Toxaphene	ND	mg/Kg	0.52	0.023	
01NE28SD191	Sediment Depth 0 to 0.5 feet bgs	SW8081	4,4'-DDD	0.015	mg/Kg	0.0053	0.0002	
			4,4'-DDE	ND	mg/Kg	0.0053	0.0002	
			4,4'-DDT	ND	mg/Kg	0.0053	0.0004	
			Aldrin	ND	mg/Kg	0.0026	1E-04	
			alpha-BHC	ND	mg/Kg	0.0029	0.0001	
			alpha-Chlordane	ND	mg/Kg	0.0026	8E-05	
			beta-BHC	ND	mg/Kg	0.0092	0.0002	
			delta-BHC	ND	mg/Kg	0.0026	0.0001	
			Dieldrin	ND	mg/Kg	0.0053	0.0002	
			Endosulfan I	ND	mg/Kg	0.0026	0.0001	
			Endosulfan II	ND	mg/Kg	0.0053	0.0003	
			Endosulfan sulfate	ND	mg/Kg	0.0053	0.0004	
			Endrin	ND	mg/Kg	0.0053	0.0002	
			Endrin aldehyde	ND	mg/Kg	0.0053	0.0003	
			Endrin ketone	ND	mg/Kg	0.0053	0.0005	
			gamma-BHC (Lindane)	0.0029	mg/Kg	0.0026	0.0001	
			gamma-Chlordane	ND	mg/Kg	0.0026	0.0001	
			Heptachlor	ND	mg/Kg	0.0026	0.0001	
			Heptachlor epoxide	ND	mg/Kg	0.0026	0.0001	
			Methoxychlor	ND	mg/Kg	0.026	0.0016	
			Toxaphene	ND	mg/Kg	0.26	0.012	
01NE28SD192	Sediment Depth 0 to 0.5 feet bgs	SW8081	4,4'-DDD	ND	mg/Kg	0.0072	0.0002	
			4,4'-DDE	ND	mg/Kg	0.0043	0.0002	
			4,4'-DDT	ND	mg/Kg	0.0043	0.0003	
			Aldrin	ND	mg/Kg	0.0022	8E-05	
			alpha-BHC	ND	mg/Kg	0.0022	0.0001	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD192	Sediment Depth 0 to 0.5 feet bgs	SW8081	alpha-Chlordane	ND	mg/Kg	0.0022	7E-05	
			beta-BHC	ND	mg/Kg	0.0022	0.0001	
			delta-BHC	ND	mg/Kg	0.0022	1E-04	
			Dieldrin	ND	mg/Kg	0.0043	0.0001	
			Endosulfan I	ND	mg/Kg	0.0022	0.0001	
			Endosulfan II	ND	mg/Kg	0.0043	0.0003	
			Endosulfan sulfate	ND	mg/Kg	0.0043	0.0004	
			Endrin	ND	mg/Kg	0.0043	0.0001	
			Endrin aldehyde	ND	mg/Kg	0.0043	0.0003	
			Endrin ketone	ND	mg/Kg	0.0043	0.0004	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0022	9E-05	
			gamma-Chlordane	ND	mg/Kg	0.0022	8E-05	
			Heptachlor	ND	mg/Kg	0.0022	1E-04	
			Heptachlor epoxide	ND	mg/Kg	0.0022	1E-04	
			Methoxychlor	ND	mg/Kg	0.022	0.0013	
			Toxaphene	ND	mg/Kg	0.22	0.0098	
01NE28SD211	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	1500	mg/Kg	19	3.4	
		AK103	RRO	820	mg/Kg	38	38	VJ
		SW6010B	Chromium	17	mg/Kg	4	1	
			Lead	ND	mg/Kg	20	6	
			Zinc	77	mg/Kg	5	3	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.25	0.0668	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.5	0.08	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.25	0.0345	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.25	0.0408	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.25	0.0268	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.25	0.0808	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.25	0.0655	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.044	0.044	
			Acenaphthene	ND	mg/Kg	0.044	0.03	
			Acenaphthylene	0.053	mg/Kg	0.044	0.029	
			Anthracene	ND	mg/Kg	0.044	0.029	
			Benzo(a)anthracene	ND	mg/Kg	0.044	0.024	
			Benzo(a)pyrene	ND	mg/Kg	0.044	0.021	
			Benzo(b)fluoranthene	ND	mg/Kg	0.044	0.028	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.044	0.024	
			Benzo(k)fluoranthene	ND	mg/Kg	0.044	0.022	
			Chrysene	ND	mg/Kg	0.044	0.02	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.044	0.021	
			Dibenzofuran	ND	mg/Kg	0.044	0.044	
			Fluoranthene	0.048	mg/Kg	0.044	0.022	
			Fluorene	ND	mg/Kg	0.044	0.033	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.044	0.03	
			Naphthalene	ND	mg/Kg	0.044	0.041	
			Phenanthrene	0.048	mg/Kg	0.044	0.028	
			Pyrene	0.079	mg/Kg	0.044	0.025	
01NE28SD225	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	860	mg/Kg	50	8.5	
		AK103	RRO	510	mg/Kg	100	100	VJ
		SW6010B	Chromium	17	mg/Kg	1	0.3	
			Lead	5	mg/Kg	4	1	
			Zinc	29	mg/Kg	1	0.6	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.062	0.0167	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.12	0.02	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.062	0.0086	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.062	0.0102	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.062	0.0067	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.062	0.0202	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.062	0.0164	
		SW8270 SIM	2-Methylnaphthalene	9.6	mg/Kg	0.18	0.18	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD225	Sediment Depth 0 to 0.5 feet bgs	SW8270 SIM	Acenaphthene	0.27	mg/Kg	0.037	0.025	
			Acenaphthylene	ND	mg/Kg	0.037	0.024	
			Anthracene	ND	mg/Kg	0.037	0.024	
			Benzo(a)anthracene	ND	mg/Kg	0.037	0.02	
			Benzo(a)pyrene	ND	mg/Kg	0.037	0.018	
			Benzo(b)fluoranthene	ND	mg/Kg	0.037	0.024	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.037	0.02	
			Benzo(k)fluoranthene	ND	mg/Kg	0.037	0.018	
			Chrysene	ND	mg/Kg	0.037	0.017	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.037	0.018	
			Dibenzofuran	0.081	mg/Kg	0.037	0.037	
			Fluoranthene	ND	mg/Kg	0.037	0.019	
			Fluorene	0.28	mg/Kg	0.037	0.028	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.037	0.025	
			Naphthalene	4.4	mg/Kg	0.18	0.17	
			Phenanthrene	0.11	mg/Kg	0.037	0.024	
			Pyrene	ND	mg/Kg	0.037	0.021	
01NE28SD239	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	610	mg/Kg	60	11	
		AK103	RRO	2500	mg/Kg	120	120	VJ
		SW6010B	Chromium	21	mg/Kg	1	0.3	
			Lead	9	mg/Kg	5	2	
			Zinc	51	mg/Kg	2	0.7	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.081	0.0215	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.16	0.0258	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.081	0.0111	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.081	0.0131	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.081	0.0086	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.081	0.026	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.081	0.0211	
		SW8270 SIM	2-Methylnaphthalene	0.016	mg/Kg	0.014	0.014	
			Acenaphthene	ND	mg/Kg	0.014	0.0097	
			Acenaphthylene	ND	mg/Kg	0.014	0.0095	
			Anthracene	ND	mg/Kg	0.014	0.0095	
			Benzo(a)anthracene	ND	mg/Kg	0.014	0.008	
			Benzo(a)pyrene	ND	mg/Kg	0.014	0.0069	
			Benzo(b)fluoranthene	ND	mg/Kg	0.014	0.0093	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.014	0.008	
			Benzo(k)fluoranthene	ND	mg/Kg	0.014	0.0071	
			Chrysene	ND	mg/Kg	0.014	0.0067	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.014	0.0069	
			Dibenzofuran	ND	mg/Kg	0.014	0.014	
			Fluoranthene	ND	mg/Kg	0.014	0.0074	
			Fluorene	ND	mg/Kg	0.014	0.011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.014	0.01	
			Naphthalene	0.017	mg/Kg	0.014	0.014	
			Phenanthrene	ND	mg/Kg	0.014	0.0093	
			Pyrene	ND	mg/Kg	0.014	0.0082	
01NE28SD251	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	14000	mg/Kg	500	61	
		AK103	RRO	ND	mg/Kg	1000	1000	VQQ
		SW6010B	Chromium	17.7	mg/Kg	0.7	0.2	
			Lead	23	mg/Kg	3	1	
			Zinc	67.9	mg/Kg	0.9	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.045	0.0121	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.09	0.0145	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.045	0.0062	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.045	0.0074	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.045	0.0048	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.045	0.0146	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.045	0.0119	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD251	Sediment Depth 0 to 0.5 feet bgs	SW8270 SIM	2-Methylnaphthalene	28	mg/Kg	0.68	0.68	
			Acenaphthene	1.5	mg/Kg	0.68	0.46	
			Acenaphthylene	ND	mg/Kg	0.68	0.45	
			Anthracene	ND	mg/Kg	0.68	0.45	
			Benzo(a)anthracene	ND	mg/Kg	0.68	0.38	
			Benzo(a)pyrene	ND	mg/Kg	0.68	0.32	
			Benzo(b)fluoranthene	ND	mg/Kg	0.68	0.44	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.68	0.38	
			Benzo(k)fluoranthene	ND	mg/Kg	0.68	0.33	
			Chrysene	ND	mg/Kg	0.68	0.31	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.68	0.32	
			Dibenzofuran	ND	mg/Kg	0.68	0.68	
			Fluoranthene	ND	mg/Kg	0.68	0.34	
			Fluorene	2.4	mg/Kg	0.68	0.51	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.68	0.47	
			Naphthalene	5.3	mg/Kg	0.68	0.64	
			Phenanthrene	0.95	mg/Kg	0.68	0.44	
			Pyrene	ND	mg/Kg	0.68	0.39	
01NE28SD253	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	20000	mg/Kg	1000	110	
		AK103	RRO	2400	mg/Kg	2000	2000	VJ
		SW6010B	Chromium	12.8	mg/Kg	0.8	0.2	
			Lead	60	mg/Kg	3	1	
			Zinc	67	mg/Kg	1	0.5	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.04	0.0106	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.08	0.0128	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.04	0.0055	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.04	0.0065	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.04	0.0043	
			PCB-1254 (Aroclor 1254)	0.17	mg/Kg	0.04	0.0129	
			PCB-1260 (Aroclor 1260)	0.099	mg/Kg	0.04	0.0104	
		SW8270 SIM	2-Methylnaphthalene	7.7	mg/Kg	0.57	0.57	
			Acenaphthene	1.2	mg/Kg	0.57	0.39	
			Acenaphthylene	ND	mg/Kg	0.57	0.38	
			Anthracene	ND	mg/Kg	0.57	0.38	
			Benzo(a)anthracene	ND	mg/Kg	0.57	0.32	
			Benzo(a)pyrene	ND	mg/Kg	0.57	0.28	
			Benzo(b)fluoranthene	ND	mg/Kg	0.57	0.37	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.57	0.32	
			Benzo(k)fluoranthene	ND	mg/Kg	0.57	0.28	
			Chrysene	ND	mg/Kg	0.57	0.27	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.57	0.28	
			Dibenzofuran	ND	mg/Kg	0.57	0.57	
			Fluoranthene	ND	mg/Kg	0.57	0.29	
			Fluorene	1.4	mg/Kg	0.57	0.43	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.57	0.4	
			Naphthalene	1.4	mg/Kg	0.57	0.54	
			Phenanthrene	0.63	mg/Kg	0.57	0.37	
			Pyrene	ND	mg/Kg	0.57	0.33	
01NE28SD257	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	18000	mg/Kg	1000	130	
		AK103	RRO	ND	mg/Kg	2000	2000	VQQ
		SW6010B	Chromium	22.6	mg/Kg	0.8	0.2	
			Lead	19	mg/Kg	3	1	
			Zinc	56.6	mg/Kg	0.9	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.049	0.013	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.097	0.0156	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.049	0.0067	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.049	0.0079	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.049	0.0052	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.049	0.0157	

Summary of Analytical Results Site 28
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Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD257	Sediment Depth 0 to 0.5 feet bgs	SW8082	PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.049	0.0127	
		SW8270 SIM	2-Methylnaphthalene	3.1	mg/Kg	0.071	0.071	
			Acenaphthene	ND	mg/Kg	0.071	0.048	
			Acenaphthylene	ND	mg/Kg	0.071	0.047	
			Anthracene	ND	mg/Kg	0.071	0.047	
			Benzo(a)anthracene	ND	mg/Kg	0.071	0.04	
			Benzo(a)pyrene	ND	mg/Kg	0.071	0.034	
			Benzo(b)fluoranthene	ND	mg/Kg	0.071	0.046	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.071	0.04	
			Benzo(k)fluoranthene	ND	mg/Kg	0.071	0.035	
			Chrysene	ND	mg/Kg	0.071	0.033	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.071	0.034	
			Dibenzofuran	ND	mg/Kg	0.071	0.071	
			Fluoranthene	ND	mg/Kg	0.071	0.036	
			Fluorene	ND	mg/Kg	0.071	0.054	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.071	0.049	
			Naphthalene	1.1	mg/Kg	0.071	0.068	
			Phenanthrene	ND	mg/Kg	0.071	0.046	
			Pyrene	ND	mg/Kg	0.071	0.041	
01NE28SD263	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	57000	mg/Kg	5000	660	
		AK103	RRO	4200	mg/Kg	200	200	VJ
		SW6010B	Chromium	23.2	mg/Kg	0.8	0.2	
			Lead	29	mg/Kg	3	1	
			Zinc	89.2	mg/Kg	1	0.5	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.048	0.0129	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.097	0.0155	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.048	0.0067	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.048	0.0079	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.048	0.0052	
			PCB-1254 (Aroclor 1254)	0.11	mg/Kg	0.048	0.0157	
			PCB-1260 (Aroclor 1260)	0.17	mg/Kg	0.048	0.0127	
		SW8270 SIM	2-Methylnaphthalene	2.7	mg/Kg	1.4	1.4	
			Acenaphthene	2.4	mg/Kg	1.4	0.95	
			Acenaphthylene	ND	mg/Kg	1.4	0.93	
			Anthracene	ND	mg/Kg	1.4	0.93	
			Benzo(a)anthracene	ND	mg/Kg	1.4	0.78	
			Benzo(a)pyrene	ND	mg/Kg	1.4	0.68	
			Benzo(b)fluoranthene	ND	mg/Kg	1.4	0.91	
			Benzo(g,h,i)perylene	ND	mg/Kg	1.4	0.78	
			Benzo(k)fluoranthene	ND	mg/Kg	1.4	0.7	
			Chrysene	ND	mg/Kg	1.4	0.65	
			Dibenzo(a,h)anthracene	ND	mg/Kg	1.4	0.68	
			Dibenzofuran	ND	mg/Kg	1.4	1.4	
			Fluoranthene	ND	mg/Kg	1.4	0.72	
			Fluorene	2.4	mg/Kg	1.4	1.1	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.4	0.97	
			Naphthalene	9.7	mg/Kg	1.4	1.3	
			Phenanthrene	ND	mg/Kg	1.4	0.91	
			Pyrene	ND	mg/Kg	1.4	0.8	
01NE28SD271	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	1500	mg/Kg	17	3	VLB
		AK103	RRO	1400	mg/Kg	34	34	VJ
		SW6010B	Chromium	8	mg/Kg	3	0.9	
			Lead	ND	mg/Kg	10	4	
			Zinc	17	mg/Kg	4	2	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.23	0.0603	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.45	0.0723	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.23	0.0312	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.23	0.0368	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.23	0.0242	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD271	Sediment Depth 0 to 0.5 feet bgs	SW8082	PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.23	0.073	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.23	0.0592	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.04	0.04	
			Acenaphthene	ND	mg/Kg	0.04	0.027	
			Acenaphthylene	ND	mg/Kg	0.04	0.026	
			Anthracene	ND	mg/Kg	0.04	0.026	
			Benzo(a)anthracene	ND	mg/Kg	0.04	0.022	
			Benzo(a)pyrene	ND	mg/Kg	0.04	0.019	
			Benzo(b)fluoranthene	ND	mg/Kg	0.04	0.026	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.04	0.022	
			Benzo(k)fluoranthene	ND	mg/Kg	0.04	0.02	
			Chrysene	ND	mg/Kg	0.04	0.019	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.04	0.019	
			Dibenzofuran	ND	mg/Kg	0.04	0.04	
			Fluoranthene	ND	mg/Kg	0.04	0.02	
			Fluorene	ND	mg/Kg	0.04	0.03	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.04	0.027	
			Naphthalene	ND	mg/Kg	0.04	0.038	
			Phenanthrene	ND	mg/Kg	0.04	0.026	
			Pyrene	ND	mg/Kg	0.04	0.023	
01NE28SD275	Sediment Depth 0 to 0.5 feet bgs	AK102	DRO	240	mg/Kg	13	2.3	
		AK103	RRO	1800	mg/Kg	26	26	VJ
		SW6010B	Chromium	9	mg/Kg	3	0.7	
			Lead	ND	mg/Kg	10	3	
			Zinc	16	mg/Kg	3	1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.17	0.046	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.34	0.0552	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.17	0.0238	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.17	0.0281	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.17	0.0184	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.17	0.0557	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.17	0.0452	
		SW8270 SIM	2-Methylnaphthalene	0.1	mg/Kg	0.031	0.031	
			Acenaphthene	ND	mg/Kg	0.031	0.021	
			Acenaphthylene	ND	mg/Kg	0.031	0.02	
			Anthracene	ND	mg/Kg	0.031	0.02	
			Benzo(a)anthracene	ND	mg/Kg	0.031	0.017	
			Benzo(a)pyrene	ND	mg/Kg	0.031	0.015	
			Benzo(b)fluoranthene	ND	mg/Kg	0.031	0.02	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.031	0.017	
			Benzo(k)fluoranthene	ND	mg/Kg	0.031	0.015	
			Chrysene	ND	mg/Kg	0.031	0.014	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.031	0.015	
			Dibenzofuran	ND	mg/Kg	0.031	0.031	
			Fluoranthene	ND	mg/Kg	0.031	0.016	
			Fluorene	ND	mg/Kg	0.031	0.023	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.031	0.021	
			Naphthalene	0.034	mg/Kg	0.031	0.029	
			Phenanthrene	ND	mg/Kg	0.031	0.02	
			Pyrene	ND	mg/Kg	0.031	0.018	
01NE28SD285	Sediment Depth 0 to 0.5 feet bgs	SW8081	4,4'-DDD	0.83	mg/Kg	0.11	0.0051	
			4,4'-DDE	ND	mg/Kg	0.082	0.0002	
			4,4'-DDT	ND	mg/Kg	0.022	0.0004	
			Aldrin	ND	mg/Kg	0.0028	0.0001	
			alpha-BHC	ND	mg/Kg	0.0028	0.0002	
			alpha-Chlordane	ND	mg/Kg	0.0028	9E-05	
			beta-BHC	0.0039	mg/Kg	0.0028	0.0002	
			delta-BHC	ND	mg/Kg	0.0028	0.0001	
			Dieldrin	ND	mg/Kg	0.016	0.0002	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SD285	Sediment Depth 0 to 0.5 feet bgs	SW8081	Endosulfan I	ND	mg/Kg	0.0028	0.0002	
			Endosulfan II	ND	mg/Kg	0.0057	0.0004	
			Endosulfan sulfate	ND	mg/Kg	0.056	0.0005	
			Endrin	ND	mg/Kg	0.0057	0.0002	
			Endrin aldehyde	ND	mg/Kg	0.035	0.0003	
			Endrin ketone	ND	mg/Kg	0.0057	0.0006	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0028	0.0001	
			gamma-Chlordane	ND	mg/Kg	0.026	0.0001	
			Heptachlor	ND	mg/Kg	0.0028	0.0001	
			Heptachlor epoxide	ND	mg/Kg	0.0028	0.0001	
			Methoxychlor	ND	mg/Kg	0.028	0.0017	
			Toxaphene	ND	mg/Kg	0.28	0.013	
01NE28SD292	Sediment Depth 0 to 0.5 feet bgs	SW8081	4,4'-DDD	ND	mg/Kg	0.0071	0.0002	
			4,4'-DDE	ND	mg/Kg	0.0065	0.0002	
			4,4'-DDT	ND	mg/Kg	0.005	0.0003	
			Aldrin	ND	mg/Kg	0.0021	7E-05	
			alpha-BHC	ND	mg/Kg	0.0021	0.0001	
			alpha-Chlordane	ND	mg/Kg	0.0021	6E-05	
			beta-BHC	ND	mg/Kg	0.0021	0.0001	
			delta-BHC	ND	mg/Kg	0.0021	9E-05	
			Dieldrin	ND	mg/Kg	0.0078	0.0001	
			Endosulfan I	ND	mg/Kg	0.0021	0.0001	
			Endosulfan II	ND	mg/Kg	0.0041	0.0003	
			Endosulfan sulfate	ND	mg/Kg	0.012	0.0004	
			Endrin	ND	mg/Kg	0.0041	0.0001	
			Endrin aldehyde	ND	mg/Kg	0.0041	0.0002	
			Endrin ketone	ND	mg/Kg	0.0041	0.0004	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0021	9E-05	
			gamma-Chlordane	ND	mg/Kg	0.0038	8E-05	
			Heptachlor	ND	mg/Kg	0.0021	9E-05	
			Heptachlor epoxide	ND	mg/Kg	0.0021	9E-05	
			Methoxychlor	ND	mg/Kg	0.021	0.0012	
			Toxaphene	ND	mg/Kg	0.21	0.0093	
01NE28SW111	Surface Wate	AK102	DRO	0.41	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.0003	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.0003	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.0003	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.0002	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.0003	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.0003	
01NE28SW112	Surface Wate	AK102	DRO	0.71	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.0003	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.0003	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.0003	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.0002	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.0003	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.0003	
01NE28SW113	Surface Wate	AK102	DRO	0.57	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.0003	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.0003	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.0003	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.0002	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.0003	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	

Summary of Analytical Results Site 28
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE28SW113	Surface Wate	SW8082	PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.0003	
01NE28SW114	Surface Wate	AK102	DRO	2.3	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.0003	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.0003	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.0003	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.0002	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.0003	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.0003	
01NE28SW115	Surface Wate	AK102	DRO	0.68	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.0003	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.0003	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.0003	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.0002	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.0003	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.0003	
01NE28SW116	Surface Wate	AK102	DRO	0.39	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.0003	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.0003	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.0003	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.0002	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.0003	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.0003	
01NE28SW211	Surface Wate	AK102	DRO	0.41	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.0003	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.0003	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.0003	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.0002	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.0003	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.0003	

Key:
DRO - diesel range organics
MDL - method detection limit
mg/L - milligram per liter
mg/Kg - milligram per kilogram
MRL - method reporting limit
ND - not detected
RRO - residual range organics
SIM - selected ion monitoring
VB - The analyte was detected in the assoicated blank and the sample indicating possible contamination.
VJ - The analyte was positively identified; the quantitaion is an estimation.
VQQ - The practical quantation limit is approximate due to QC or matrix effects.

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29FT101 Eggs	Fish Tissue	E160.1	Total Lipids	7.62	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.019	0.007	
			Arsenic	0.21	mg/Kg	0.19	0.07	
			Barium	0.04	mg/Kg	0.007	0.007	
			Cadmium	0.014	mg/Kg	0.019	0.007	VJ
			Lead	ND	mg/Kg	0.007	0.004	
			Nickel	ND	mg/Kg	0.07	0.01	
			Silver	0.027	mg/Kg	0.007	0.007	
			Vanadium	0.074	mg/Kg	0.074	0.007	
			Zinc	25.1	mg/Kg	0.19	0.03	
		SW8270 SIM	2-Methylnaphthalene	0.009	mg/Kg	0.005	0.0024	
			Acenaphthene	0.0092	mg/Kg	0.005	0.0012	
			Anthracene	0.011	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	0.012	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	0.009	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	0.0073	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	0.0089	mg/Kg	0.005	0.0014	VB
			Benzo(k)fluoranthene	0.018	mg/Kg	0.005	0.0018	
			Chrysene	0.012	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	0.0068	mg/Kg	0.005	0.0016	
			Fluoranthene	0.013	mg/Kg	0.005	0.0014	
			Fluorene	0.011	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	0.0043	mg/Kg	0.005	0.00053	VJ
			Naphthalene	0.0066	mg/Kg	0.005	0.0018	
			Phenanthrene	0.012	mg/Kg	0.005	0.0014	
			Pyrene	0.014	mg/Kg	0.005	0.0015	
		SW6010B	Chromium	ND	mg/Kg	0.2	0.1	
			Copper	3.01	mg/Kg	0.37	0.07	
		SW7471A	Mercury	0.006	mg/Kg	0.003	0.002	
		SW7741	Selenium	0.52	mg/Kg	0.07	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.0077	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
01NE29FT101 Fillet	Fish Tissue	E160.1	Total Lipids	5.25	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.012	0.005	
			Arsenic	0.65	mg/Kg	0.12	0.05	
			Barium	0.042	mg/Kg	0.005	0.005	
			Cadmium	0.009	mg/Kg	0.012	0.005	VJ
			Lead	0.005	mg/Kg	0.005	0.002	
			Nickel	0.03	mg/Kg	0.05	0.01	VJ
			Silver	ND	mg/Kg	0.005	0.005	
			Vanadium	0.017	mg/Kg	0.046	0.005	VJ
			Zinc	5.56	mg/Kg	0.12	0.02	
		SW8270 SIM	2-Methylnaphthalene	0.0065	mg/Kg	0.005	0.0024	
			Acenaphthene	0.0067	mg/Kg	0.005	0.0012	
			Anthracene	0.0072	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	0.0082	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	0.0059	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	0.004	mg/Kg	0.005	0.0012	VJ
			Benzo(g,h,i)perylene	0.0064	mg/Kg	0.005	0.0014	VJ
			Benzo(k)fluoranthene	0.012	mg/Kg	0.005	0.0018	
			Chrysene	0.0084	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	0.0041	mg/Kg	0.005	0.0016	VJ
			Fluoranthene	0.0093	mg/Kg	0.005	0.0014	
			Fluorene	0.0076	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	0.0027	mg/Kg	0.005	0.00053	VJ
			Naphthalene	0.0047	mg/Kg	0.005	0.0018	VJ
			Phenanthrene	0.0086	mg/Kg	0.005	0.0014	
			Pyrene	0.01	mg/Kg	0.005	0.0015	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29FT101 Fillet	Fish Tissue	SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	0.62	mg/Kg	0.23	0.05	
		SW7471A	Mercury	0.02	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.13	mg/Kg	0.05	0.01	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.011	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
01NE29FT101 Head	Fish Tissue	E160.1	Total Lipids	12.4	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.017	0.007	
			Arsenic	0.68	mg/Kg	0.17	0.07	
			Barium	0.403	mg/Kg	0.007	0.007	
			Cadmium	0.012	mg/Kg	0.017	0.007	VJ
			Lead	0.011	mg/Kg	0.007	0.003	
			Nickel	0.3	mg/Kg	0.07	0.01	
			Silver	ND	mg/Kg	0.007	0.007	
			Vanadium	0.064	mg/Kg	0.067	0.007	VJ
			Zinc	16.5	mg/Kg	0.17	0.03	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	0.0014	mg/Kg	0.005	0.0014	VJ
			Pyrene	ND	mg/Kg	0.005	0.0015	
		SW6010B	Chromium	ND	mg/Kg	0.2	0.1	
			Copper	0.62	mg/Kg	0.33	0.07	
		SW7471A	Mercury	0.016	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.15	mg/Kg	0.07	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.03	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
01NE29FT102 Eggs	Fish Tissue	E160.1	Total Lipids	7.93	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.019	0.008	
			Arsenic	0.29	mg/Kg	0.19	0.08	
			Barium	0.105	mg/Kg	0.008	0.008	
			Cadmium	0.042	mg/Kg	0.019	0.008	
			Lead	0.004	mg/Kg	0.008	0.004	VJ
			Nickel	ND	mg/Kg	0.08	0.01	
			Silver	0.025	mg/Kg	0.008	0.008	
			Vanadium	0.113	mg/Kg	0.078	0.008	
			Zinc	28.7	mg/Kg	0.19	0.03	
		SW8270 SIM	2-Methylnaphthalene	0.0026	mg/Kg	0.005	0.0024	VJ
			Acenaphthene	0.0022	mg/Kg	0.005	0.0012	VJ
			Anthracene	0.0025	mg/Kg	0.005	0.0015	VJ
			Benzo(a)anthracene	0.003	mg/Kg	0.005	0.0012	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29FT102 Eggs	Fish Tissue	SW8270 SIM	Benzo(b)fluoranthene	0.0015	mg/Kg	0.005	0.0012	VJ
			Benzo(g,h,i)perylene	0.0028	mg/Kg	0.005	0.0014	VJ
			Benzo(k)fluoranthene	0.004	mg/Kg	0.005	0.0018	VJ
			Chrysene	0.0031	mg/Kg	0.005	0.0018	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	0.0033	mg/Kg	0.005	0.0014	VJ
			Fluorene	0.0026	mg/Kg	0.005	0.0011	VJ
			Indeno(1,2,3-cd)pyrene	0.00087	mg/Kg	0.005	0.00053	VJ
			Naphthalene	0.0021	mg/Kg	0.005	0.0018	VJ
			Phenanthrene	0.0031	mg/Kg	0.005	0.0014	VJ
			Pyrene	0.0034	mg/Kg	0.005	0.0015	VJ
		SW6010B	Chromium	ND	mg/Kg	0.2	0.2	
			Copper	2.97	mg/Kg	0.39	0.08	
		SW7471A	Mercury	0.004	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.46	mg/Kg	0.08	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.013	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
01NE29FT102 Fillet	Fish Tissue	E160.1	Total Lipids	5.19	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.014	0.005	
			Arsenic	0.69	mg/Kg	0.14	0.05	
			Barium	0.021	mg/Kg	0.005	0.005	
			Cadmium	0.007	mg/Kg	0.014	0.005	VJ
			Lead	0.003	mg/Kg	0.005	0.003	VJ
			Nickel	ND	mg/Kg	0.05	0.01	
			Silver	ND	mg/Kg	0.005	0.005	
			Vanadium	0.06	mg/Kg	0.055	0.005	
			Zinc	7.08	mg/Kg	0.14	0.02	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	ND	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
		SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	0.98	mg/Kg	0.27	0.05	
		SW7471A	Mercury	0.015	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.13	mg/Kg	0.05	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.013	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
01NE29FT102 Head	Fish Tissue	E160.1	Total Lipids	11.3	PERCENT	0.05	0.05	
		E200.8	Antimony	0.01	mg/Kg	0.016	0.006	VJ
			Arsenic	0.6	mg/Kg	0.16	0.06	
			Barium	0.466	mg/Kg	0.006	0.006	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29FT102 Head	Fish Tissue	E200.8	Cadmium	0.012	mg/Kg	0.016	0.006	VJ
			Lead	0.007	mg/Kg	0.006	0.003	
			Nickel	1.02	mg/Kg	0.06	0.01	
			Silver	ND	mg/Kg	0.006	0.006	
			Vanadium	0.079	mg/Kg	0.065	0.006	
			Zinc	20.4	mg/Kg	0.16	0.03	
		SW8270 SIM	2-Methylnaphthalene	0.0028	mg/Kg	0.005	0.0024	VJ
			Acenaphthene	0.0025	mg/Kg	0.005	0.0012	VJ
			Anthracene	0.0025	mg/Kg	0.005	0.0015	VJ
			Benzo(a)anthracene	0.0023	mg/Kg	0.005	0.0012	VJ
			Benzo(a)pyrene	0.0021	mg/Kg	0.005	0.002	VJ
			Benzo(b)fluoranthene	0.002	mg/Kg	0.005	0.0012	VJ
			Benzo(g,h,i)perylene	0.0025	mg/Kg	0.005	0.0014	VB
			Benzo(k)fluoranthene	0.004	mg/Kg	0.005	0.0018	VJ
			Chrysene	0.0035	mg/Kg	0.005	0.0018	VJ
			Dibenzo(a,h)anthracene	0.0016	mg/Kg	0.005	0.0016	VJ
			Fluoranthene	0.0041	mg/Kg	0.005	0.0014	VJ
			Fluorene	0.0031	mg/Kg	0.005	0.0011	VJ
			Indeno(1,2,3-cd)pyrene	0.001	mg/Kg	0.005	0.00053	VJ
			Naphthalene	0.002	mg/Kg	0.005	0.0018	VJ
			Phenanthrene	0.0047	mg/Kg	0.005	0.0014	VJ
			Pyrene	0.0043	mg/Kg	0.005	0.0015	VJ
		SW6010B	Chromium	ND	mg/Kg	0.2	0.1	
			Copper	1.06	mg/Kg	0.32	0.06	
		SW7471A	Mercury	0.011	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.15	mg/Kg	0.06	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.023	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
01NE29FT103 Fillet	Fish Tissue	E160.1	Total Lipids	9.02	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.014	0.006	
			Arsenic	0.78	mg/Kg	0.14	0.06	
			Barium	0.032	mg/Kg	0.006	0.006	
			Cadmium	ND	mg/Kg	0.014	0.006	
			Lead	0.012	mg/Kg	0.006	0.003	
			Nickel	ND	mg/Kg	0.06	0.01	
			Silver	ND	mg/Kg	0.006	0.006	
			Vanadium	0.049	mg/Kg	0.057	0.006	VJ
			Zinc	7.07	mg/Kg	0.14	0.02	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	ND	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
		SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	0.71	mg/Kg	0.29	0.06	
		SW7471A	Mercury	0.019	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.14	mg/Kg	0.06	0.02	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29FT103 Fillet	Fish Tissue	SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.015	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
01NE29FT103 Remains	Fish Tissue	E160.1	Total Lipids	10.4	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.015	0.006	
			Arsenic	0.78	mg/Kg	0.15	0.06	
			Barium	0.119	mg/Kg	0.006	0.006	
			Cadmium	0.033	mg/Kg	0.015	0.006	
			Lead	0.007	mg/Kg	0.006	0.003	
			Nickel	1.12	mg/Kg	0.06	0.01	
			Silver	0.011	mg/Kg	0.006	0.006	
			Vanadium	0.059	mg/Kg	0.061	0.006	VJ
			Zinc	20.8	mg/Kg	0.15	0.02	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	ND	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
		SW6010B	Chromium	ND	mg/Kg	0.2	0.1	
			Copper	1.08	mg/Kg	0.3	0.06	
		SW7471A	Mercury	0.013	mg/Kg	0.003	0.002	
		SW7741	Selenium	0.19	mg/Kg	0.06	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.015	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
01NE29FT104 Fillet	Fish Tissue	E160.1	Total Lipids	7.39	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.013	0.005	
			Arsenic	0.71	mg/Kg	0.13	0.05	
			Barium	0.049	mg/Kg	0.005	0.005	
			Cadmium	0.006	mg/Kg	0.013	0.005	VJ
			Lead	0.005	mg/Kg	0.005	0.003	
			Nickel	0.03	mg/Kg	0.05	0.01	VJ
			Silver	ND	mg/Kg	0.005	0.005	
			Vanadium	0.048	mg/Kg	0.05	0.005	VJ
			Zinc	6.48	mg/Kg	0.13	0.02	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	0.0013	mg/Kg	0.005	0.0012	VJ
			Anthracene	0.0017	mg/Kg	0.005	0.0015	VJ
			Benzo(a)anthracene	0.0014	mg/Kg	0.005	0.0012	VJ
			Benzo(a)pyrene	0.0021	mg/Kg	0.005	0.002	VJ
			Benzo(b)fluoranthene	0.0012	mg/Kg	0.005	0.0012	VJ
			Benzo(g,h,i)perylene	0.004	mg/Kg	0.005	0.0014	VB
			Benzo(k)fluoranthene	0.0037	mg/Kg	0.005	0.0018	VJ
			Chrysene	0.0025	mg/Kg	0.005	0.0018	VJ

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29FT104 Fillet	Fish Tissue	SW8270 SIM	Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	0.0023	mg/Kg	0.005	0.0014	VJ
			Fluorene	0.0016	mg/Kg	0.005	0.0011	VJ
			Indeno(1,2,3-cd)pyrene	0.0011	mg/Kg	0.005	0.00053	VJ
			Naphthalene	0.0018	mg/Kg	0.005	0.0018	VJ
			Phenanthrene	0.0024	mg/Kg	0.005	0.0014	VJ
			Pyrene	0.0033	mg/Kg	0.005	0.0015	VJ
		SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	0.55	mg/Kg	0.25	0.05	
		SW7471A	Mercury	0.019	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.12	mg/Kg	0.05	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.016	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
01NE29FT105 Fillet	Fish Tissue	E160.1	Total Lipids	5.51	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.013	0.005	
			Arsenic	0.7	mg/Kg	0.13	0.05	
			Barium	0.02	mg/Kg	0.005	0.005	
			Cadmium	ND	mg/Kg	0.013	0.005	
			Lead	ND	mg/Kg	0.005	0.003	
			Nickel	ND	mg/Kg	0.05	0.01	
			Silver	ND	mg/Kg	0.005	0.005	
			Vanadium	0.045	mg/Kg	0.05	0.005	VJ
			Zinc	6.06	mg/Kg	0.13	0.02	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	0.0034	mg/Kg	0.005	0.0014	VJ
			Benzo(k)fluoranthene	0.0024	mg/Kg	0.005	0.0018	VJ
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	0.0017	mg/Kg	0.005	0.0014	VJ
			Fluorene	0.0012	mg/Kg	0.005	0.0011	VJ
			Indeno(1,2,3-cd)pyrene	0.00074	mg/Kg	0.005	0.00053	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	0.002	mg/Kg	0.005	0.0014	VJ
			Pyrene	0.0026	mg/Kg	0.005	0.0015	VJ
		SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	0.73	mg/Kg	0.25	0.05	
		SW7471A	Mercury	0.022	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.17	mg/Kg	0.05	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.0061	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
01NE29FT106 Fillet	Fish Tissue	E160.1	Total Lipids	7.99	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.014	0.006	
			Arsenic	0.53	mg/Kg	0.14	0.06	
			Barium	0.026	mg/Kg	0.006	0.006	
			Cadmium	ND	mg/Kg	0.014	0.006	
			Lead	ND	mg/Kg	0.006	0.003	
			Nickel	0.1	mg/Kg	0.06	0.01	
			Silver	ND	mg/Kg	0.006	0.006	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29FT106 Fillet	Fish Tissue	E200.8	Vanadium	0.039	mg/Kg	0.056	0.006	VJ
			Zinc	5.95	mg/Kg	0.14	0.02	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	
			Naphthalene	0.0019	mg/Kg	0.005	0.0018	VJ
			Phenanthrene	ND	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
		SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	0.67	mg/Kg	0.28	0.06	
		SW7471A	Mercury	0.014	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.13	mg/Kg	0.06	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.013	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
01NE29FT107 Fillet	Fish Tissue	E160.1	Total Lipids	5.68	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.013	0.005	
			Arsenic	0.5	mg/Kg	0.13	0.05	
			Barium	0.015	mg/Kg	0.005	0.005	
			Cadmium	0.006	mg/Kg	0.013	0.005	VJ
			Lead	ND	mg/Kg	0.005	0.003	
			Nickel	ND	mg/Kg	0.05	0.01	
			Silver	ND	mg/Kg	0.005	0.005	
			Vanadium	0.042	mg/Kg	0.052	0.005	VJ
			Zinc	6.32	mg/Kg	0.13	0.02	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	ND	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
		SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	0.65	mg/Kg	0.26	0.05	
		SW7471A	Mercury	0.017	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.14	mg/Kg	0.05	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29FT107 Fillet	Fish Tissue	SW8082	PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.0075	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
01NE29FT107 Remains	Fish Tissue	E160.1	Total Lipids	9.62	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.014	0.006	
			Arsenic	0.51	mg/Kg	0.14	0.06	
			Barium	0.152	mg/Kg	0.006	0.006	
			Cadmium	0.044	mg/Kg	0.014	0.006	
			Lead	0.003	mg/Kg	0.006	0.003	
			Nickel	0.07	mg/Kg	0.06	0.01	
			Silver	0.021	mg/Kg	0.006	0.006	
			Vanadium	0.045	mg/Kg	0.058	0.006	VJ
			Zinc	27.7	mg/Kg	0.14	0.02	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	0.002	mg/Kg	0.005	0.0012	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	0.0018	mg/Kg	0.005	0.0012	VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	0.0019	mg/Kg	0.005	0.0018	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	0.0013	mg/Kg	0.005	0.00053	VJ
			Naphthalene	0.002	mg/Kg	0.005	0.0018	VJ
			Phenanthrene	0.0024	mg/Kg	0.005	0.0014	VJ
			Pyrene	0.0031	mg/Kg	0.005	0.0015	VJ
		SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	1.3	mg/Kg	0.29	0.06	
		SW7471A	Mercury	0.015	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.2	mg/Kg	0.06	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.018	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
01NE29FT108 Egg	Fish Tissue	E160.1	Total Lipids	7.49	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.019	0.007	
			Arsenic	0.23	mg/Kg	0.19	0.07	
			Barium	0.034	mg/Kg	0.007	0.007	
			Cadmium	0.011	mg/Kg	0.019	0.007	VJ
			Lead	ND	mg/Kg	0.007	0.004	
			Nickel	ND	mg/Kg	0.07	0.01	
			Silver	0.036	mg/Kg	0.007	0.007	
			Vanadium	0.142	mg/Kg	0.074	0.007	
			Zinc	36.9	mg/Kg	0.19	0.03	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29FT108 Egg	Fish Tissue	SW8270 SIM	Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	ND	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
		SW6010B	Chromium	ND	mg/Kg	0.2	0.1	
			Copper	2.85	mg/Kg	0.37	0.07	
		SW7471A	Mercury	0.004	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.44	mg/Kg	0.07	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.0089	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	0.0041	mg/Kg	0.002	0.0007	
01NE29FT108 Fillet	Fish Tissue	E160.1	Total Lipids	5.83	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.013	0.005	
			Arsenic	0.54	mg/Kg	0.13	0.05	
			Barium	0.036	mg/Kg	0.005	0.005	
			Cadmium	ND	mg/Kg	0.013	0.005	
			Lead	0.006	mg/Kg	0.005	0.003	
			Nickel	ND	mg/Kg	0.05	0.01	
			Silver	ND	mg/Kg	0.005	0.005	
			Vanadium	0.046	mg/Kg	0.05	0.005	VJ
			Zinc	7.09	mg/Kg	0.13	0.02	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	0.0015	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
		SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	0.7	mg/Kg	0.25	0.05	
		SW7471A	Mercury	0.017	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.13	mg/Kg	0.05	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.011	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	0.0045	mg/Kg	0.002	0.0007	
01NE29SD114	Sediment	SW8270 SIM	2-Methylnaphthalene	0.15	mg/Kg	0.0084	0.0084	
			Acenaphthene	0.013	mg/Kg	0.0084	0.0057	VP,VJ
			Acenaphthylene	ND	mg/Kg	0.0084	0.0055	
			Anthracene	ND	mg/Kg	0.0084	0.0055	
			Benzo(a)anthracene	ND	mg/Kg	0.0084	0.0047	
			Benzo(a)pyrene	ND	mg/Kg	0.0084	0.004	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0084	0.0054	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0084	0.0047	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0084	0.0042	
			Chrysene	ND	mg/Kg	0.0084	0.0039	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0084	0.004	
			Dibenzofuran	ND	mg/Kg	0.0084	0.0084	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SD114	Sediment	SW8270 SIM	Fluoranthene	ND	mg/Kg	0.0084	0.0043	
			Fluorene	0.017	mg/Kg	0.0084	0.0063	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0084	0.0058	
			Naphthalene	0.031	mg/Kg	0.0084	0.0079	
			Phenanthrene	0.011	mg/Kg	0.0084	0.0054	
			Pyrene	ND	mg/Kg	0.0084	0.0048	
		AK102	DRO	410	mg/Kg	25	4	
		AK103	RRO	770	mg/Kg	50	50	VJ
		DU	Total Organic Carbon (TOC)	3.2	PERCENT	0.005	0.005	
		E160.3	Total Solids	59.3	PERCENT	0.01	0.01	
		SW6010B	Chromium	18	mg/Kg	1	0.3	
			Lead	17	mg/Kg	4	1	
			Zinc	53	mg/Kg	1	0.6	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.06	0.0161	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.12	0.0192	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.06	0.0083	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.06	0.0098	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.06	0.00644	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.06	0.0194	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.06	0.0158	
01NE29SD115	Sediment	SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.0029	0.0029	
			Acenaphthene	ND	mg/Kg	0.0029	0.002	
			Acenaphthylene	ND	mg/Kg	0.0029	0.0019	
			Anthracene	ND	mg/Kg	0.0029	0.0019	
			Benzo(a)anthracene	ND	mg/Kg	0.0029	0.0016	
			Benzo(a)pyrene	ND	mg/Kg	0.0029	0.0014	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0029	0.0019	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0029	0.0016	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0029	0.0015	
			Chrysene	ND	mg/Kg	0.0029	0.0014	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0029	0.0014	
			Dibenzofuran	ND	mg/Kg	0.0029	0.0029	
			Fluoranthene	ND	mg/Kg	0.0029	0.0015	
			Fluorene	ND	mg/Kg	0.0029	0.0022	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0029	0.002	
			Naphthalene	ND	mg/Kg	0.0029	0.0028	
			Phenanthrene	ND	mg/Kg	0.0029	0.0019	
			Pyrene	ND	mg/Kg	0.0029	0.0017	
		AK102	DRO	13	mg/Kg	5	0.68	
		AK103	RRO	26	mg/Kg	10	10	VJ
		DU	Total Organic Carbon (TOC)	0.74	PERCENT	0.005	0.005	
		E160.3	Total Solids	86.5	PERCENT	0.01	0.01	
		SW6010B	Chromium	11	mg/Kg	1	0.4	
			Lead	8	mg/Kg	6	2	
			Zinc	34	mg/Kg	2	0.9	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.05	0.0134	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.1	0.0161	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.05	0.00694	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.05	0.0082	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.05	0.00538	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.05	0.0163	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.05	0.0132	
01NE29SD116	Sediment	SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.0031	0.0031	
			Acenaphthene	ND	mg/Kg	0.0031	0.0021	
			Acenaphthylene	ND	mg/Kg	0.0031	0.002	
			Anthracene	ND	mg/Kg	0.0031	0.002	
			Benzo(a)anthracene	ND	mg/Kg	0.0031	0.0017	
			Benzo(a)pyrene	ND	mg/Kg	0.0031	0.0015	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0031	0.002	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0031	0.0017	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0031	0.0015	
			Chrysene	ND	mg/Kg	0.0031	0.0014	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0031	0.0015	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SD116	Sediment	SW8270 SIM	Dibenzofuran	ND	mg/Kg	0.0031	0.0031	
			Fluoranthene	ND	mg/Kg	0.0031	0.0016	
			Fluorene	ND	mg/Kg	0.0031	0.0023	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0031	0.0021	
			Naphthalene	ND	mg/Kg	0.0031	0.0029	
			Phenanthrene	ND	mg/Kg	0.0031	0.002	
			Pyrene	ND	mg/Kg	0.0031	0.0018	
		AK102	DRO	95	mg/Kg	5	0.71	
		AK103	RRO	250	mg/Kg	10	10	VJ
		DU	Total Organic Carbon (TOC)	4.7	PERCENT	0.005	0.005	
		E160.3	Total Solids	51.3	PERCENT	0.01	0.01	
		SW6010B	Chromium	15	mg/Kg	1	0.3	
			Lead	15	mg/Kg	4	1	
			Zinc	46	mg/Kg	1	0.6	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.052	0.014	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.1	0.0168	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.052	0.00723	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.052	0.00853	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.052	0.0056	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.052	0.0169	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.052	0.0137	
01NE29SD117	Sediment	SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.0022	0.0022	
			Acenaphthene	ND	mg/Kg	0.0022	0.0015	
			Acenaphthylene	ND	mg/Kg	0.0022	0.0015	
			Anthracene	ND	mg/Kg	0.0022	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.0022	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.0022	0.0011	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0022	0.0014	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0022	0.0012	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0022	0.0011	
			Chrysene	ND	mg/Kg	0.0022	0.001	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0022	0.0011	
			Dibenzofuran	ND	mg/Kg	0.0022	0.0022	
			Fluoranthene	ND	mg/Kg	0.0022	0.0011	
			Fluorene	ND	mg/Kg	0.0022	0.0017	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0022	0.0015	
			Naphthalene	ND	mg/Kg	0.0022	0.0021	
			Phenanthrene	ND	mg/Kg	0.0022	0.0014	
			Pyrene	ND	mg/Kg	0.0022	0.0013	
		AK102	DRO	9.3	mg/Kg	5	0.5	
		AK103	RRO	ND	mg/Kg	10	10	VQQ
		DU	Total Organic Carbon (TOC)	0.32	PERCENT	0.005	0.005	
		E160.3	Total Solids	87.1	PERCENT	0.01	0.01	
		SW6010B	Chromium	2.8	mg/Kg	0.5	0.1	
			Lead	8	mg/Kg	2	0.7	
			Zinc	26.6	mg/Kg	0.6	0.3	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.037	0.00992	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.074	0.0119	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.037	0.00513	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.037	0.00605	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.037	0.00397	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.037	0.012	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.037	0.00973	
01NE29SD118	Sediment	SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.008	0.008	
			Acenaphthene	ND	mg/Kg	0.008	0.0054	
			Acenaphthylene	ND	mg/Kg	0.008	0.0053	
			Anthracene	0.023	mg/Kg	0.008	0.0053	
			Benzo(a)anthracene	ND	mg/Kg	0.008	0.0044	
			Benzo(a)pyrene	ND	mg/Kg	0.008	0.0038	
			Benzo(b)fluoranthene	ND	mg/Kg	0.008	0.0051	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.008	0.0044	
			Benzo(k)fluoranthene	ND	mg/Kg	0.008	0.0039	
			Chrysene	ND	mg/Kg	0.008	0.0037	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SD118	Sediment	SW8270 SIM	Dibenzo(a,h)anthracene	ND	mg/Kg	0.008	0.0038	
			Dibenzofuran	ND	mg/Kg	0.008	0.008	
			Fluoranthene	0.01	mg/Kg	0.008	0.0041	
			Fluorene	ND	mg/Kg	0.008	0.006	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.008	0.0055	
			Naphthalene	ND	mg/Kg	0.008	0.0075	
			Phenanthrene	0.022	mg/Kg	0.008	0.0051	
			Pyrene	ND	mg/Kg	0.008	0.0045	
		AK102	DRO	18	mg/Kg	5	0.6	
		AK103	RRO	45	mg/Kg	10	10	VJ
		DU	Total Organic Carbon (TOC)	0.58	PERCENT	0.005	0.005	
		E160.3	Total Solids	81.8	PERCENT	0.01	0.01	
		SW6010B	Chromium	11.3	mg/Kg	0.9	0.2	
			Lead	11	mg/Kg	4	1	
			Zinc	35	mg/Kg	1	0.5	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.045	0.0119	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.089	0.0143	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.045	0.00617	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.045	0.00728	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.045	0.00478	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.045	0.0144	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.045	0.0117	
01NE29SD119	Sediment	SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.0066	0.0066	
			Acenaphthene	ND	mg/Kg	0.0066	0.0045	
			Acenaphthylene	ND	mg/Kg	0.0066	0.0044	
			Anthracene	ND	mg/Kg	0.0066	0.0044	
			Benzo(a)anthracene	ND	mg/Kg	0.0066	0.0037	
			Benzo(a)pyrene	ND	mg/Kg	0.0066	0.0032	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0066	0.0043	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0066	0.0037	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0066	0.0033	
			Chrysene	ND	mg/Kg	0.0066	0.0031	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0066	0.0032	
			Dibenzofuran	ND	mg/Kg	0.0066	0.0066	
			Fluoranthene	ND	mg/Kg	0.0066	0.0034	
			Fluorene	ND	mg/Kg	0.0066	0.005	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0066	0.0046	
			Naphthalene	ND	mg/Kg	0.0066	0.0063	
			Phenanthrene	ND	mg/Kg	0.0066	0.0043	
			Pyrene	ND	mg/Kg	0.0066	0.0038	
		AK102	DRO	15	mg/Kg	5	0.51	
		AK103	RRO	100	mg/Kg	10	10	VJ
		DU	Total Organic Carbon (TOC)	0.5	PERCENT	0.005	0.005	
		E160.3	Total Solids	86.5	PERCENT	0.01	0.01	
		SW6010B	Chromium	24.9	mg/Kg	0.6	0.1	
			Lead	24	mg/Kg	2	0.7	
			Zinc	43.5	mg/Kg	0.7	0.3	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.038	0.01	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.075	0.012	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.038	0.00518	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.038	0.00612	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.038	0.00402	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.038	0.0121	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.038	0.00984	
01NE29SD120	Sediment	AK102	DRO	27	mg/Kg	5	0.55	
		AK103	RRO	51	mg/Kg	10	10	VJ
		DU	Total Organic Carbon (TOC)	0.27	PERCENT	0.005	0.005	
		E160.3	Total Solids	86.4	PERCENT	0.01	0.01	
		SW6010B	Chromium	3.9	mg/Kg	0.6	0.2	
			Lead	5	mg/Kg	2	0.8	
			Zinc	14.4	mg/Kg	0.7	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.041	0.0108	VQQ
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.081	0.013	VQQ

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SD120	Sediment	SW8082	PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.041	0.0056	VQQ
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.041	0.00661	VQQ
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.041	0.00434	VQQ
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.041	0.0131	VQQ
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.041	0.0106	VQQ
01NE29SD121	Sediment	SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.0064	0.0064	
			Acenaphthene	ND	mg/Kg	0.0064	0.0043	
			Acenaphthylene	ND	mg/Kg	0.0064	0.0042	
			Anthracene	ND	mg/Kg	0.0064	0.0042	
			Benzo(a)anthracene	ND	mg/Kg	0.0064	0.0036	
			Benzo(a)pyrene	ND	mg/Kg	0.0064	0.0031	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0064	0.0041	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0064	0.0036	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0064	0.0032	
			Chrysene	ND	mg/Kg	0.0064	0.003	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0064	0.0031	
			Dibenzofuran	ND	mg/Kg	0.0064	0.0064	
			Fluoranthene	ND	mg/Kg	0.0064	0.0033	
			Fluorene	ND	mg/Kg	0.0064	0.0048	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0064	0.0044	
			Naphthalene	ND	mg/Kg	0.0064	0.0061	
			Phenanthrene	ND	mg/Kg	0.0064	0.0041	
			Pyrene	ND	mg/Kg	0.0064	0.0037	
		AK102	DRO	ND	mg/Kg	5	0.49	
		AK103	RRO	10	mg/Kg	10	10	VJ
		DU	Total Organic Carbon (TOC)	0.19	PERCENT	0.005	0.005	
		E160.3	Total Solids	87.4	PERCENT	0.01	0.01	
		SW6010B	Chromium	4.9	mg/Kg	0.6	0.1	
			Lead	5	mg/Kg	2	0.7	
			Zinc	19.7	mg/Kg	0.7	0.3	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.036	0.00967	VQQ
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.072	0.0116	VQQ
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.036	0.005	VQQ
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.036	0.0059	VQQ
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.036	0.00387	VQQ
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.036	0.0117	VQQ
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.036	0.00948	VQQ
01NE29SD122	Sediment	SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.007	0.007	
			Acenaphthene	ND	mg/Kg	0.007	0.0047	
			Acenaphthylene	ND	mg/Kg	0.007	0.0046	
			Anthracene	ND	mg/Kg	0.007	0.0046	
			Benzo(a)anthracene	ND	mg/Kg	0.007	0.0039	
			Benzo(a)pyrene	ND	mg/Kg	0.007	0.0033	
			Benzo(b)fluoranthene	ND	mg/Kg	0.007	0.0045	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.007	0.0039	
			Benzo(k)fluoranthene	ND	mg/Kg	0.007	0.0035	
			Chrysene	ND	mg/Kg	0.007	0.0032	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.007	0.0033	
			Dibenzofuran	ND	mg/Kg	0.007	0.007	
			Fluoranthene	ND	mg/Kg	0.007	0.0036	
			Fluorene	ND	mg/Kg	0.007	0.0052	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.007	0.0048	
			Naphthalene	ND	mg/Kg	0.007	0.0066	
			Phenanthrene	ND	mg/Kg	0.007	0.0045	
			Pyrene	ND	mg/Kg	0.007	0.004	
		AK102	DRO	37	mg/Kg	5	0.54	VLB
		AK103	RRO	50	mg/Kg	10	10	VLB
		DU	Total Organic Carbon (TOC)	1.1	PERCENT	0.005	0.005	
		E160.3	Total Solids	77.4	PERCENT	0.01	0.01	
		SW6010B	Chromium	2.9	mg/Kg	0.6	0.1	
			Lead	6	mg/Kg	2	0.7	
			Zinc	16.2	mg/Kg	0.7	0.3	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.04	0.0107	VQQ

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SD122	Sediment	SW8082	PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.08	0.0128	VQQ
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.04	0.00551	VQQ
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.04	0.00651	VQQ
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.04	0.00428	VQQ
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.04	0.0129	VQQ
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.04	0.0105	VQQ
01NE29SD123	Sediment	SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.026	0.026	
			Acenaphthene	ND	mg/Kg	0.026	0.018	
			Acenaphthylene	ND	mg/Kg	0.026	0.017	
			Anthracene	ND	mg/Kg	0.026	0.017	
			Benzo(a)anthracene	ND	mg/Kg	0.026	0.014	
			Benzo(a)pyrene	ND	mg/Kg	0.026	0.013	
			Benzo(b)fluoranthene	ND	mg/Kg	0.026	0.017	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.026	0.014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.026	0.013	
			Chrysene	ND	mg/Kg	0.026	0.012	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.026	0.013	
			Dibenzofuran	ND	mg/Kg	0.026	0.026	
			Fluoranthene	ND	mg/Kg	0.026	0.013	
			Fluorene	ND	mg/Kg	0.026	0.02	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.026	0.018	
			Naphthalene	ND	mg/Kg	0.026	0.025	
			Phenanthrene	ND	mg/Kg	0.026	0.017	
			Pyrene	ND	mg/Kg	0.026	0.015	
		AK102	DRO	44	mg/Kg	5.5	0.98	VLB
		AK103	Motor Oils	180	mg/Kg	11	11	VLB
		DU	Total Organic Carbon (TOC)	8.9	PERCENT	0.005	0.005	
		E160.3	Total Solids	25.9	PERCENT	0.01	0.01	
		SW6010B	Chromium	27	mg/Kg	1	0.3	
			Lead	23	mg/Kg	4	1	
			Zinc	69	mg/Kg	1	0.6	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.073	0.0195	VQQ
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.15	0.0233	VQQ
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.073	0.0101	VQQ
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.073	0.0119	VQQ
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.073	0.0078	VQQ
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.073	0.0235	VQQ
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.073	0.0191	VQQ
01NE29SD124	Sediment	SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.0087	0.0087	
			Acenaphthene	ND	mg/Kg	0.0087	0.0059	
			Acenaphthylene	0.01	mg/Kg	0.0087	0.0057	
			Anthracene	ND	mg/Kg	0.0087	0.0057	
			Benzo(a)anthracene	ND	mg/Kg	0.0087	0.0048	
			Benzo(a)pyrene	ND	mg/Kg	0.0087	0.0042	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0087	0.0056	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0087	0.0048	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0087	0.0043	
			Chrysene	ND	mg/Kg	0.0087	0.004	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0087	0.0042	
			Dibenzofuran	ND	mg/Kg	0.0087	0.0087	
			Fluoranthene	ND	mg/Kg	0.0087	0.0044	
			Fluorene	0.013	mg/Kg	0.0087	0.0065	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0087	0.006	
			Naphthalene	ND	mg/Kg	0.0087	0.0082	
			Phenanthrene	0.01	mg/Kg	0.0087	0.0056	
			Pyrene	ND	mg/Kg	0.0087	0.0049	
		AK102	DRO	1400	mg/Kg	25	3.3	
		AK103	RRO	580	mg/Kg	50	50	VJ
		DU	Total Organic Carbon (TOC)	5.2	PERCENT	0.005	0.005	
		E160.3	Total Solids	50.9	PERCENT	0.01	0.01	
		SW6010B	Chromium	7.3	mg/Kg	0.7	0.2	
			Lead	9	mg/Kg	3	0.9	
			Zinc	34.6	mg/Kg	0.8	0.4	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SD124	Sediment	SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.048	0.0129	VQQ
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.097	0.0154	VQQ
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.048	0.00666	VQQ
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.048	0.00786	VQQ
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.048	0.00516	VQQ
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.048	0.0156	VQQ
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.048	0.0126	VQQ
01NE29SD125	Sediment	SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.0085	0.0085	VQQ
			Acenaphthene	ND	mg/Kg	0.0085	0.0057	VQQ
			Acenaphthylene	ND	mg/Kg	0.0085	0.0056	VQQ
			Anthracene	ND	mg/Kg	0.0085	0.0056	VQQ
			Benzo(a)anthracene	ND	mg/Kg	0.0085	0.0047	VQQ
			Benzo(a)pyrene	ND	mg/Kg	0.0085	0.0041	VQQ
			Benzo(b)fluoranthene	ND	mg/Kg	0.0085	0.0055	VQQ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0085	0.0047	VQQ
			Benzo(k)fluoranthene	ND	mg/Kg	0.0085	0.0042	VQQ
			Chrysene	ND	mg/Kg	0.0085	0.0039	VQQ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0085	0.0041	VQQ
			Dibenzofuran	ND	mg/Kg	0.0085	0.0085	VQQ
			Fluoranthene	ND	mg/Kg	0.0085	0.0043	VQQ
			Fluorene	ND	mg/Kg	0.0085	0.0064	VQQ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0085	0.0058	VQQ
			Naphthalene	ND	mg/Kg	0.0085	0.008	VQQ
			Phenanthrene	ND	mg/Kg	0.0085	0.0055	VQQ
			Pyrene	ND	mg/Kg	0.0085	0.0048	VQQ
		AK102	DRO	150	mg/Kg	20	2.6	
		AK103	RRO	790	mg/Kg	40	40	VJ
		DU	Total Organic Carbon (TOC)	3.9	PERCENT	0.005	0.005	
		E160.3	Total Solids	65.1	PERCENT	0.01	0.01	
		SW6010B	Chromium	12.8	mg/Kg	0.7	0.2	
			Lead	9	mg/Kg	3	0.9	
			Zinc	32.1	mg/Kg	0.8	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.048	0.0128	VQQ
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.096	0.0154	VQQ
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.048	0.00663	VQQ
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.048	0.00783	VQQ
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.048	0.00514	VQQ
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.048	0.0155	VQQ
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.048	0.0126	VQQ
01NE29SD126	Sediment	SW8260 SIM	Benzene	ND	mg/Kg	0.0044	0.0044	
			Ethylbenzene	ND	mg/Kg	0.0044	0.0021	
			m,p-Xylene (sum)	ND	mg/Kg	0.0088	0.0088	
			o-Xylene	ND	mg/Kg	0.0044	0.0037	
			Toluene	0.0074	mg/Kg	0.0044	0.0042	VB
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.0083	0.0083	VQQ
			Acenaphthene	ND	mg/Kg	0.0083	0.0056	VQQ
			Acenaphthylene	ND	mg/Kg	0.0083	0.0055	VQQ
			Anthracene	ND	mg/Kg	0.0083	0.0055	VQQ
			Benzo(a)anthracene	ND	mg/Kg	0.0083	0.0046	VQQ
			Benzo(a)pyrene	ND	mg/Kg	0.0083	0.004	VQQ
			Benzo(b)fluoranthene	ND	mg/Kg	0.0083	0.0053	VQQ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0083	0.0046	VQQ
			Benzo(k)fluoranthene	ND	mg/Kg	0.0083	0.0041	VQQ
			Chrysene	ND	mg/Kg	0.0083	0.0039	VQQ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0083	0.004	VQQ
			Dibenzofuran	ND	mg/Kg	0.0083	0.0083	VQQ
			Fluoranthene	ND	mg/Kg	0.0083	0.0042	VQQ
			Fluorene	ND	mg/Kg	0.0083	0.0062	VQQ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0083	0.0057	VQQ
			Naphthalene	ND	mg/Kg	0.0083	0.0078	VQQ
			Phenanthrene	ND	mg/Kg	0.0083	0.0053	VQQ
			Pyrene	ND	mg/Kg	0.0083	0.0047	VQQ
		AK101	GRO	ND	mg/Kg	8.56	2.96	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SD126	Sediment	AK102	DRO	240	mg/Kg	25	3.2	
		AK103	RRO	1000	mg/Kg	50	50	VJ
		E200.8	Arsenic	3.3	mg/Kg	0.4	0.08	
		SW6010B	Aluminum	15900	mg/Kg	4	2	
			Antimony	ND	mg/Kg	10	3	
			Barium	115	mg/Kg	0.6	0.08	
			Beryllium	1.3	mg/Kg	0.2	0.06	
			Cadmium	ND	mg/Kg	0.4	0.2	
			Calcium	3270	mg/Kg	10	0.06	
			Chromium	22.9	mg/Kg	1	0.3	
			Cobalt	4.8	mg/Kg	0.6	0.1	
			Copper	10.9	mg/Kg	0.4	0.4	
			Iron	14900	mg/Kg	4	1	
			Lead	14	mg/Kg	4	1	
			Magnesium	3770	mg/Kg	4	2	
			Manganese	114	mg/Kg	0.2	0.06	
			Nickel	14	mg/Kg	2	0.7	
			Potassium	1140	mg/Kg	100	70	
			Selenium	ND	mg/Kg	10	2	
			Silver	ND	mg/Kg	0.6	0.1	
			Sodium	416	mg/Kg	10	3	
			Thallium	ND	mg/Kg	10	1	
			Vanadium	34.2	mg/Kg	0.6	0.3	
			Zinc	44	mg/Kg	1	0.6	
		SW7471A	Mercury	ND	mg/Kg	0.09	0.03	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.047	0.0125	VQQ
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.094	0.015	VQQ
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.047	0.00649	VQQ
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.047	0.00766	VQQ
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.047	0.00503	VQQ
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.047	0.0152	VQQ
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.047	0.0123	VQQ
01NE29SD127	Sediment	SW8260 SIM	Benzene	ND	mg/Kg	0.0029	0.0029	
			Ethylbenzene	ND	mg/Kg	0.0029	0.0014	
			m,p-Xylene (sum)	ND	mg/Kg	0.0057	0.0057	
			o-Xylene	ND	mg/Kg	0.0029	0.0024	
			Toluene	0.0097	mg/Kg	0.0029	0.0027	VB
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.0089	0.0089	
			Acenaphthene	ND	mg/Kg	0.0089	0.006	
			Acenaphthylene	ND	mg/Kg	0.0089	0.0059	
			Anthracene	ND	mg/Kg	0.0089	0.0059	
			Benzo(a)anthracene	ND	mg/Kg	0.0089	0.005	
			Benzo(a)pyrene	ND	mg/Kg	0.0089	0.0043	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0089	0.0058	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0089	0.005	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0089	0.0044	
			Chrysene	ND	mg/Kg	0.0089	0.0042	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0089	0.0043	
			Dibenzofuran	ND	mg/Kg	0.0089	0.0089	
			Fluoranthene	ND	mg/Kg	0.0089	0.0046	
			Fluorene	ND	mg/Kg	0.0089	0.0067	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0089	0.0062	
			Naphthalene	ND	mg/Kg	0.0089	0.0084	
			Phenanthrene	ND	mg/Kg	0.0089	0.0058	
			Pyrene	ND	mg/Kg	0.0089	0.0051	
		AK101	GRO	ND	mg/Kg	5.18	1.79	
		AK102	DRO	59	mg/Kg	5	0.68	
		AK103	RRO	440	mg/Kg	10	10	VJ
		E200.8	Arsenic	5.7	mg/Kg	0.3	0.05	
		SW6010B	Aluminum	12100	mg/Kg	3	2	
			Antimony	ND	mg/Kg	7	2	
			Barium	88.6	mg/Kg	0.4	0.06	
			Beryllium	0.7	mg/Kg	0.1	0.04	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SD127	Sediment	SW6010B	Cadmium	ND	mg/Kg	0.3	0.1	
			Calcium	2260	mg/Kg	7	0.04	
			Chromium	17.8	mg/Kg	0.7	0.2	
			Cobalt	7	mg/Kg	0.4	0.09	
			Copper	11	mg/Kg	0.3	0.3	
			Iron	9520	mg/Kg	3	0.9	
			Lead	9	mg/Kg	3	1	
			Magnesium	2650	mg/Kg	3	1	
			Manganese	80.1	mg/Kg	0.1	0.04	
			Nickel	13	mg/Kg	1	0.5	
			Potassium	930	mg/Kg	70	60	
			Selenium	ND	mg/Kg	7	1	
			Silver	ND	mg/Kg	0.4	0.1	
			Sodium	530	mg/Kg	7	2	
			Thallium	ND	mg/Kg	7	0.9	
			Vanadium	30	mg/Kg	0.4	0.2	
			Zinc	31.4	mg/Kg	0.9	0.4	
		SW7471A	Mercury	ND	mg/Kg	0.06	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.05	0.0135	VQQ
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.1	0.0161	VQQ
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.05	0.00696	VQQ
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.05	0.00822	VQQ
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.05	0.0054	VQQ
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.05	0.0163	VQQ
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.05	0.0132	VQQ
01NE29SD128	Sediment	SW8260 SIM	Benzene	ND	mg/Kg	0.0033	0.0033	
			Ethylbenzene	ND	mg/Kg	0.0033	0.0016	
			m,p-Xylene (sum)	ND	mg/Kg	0.0065	0.0065	
			o-Xylene	ND	mg/Kg	0.0033	0.0028	
			Toluene	0.0064	mg/Kg	0.0033	0.0031	VB
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.0087	0.0087	VQQ
			Acenaphthene	ND	mg/Kg	0.0087	0.0059	VQQ
			Acenaphthylene	ND	mg/Kg	0.0087	0.0058	VQQ
			Anthracene	ND	mg/Kg	0.0087	0.0058	VQQ
			Benzo(a)anthracene	ND	mg/Kg	0.0087	0.0048	VQQ
			Benzo(a)pyrene	ND	mg/Kg	0.0087	0.0042	VQQ
			Benzo(b)fluoranthene	ND	mg/Kg	0.0087	0.0056	VQQ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0087	0.0048	VQQ
			Benzo(k)fluoranthene	ND	mg/Kg	0.0087	0.0043	VQQ
			Chrysene	ND	mg/Kg	0.0087	0.0041	VQQ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0087	0.0042	VQQ
			Dibenzofuran	ND	mg/Kg	0.0087	0.0087	VQQ
			Fluoranthene	ND	mg/Kg	0.0087	0.0044	VQQ
			Fluorene	ND	mg/Kg	0.0087	0.0065	VQQ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0087	0.006	VQQ
			Naphthalene	ND	mg/Kg	0.0087	0.0082	VQQ
			Phenanthrene	ND	mg/Kg	0.0087	0.0056	VQQ
			Pyrene	ND	mg/Kg	0.0087	0.005	VQQ
		AK101	GRO	ND	mg/Kg	5.09	1.76	
		AK102	DRO	180	mg/Kg	25	3.3	
		AK103	RRO	1000	mg/Kg	50	50	VJ
		E200.8	Arsenic	4.8	mg/Kg	0.5	0.09	
		SW6010B	Aluminum	13100	mg/Kg	3	2	
			Antimony	ND	mg/Kg	7	2	
			Barium	104	mg/Kg	0.4	0.05	
			Beryllium	0.3	mg/Kg	0.1	0.04	
			Cadmium	ND	mg/Kg	0.3	0.1	
			Calcium	1890	mg/Kg	7	0.04	
			Chromium	20.8	mg/Kg	0.7	0.2	
			Cobalt	3.9	mg/Kg	0.4	0.08	
			Copper	10.8	mg/Kg	0.3	0.3	
			Iron	12900	mg/Kg	3	0.8	
			Lead	8	mg/Kg	3	0.9	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SD128	Sediment	SW6010B	Magnesium	3290	mg/Kg	3	1	
			Manganese	90.1	mg/Kg	0.1	0.04	
			Nickel	13	mg/Kg	1	0.5	
			Potassium	1020	mg/Kg	70	50	
			Selenium	ND	mg/Kg	7	1	
			Silver	ND	mg/Kg	0.4	0.09	
			Sodium	713	mg/Kg	7	2	
			Thallium	ND	mg/Kg	7	0.8	
			Vanadium	35	mg/Kg	0.4	0.2	
			Zinc	33.1	mg/Kg	0.8	0.4	
		SW7471A	Mercury	0.05	mg/Kg	0.05	0.01	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.049	0.013	VQQ
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.098	0.0156	VQQ
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.049	0.00673	VQQ
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.049	0.00795	VQQ
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.049	0.00522	VQQ
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.049	0.0158	VQQ
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.049	0.0128	VQQ
01NE29SD129	Sediment	SW8260 SIM	Benzene	ND	mg/Kg	0.0012	0.0012	
			Ethylbenzene	ND	mg/Kg	0.0012	0.00061	
			m,p-Xylene (sum)	0.0032	mg/Kg	0.0025	0.0025	VB
			o-Xylene	ND	mg/Kg	0.0012	0.0011	
			Toluene	0.0047	mg/Kg	0.0012	0.0012	VB
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.0068	0.0068	
			Acenaphthene	ND	mg/Kg	0.0068	0.0046	
			Acenaphthylene	ND	mg/Kg	0.0068	0.0045	
			Anthracene	ND	mg/Kg	0.0068	0.0045	
			Benzo(a)anthracene	ND	mg/Kg	0.0068	0.0038	
			Benzo(a)pyrene	ND	mg/Kg	0.0068	0.0032	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0068	0.0044	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0068	0.0038	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0068	0.0033	
			Chrysene	ND	mg/Kg	0.0068	0.0031	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0068	0.0032	
			Dibenzofuran	ND	mg/Kg	0.0068	0.0068	
			Fluoranthene	ND	mg/Kg	0.0068	0.0034	
			Fluorene	ND	mg/Kg	0.0068	0.0051	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0068	0.0047	
			Naphthalene	ND	mg/Kg	0.0068	0.0064	
			Phenanthrene	ND	mg/Kg	0.0068	0.0044	
			Pyrene	ND	mg/Kg	0.0068	0.0039	
		AK101	GRO	ND	mg/Kg	5	0.739	
		AK102	DRO	15	mg/Kg	5	0.52	
		AK103	RRO	73	mg/Kg	10	10	VJ
		E200.8	Arsenic	2.8	mg/Kg	0.2	0.05	
		SW6010B	Aluminum	4820	mg/Kg	2	1	
			Antimony	ND	mg/Kg	5	2	
			Barium	39.8	mg/Kg	0.3	0.04	
			Beryllium	0.2	mg/Kg	0.1	0.03	
			Cadmium	ND	mg/Kg	0.2	0.09	
			Calcium	1580	mg/Kg	5	0.03	
			Chromium	6.1	mg/Kg	0.5	0.1	
			Cobalt	2	mg/Kg	0.3	0.07	
			Copper	1.8	mg/Kg	0.2	0.2	
			Iron	8720	mg/Kg	2	0.7	
			Lead	4	mg/Kg	2	0.7	
			Magnesium	2030	mg/Kg	2	0.9	
			Manganese	96.1	mg/Kg	0.1	0.03	
			Nickel	5	mg/Kg	1	0.4	
			Potassium	1360	mg/Kg	50	40	
			Selenium	ND	mg/Kg	5	1	
			Silver	ND	mg/Kg	0.3	0.08	
			Sodium	577	mg/Kg	5	2	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SD129	Sediment	SW6010B	Thallium	ND	mg/Kg	5	0.7	
			Vanadium	16.7	mg/Kg	0.3	0.2	
			Zinc	17.9	mg/Kg	0.7	0.3	
		SW7471A	Mercury	ND	mg/Kg	0.04	0.01	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.038	0.0102	VQQ
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.077	0.0123	VQQ
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.038	0.0053	VQQ
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.038	0.00626	VQQ
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.038	0.00411	VQQ
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.038	0.0124	VQQ
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.038	0.0101	VQQ
01NE29SD214	Sediment	SW8270 SIM	2-Methylnaphthalene	0.13	mg/Kg	0.0038	0.0038	
			Acenaphthene	0.014	mg/Kg	0.0038	0.0026	VP,VJ
			Acenaphthylene	ND	mg/Kg	0.0038	0.0025	
			Anthracene	ND	mg/Kg	0.0038	0.0025	
			Benzo(a)anthracene	ND	mg/Kg	0.0038	0.0021	
			Benzo(a)pyrene	ND	mg/Kg	0.0038	0.0018	
			Benzo(b)fluoranthene	0.0042	mg/Kg	0.0038	0.0025	VP,VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0038	0.0021	
			Benzo(k)fluoranthene	0.0042	mg/Kg	0.0038	0.0019	VP,VJ
			Chrysene	0.0053	mg/Kg	0.0038	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0038	0.0018	
			Dibenzofuran	0.013	mg/Kg	0.0038	0.0038	
			Fluoranthene	0.036	mg/Kg	0.0038	0.0019	
			Fluorene	0.026	mg/Kg	0.0038	0.0029	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0038	0.0026	
			Naphthalene	0.026	mg/Kg	0.0038	0.0036	
			Phenanthrene	0.063	mg/Kg	0.0038	0.0025	
			Pyrene	0.017	mg/Kg	0.0038	0.0022	
		AK102	DRO	380	mg/Kg	25	4.4	
		AK103	RRO	810	mg/Kg	50	50	VJ
		SW6010B	Chromium	16	mg/Kg	1	0.3	
			Lead	14	mg/Kg	4	1	
			Zinc	44	mg/Kg	1	0.6	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.065	0.0174	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.13	0.0208	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.065	0.00899	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.065	0.0106	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.065	0.00697	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.065	0.021	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.065	0.0171	
01NE29SD225	Sediment	SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.0091	0.0091	
			Acenaphthene	ND	mg/Kg	0.0091	0.0062	
			Acenaphthylene	ND	mg/Kg	0.0091	0.006	
			Anthracene	ND	mg/Kg	0.0091	0.006	
			Benzo(a)anthracene	ND	mg/Kg	0.0091	0.0051	
			Benzo(a)pyrene	ND	mg/Kg	0.0091	0.0044	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0091	0.0059	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0091	0.0051	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0091	0.0045	
			Chrysene	ND	mg/Kg	0.0091	0.0043	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0091	0.0044	
			Dibenzofuran	ND	mg/Kg	0.0091	0.0091	
			Fluoranthene	ND	mg/Kg	0.0091	0.0047	
			Fluorene	ND	mg/Kg	0.0091	0.0069	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0091	0.0063	
			Naphthalene	ND	mg/Kg	0.0091	0.0086	
			Phenanthrene	ND	mg/Kg	0.0091	0.0059	
			Pyrene	ND	mg/Kg	0.0091	0.0052	
		AK102	DRO	150	mg/Kg	20	2.8	
		AK103	RRO	680	mg/Kg	40	40	VJ
		SW6010B	Chromium	12.5	mg/Kg	0.6	0.2	
			Lead	7	mg/Kg	3	0.8	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SD225	Sediment	SW6010B	Zinc	27.5	mg/Kg	0.8	0.4	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.052	0.0138	VQQ
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.1	0.0165	VQQ
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.052	0.00712	VQQ
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.052	0.00841	VQQ
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.052	0.00552	VQQ
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.052	0.0167	VQQ
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.052	0.0135	VQQ
01NE29SW114	Surface Water	SW8270 SIM	2-Methylnaphthalene	ND	mg/L	0.00005	0.00005	
			Acenaphthene	ND	mg/L	0.00005	0.00004	
			Acenaphthylene	ND	mg/L	0.00005	0.00005	
			Anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)pyrene	ND	mg/L	0.00005	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	0.00005	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	0.00005	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	0.00005	0.00002	
			Chrysene	ND	mg/L	0.00005	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	0.00005	0.00005	
			Dibenzofuran	ND	mg/L	0.00005	0.00005	
			Fluoranthene	ND	mg/L	0.00005	0.00005	
			Fluorene	ND	mg/L	0.00005	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.00005	0.00004	
			Naphthalene	ND	mg/L	0.00005	0.00005	
			Phenanthrene	ND	mg/L	0.00005	0.00004	
			Pyrene	ND	mg/L	0.00005	0.00005	
		AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW6010B	Aluminum	0.04	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.005	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	7.62	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	
			Cobalt	ND	mg/L	0.003	0.0006	
			Copper	ND	mg/L	0.002	0.002	
			Iron	0.31	mg/L	0.02	0.0063	
			Magnesium	1.98	mg/L	0.02	0.0084	
			Manganese	0.017	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	0.68	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	14.2	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	ND	mg/L	0.006	0.0029	
		SW7060A	Arsenic	ND	mg/L	0.001	0.00054	
		SW7421	Lead	ND	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/L	0.002	0.0003	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SW114	Surface Water	SW8260	1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.00283	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.00113	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.00138	
			Acetone	ND	mg/L	0.005	0.00304	
			Acrolein	ND	mg/L	0.05	0.00414	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SW114	Surface Water	SW8260	Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE29SW115	Surface Water	SW8270 SIM	2-Methylnaphthalene	ND	mg/L	0.00005	0.00005	
			Acenaphthene	ND	mg/L	0.00005	0.00004	
			Acenaphthylene	ND	mg/L	0.00005	0.00005	
			Anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)pyrene	ND	mg/L	0.00005	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	0.00005	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	0.00005	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	0.00005	0.00002	
			Chrysene	ND	mg/L	0.00005	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	0.00005	0.00005	
			Dibenzofuran	ND	mg/L	0.00005	0.00005	
			Fluoranthene	ND	mg/L	0.00005	0.00005	
			Fluorene	ND	mg/L	0.00005	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.00005	0.00004	
			Naphthalene	ND	mg/L	0.00005	0.00005	
			Phenanthrene	ND	mg/L	0.00005	0.00004	
			Pyrene	ND	mg/L	0.00005	0.00005	
		AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW6010B	Aluminum	0.04	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.005	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	7.44	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	
			Cobalt	ND	mg/L	0.003	0.0006	
			Copper	ND	mg/L	0.002	0.002	
			Iron	0.36	mg/L	0.02	0.0063	
			Magnesium	2.03	mg/L	0.02	0.0084	
			Manganese	0.027	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	ND	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	14.5	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	ND	mg/L	0.006	0.0029	
		SW7060A	Arsenic	ND	mg/L	0.001	0.00054	
		SW7421	Lead	ND	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SW115	Surface Water	SW8260	1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.00283	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.00113	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.00138	
			Acetone	ND	mg/L	0.005	0.00304	
			Acrolein	ND	mg/L	0.05	0.00414	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SW116	Surface Water	SW8270 SIM	2-Methylnaphthalene	ND	mg/L	0.00005	0.00005	
			Acenaphthene	ND	mg/L	0.00005	0.00004	
			Acenaphthylene	ND	mg/L	0.00005	0.00005	
			Anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)pyrene	ND	mg/L	0.00005	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	0.00005	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	0.00005	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	0.00005	0.00002	
			Chrysene	ND	mg/L	0.00005	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	0.00005	0.00005	
			Dibenzofuran	ND	mg/L	0.00005	0.00005	
			Fluoranthene	ND	mg/L	0.00005	0.00005	
			Fluorene	ND	mg/L	0.00005	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.00005	0.00004	
			Naphthalene	ND	mg/L	0.00005	0.00005	
			Phenanthrene	ND	mg/L	0.00005	0.00004	
			Pyrene	ND	mg/L	0.00005	0.00005	
		AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW6010B	Aluminum	0.04	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.005	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	6.9	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	
			Cobalt	ND	mg/L	0.003	0.0006	
			Copper	ND	mg/L	0.002	0.002	
			Iron	0.32	mg/L	0.02	0.0063	
			Magnesium	2.4	mg/L	0.02	0.0084	
			Manganese	0.021	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	0.74	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	25.3	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	ND	mg/L	0.006	0.0029	
		SW7060A	Arsenic	ND	mg/L	0.001	0.00054	
		SW7421	Lead	ND	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SW116	Surface Water	SW8260	1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.00283	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.00113	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.00138	
			Acetone	ND	mg/L	0.005	0.00304	
			Acrolein	ND	mg/L	0.05	0.00414	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE29SW117	Surface Water	SW8270 SIM	2-Methylnaphthalene	ND	mg/L	0.00005	0.00005	
			Acenaphthene	ND	mg/L	0.00005	0.00004	
			Acenaphthylene	ND	mg/L	0.00005	0.00005	
			Anthracene	ND	mg/L	0.00005	0.00002	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SW117	Surface Water	SW8270 SIM	Benzo(a)anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)pyrene	ND	mg/L	0.00005	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	0.00005	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	0.00005	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	0.00005	0.00002	
			Chrysene	ND	mg/L	0.00005	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	0.00005	0.00005	
			Dibenzofuran	ND	mg/L	0.00005	0.00005	
			Fluoranthene	ND	mg/L	0.00005	0.00005	
			Fluorene	ND	mg/L	0.00005	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.00005	0.00004	
			Naphthalene	ND	mg/L	0.00005	0.00005	
			Phenanthrene	ND	mg/L	0.00005	0.00004	
			Pyrene	ND	mg/L	0.00005	0.00005	
		AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW6010B	Aluminum	0.04	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.005	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	7.17	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	
			Cobalt	ND	mg/L	0.003	0.0006	
			Copper	ND	mg/L	0.002	0.002	
			Iron	0.4	mg/L	0.02	0.0063	
			Magnesium	2.55	mg/L	0.02	0.0084	
			Manganese	0.021	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	0.89	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	27.9	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	ND	mg/L	0.006	0.0029	
		SW7060A	Arsenic	ND	mg/L	0.001	0.00054	
		SW7421	Lead	ND	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SW117	Surface Water	SW8260	1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.00283	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.00113	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.00138	
			Acetone	ND	mg/L	0.005	0.00304	
			Acrolein	ND	mg/L	0.05	0.00414	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE29SW217	Surface Water	SW8270 SIM	2-Methylnaphthalene	ND	mg/L	0.00005	0.00005	
			Acenaphthene	ND	mg/L	0.00005	0.00004	
			Acenaphthylene	ND	mg/L	0.00005	0.00005	
			Anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)pyrene	ND	mg/L	0.00005	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	0.00005	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	0.00005	0.00004	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SW217	Surface Water	SW8270 SIM	Benzo(k)fluoranthene	ND	mg/L	0.00005	0.00002	
			Chrysene	ND	mg/L	0.00005	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	0.00005	0.00005	
			Dibenzofuran	ND	mg/L	0.00005	0.00005	
			Fluoranthene	ND	mg/L	0.00005	0.00005	
			Fluorene	ND	mg/L	0.00005	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.00005	0.00004	
			Naphthalene	ND	mg/L	0.00005	0.00005	
			Phenanthrene	ND	mg/L	0.00005	0.00004	
			Pyrene	ND	mg/L	0.00005	0.00005	
		AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW6010B	Aluminum	0.04	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.005	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	7.25	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	
			Cobalt	ND	mg/L	0.003	0.0006	
			Copper	ND	mg/L	0.002	0.002	
			Iron	0.35	mg/L	0.02	0.0063	
			Magnesium	2.6	mg/L	0.02	0.0084	
			Manganese	0.021	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	1.12	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	29.1	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	0.013	mg/L	0.006	0.0029	
		SW7060A	Arsenic	ND	mg/L	0.001	0.00054	
		SW7421	Lead	ND	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/L	0.001	0.00027	
			PCB-1221 (Aroclor 1221)	ND	mg/L	0.002	0.00025	
			PCB-1232 (Aroclor 1232)	ND	mg/L	0.001	0.00026	
			PCB-1242 (Aroclor 1242)	ND	mg/L	0.001	0.00021	
			PCB-1248 (Aroclor 1248)	ND	mg/L	0.001	0.00025	
			PCB-1254 (Aroclor 1254)	ND	mg/L	0.001	0.0003	
			PCB-1260 (Aroclor 1260)	ND	mg/L	0.001	0.00032	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroeth	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	

Summary of Analytical Results Site 29
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE29SW217	Surface Water	SW8260	1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.00283	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.00113	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.00138	
			Acetone	ND	mg/L	0.005	0.00304	
			Acrolein	ND	mg/L	0.05	0.00414	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	

Key:
DRO - diesel range organics
GRO - gasoline range organics
MDL - method detection limit
PCB - polychlorinated biphenyls
mg/L - milligram per liter
mg/Kg - milligram per kilogram
MRL - method reporting limit
ND - not detected
RRO - residual range organics
SIM - selected ion monitoring
VB - The analyte was detected in the assoicated blank and the sample indicating possible contamination.
VJ - The analyte was positively identified; the quantitaion is an estimation.
VQQ - The practical quantation limit is approximate due to QC or matrix effects.

Summary of Analytical Results Site 30
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE30FT101 Eggs	Fish Tissue Dolly Varden	E160.1	Total Lipids	8.38	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.019	0.008	
			Arsenic	0.23	mg/Kg	0.19	0.08	
			Barium	0.119	mg/Kg	0.008	0.008	
			Cadmium	0.041	mg/Kg	0.019	0.008	
			Lead	0.027	mg/Kg	0.008	0.004	
			Nickel	0.03	mg/Kg	0.08	0.01	VJ
			Silver	0.026	mg/Kg	0.008	0.008	
			Vanadium	0.122	mg/Kg	0.076	0.008	
			Zinc	30.9	mg/Kg	0.19	0.03	
		SW6010B	Chromium	ND	mg/Kg	0.2	0.2	
			Copper	3.25	mg/Kg	0.38	0.08	
		SW7471A	Mercury	0.006	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.47	mg/Kg	0.08	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.0091	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	ND	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
01NE30FT101 Fillet	Fish Tissue Dolly Varden	E160.1	Total Lipids	5.5	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.013	0.005	
			Arsenic	0.72	mg/Kg	0.13	0.05	
			Barium	0.061	mg/Kg	0.005	0.005	
			Cadmium	0.007	mg/Kg	0.013	0.005	VJ
			Lead	0.004	mg/Kg	0.005	0.003	VJ
			Nickel	0.04	mg/Kg	0.05	0.01	VJ
			Silver	ND	mg/Kg	0.005	0.005	
			Vanadium	0.063	mg/Kg	0.05	0.005	
			Zinc	6.69	mg/Kg	0.13	0.02	
		SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	0.59	mg/Kg	0.25	0.05	
		SW7471A	Mercury	0.032	mg/Kg	0.003	0.002	
		SW7741	Selenium	0.13	mg/Kg	0.05	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.01	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	

Summary of Analytical Results Site 30
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE30FT101 Fillet	Fish Tissue Dolly Varden	SW8270 SIM	Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	ND	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
01NE30FT101 Head	Fish Tissue Dolly Varden	E160.1	Total Lipids	14	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.018	0.007	
			Arsenic	0.62	mg/Kg	0.18	0.07	
			Barium	1.62	mg/Kg	0.007	0.007	
			Cadmium	0.01	mg/Kg	0.018	0.007	VJ
			Lead	0.02	mg/Kg	0.007	0.004	
			Nickel	0.55	mg/Kg	0.07	0.01	
			Silver	ND	mg/Kg	0.007	0.007	
			Vanadium	0.101	mg/Kg	0.071	0.007	
			Zinc	19.7	mg/Kg	0.18	0.03	
		SW6010B	Chromium	ND	mg/Kg	0.2	0.1	
			Copper	0.9	mg/Kg	0.36	0.07	
		SW7471A	Mercury	0.017	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.14	mg/Kg	0.07	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.01	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	0.0059	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	ND	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
01NE30FT102 Fillet	Fish Tissue Dolly Varden	E160.1	Total Lipids	4.31	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.013	0.005	
			Arsenic	0.94	mg/Kg	0.13	0.05	
			Barium	0.032	mg/Kg	0.005	0.005	
			Cadmium	0.008	mg/Kg	0.013	0.005	VJ
			Lead	0.004	mg/Kg	0.005	0.003	VJ
			Nickel	0.03	mg/Kg	0.05	0.01	VJ
			Silver	ND	mg/Kg	0.005	0.005	
			Vanadium	0.068	mg/Kg	0.052	0.005	
			Zinc	6.41	mg/Kg	0.13	0.02	
		SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	0.63	mg/Kg	0.26	0.05	
		SW7471A	Mercury	0.02	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.16	mg/Kg	0.05	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	

Summary of Analytical Results Site 30
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE30FT102 Fillet	Fish Tissue Dolly Varden	SW8082	PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.011	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	ND	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
1NE30FT102 Remain	Fish Tissue Dolly Varden	E160.1	Total Lipids	7.05	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.014	0.005	
			Arsenic	0.66	mg/Kg	0.14	0.05	
			Barium	0.216	mg/Kg	0.005	0.005	
			Cadmium	0.041	mg/Kg	0.014	0.005	
			Lead	0.008	mg/Kg	0.005	0.003	
			Nickel	0.28	mg/Kg	0.05	0.01	
			Silver	0.008	mg/Kg	0.005	0.005	
			Vanadium	0.09	mg/Kg	0.055	0.005	
			Zinc	25.7	mg/Kg	0.14	0.02	
		SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	1.01	mg/Kg	0.27	0.05	
		SW7471A	Mercury	0.016	mg/Kg	0.003	0.002	
		SW7741	Selenium	0.2	mg/Kg	0.05	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.0068	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	0.0018	mg/Kg	0.002	0.0007	VJ
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	ND	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
01NE30FT103 Fillet	Fish Tissue Dolly Varden	E160.1	Total Lipids	6.53	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.014	0.005	
			Arsenic	0.75	mg/Kg	0.14	0.05	
			Barium	0.024	mg/Kg	0.005	0.005	
			Cadmium	ND	mg/Kg	0.014	0.005	
			Lead	0.004	mg/Kg	0.005	0.003	VJ
			Nickel	ND	mg/Kg	0.05	0.01	

Summary of Analytical Results Site 30
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE30FT103 Fillet	Fish Tissue Dolly Varden	E200.8	Silver	ND	mg/Kg	0.005	0.005	
			Vanadium	0.046	mg/Kg	0.054	0.005	VJ
			Zinc	5.85	mg/Kg	0.14	0.02	
		SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	0.76	mg/Kg	0.27	0.05	
		SW7471A	Mercury	0.014	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.15	mg/Kg	0.05	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.011	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	ND	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
01NE30FT104 Head	Fish Tissue Pink Salmon	E160.1	Total Lipids	3.4	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.012	0.005	
			Arsenic	0.62	mg/Kg	0.12	0.05	
			Barium	0.226	mg/Kg	0.005	0.005	
			Cadmium	0.015	mg/Kg	0.012	0.005	
			Lead	0.008	mg/Kg	0.005	0.002	
			Nickel	0.77	mg/Kg	0.05	0.01	
			Silver	ND	mg/Kg	0.005	0.005	
			Vanadium	0.13	mg/Kg	0.048	0.005	
			Zinc	21.5	mg/Kg	0.12	0.02	
		SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	0.95	mg/Kg	0.24	0.05	
		SW7471A	Mercury	0.012	mg/Kg	0.003	0.002	
		SW7741	Selenium	0.18	mg/Kg	0.05	0.01	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.028	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	

Summary of Analytical Results Site 30
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE30FT104 Head	Fish Tissue Pink Salmon	SW8270 SIM	Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	ND	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
1NE30FT104 Remain	Fish Tissue Pink Salmon	E160.1	Total Lipids	1.29	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.012	0.005	
			Arsenic	0.73	mg/Kg	0.12	0.05	
			Barium	0.042	mg/Kg	0.005	0.005	
			Cadmium	0.037	mg/Kg	0.012	0.005	
			Lead	0.008	mg/Kg	0.005	0.002	
			Nickel	0.64	mg/Kg	0.05	0.01	
			Silver	0.011	mg/Kg	0.005	0.005	
			Vanadium	0.11	mg/Kg	0.049	0.005	
			Zinc	23.9	mg/Kg	0.12	0.02	
		SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	1.46	mg/Kg	0.25	0.05	
		SW7471A	Mercury	0.021	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.18	mg/Kg	0.05	0.01	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.0055	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	ND	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
01NE30FT105 Egg	Fish Tissue Pink Salmon	E160.1	Total Lipids	11.6	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.019	0.007	
			Arsenic	0.41	mg/Kg	0.19	0.07	
			Barium	0.062	mg/Kg	0.007	0.007	
			Cadmium	0.024	mg/Kg	0.019	0.007	
			Lead	0.027	mg/Kg	0.007	0.004	
			Nickel	0.43	mg/Kg	0.07	0.01	
			Silver	0.02	mg/Kg	0.007	0.007	
			Vanadium	0.114	mg/Kg	0.075	0.007	
			Zinc	27.2	mg/Kg	0.19	0.03	
		SW6010B	Chromium	ND	mg/Kg	0.2	0.2	
			Copper	5.46	mg/Kg	0.37	0.07	
		SW7471A	Mercury	0.006	mg/Kg	0.003	0.002	
		SW7741	Selenium	0.6	mg/Kg	0.07	0.02	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.017	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	

Summary of Analytical Results Site 30
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE30FT105 Egg	Fish Tissue Pink Salmon	SW8270 SIM	Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	ND	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
01NE30FT105 Fillet	Fish Tissue Pink Salmon	E160.1	Total Lipids	0.47	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.01	0.004	
			Arsenic	0.33	mg/Kg	0.1	0.04	
			Barium	0.036	mg/Kg	0.004	0.004	
			Cadmium	0.007	mg/Kg	0.01	0.004	
			Lead	0.002	mg/Kg	0.004	0.002	
			Nickel	0.05	mg/Kg	0.04	0.01	
			Silver	ND	mg/Kg	0.004	0.004	
			Vanadium	0.08	mg/Kg	0.042	0.004	
			Zinc	10.5	mg/Kg	0.1	0.02	
		SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	1.15	mg/Kg	0.21	0.04	
		SW7471A	Mercury	0.034	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.19	mg/Kg	0.04	0.01	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.01	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	0.0015	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	ND	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
1NE30FT105 Remain	Fish Tissue Pink Salmon	E160.1	Total Lipids	0.87	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.01	0.004	
			Arsenic	0.3	mg/Kg	0.1	0.04	
			Barium	0.296	mg/Kg	0.004	0.004	
			Cadmium	0.056	mg/Kg	0.01	0.004	
			Lead	0.014	mg/Kg	0.004	0.002	
			Nickel	0.25	mg/Kg	0.04	0.01	
			Silver	0.03	mg/Kg	0.004	0.004	
			Vanadium	0.187	mg/Kg	0.042	0.004	
			Zinc	40	mg/Kg	0.1	0.02	
		SW6010B	Chromium	0.3	mg/Kg	0.1	0.1	
			Copper	2.51	mg/Kg	0.21	0.04	
		SW7471A	Mercury	0.024	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.24	mg/Kg	0.04	0.01	

Summary of Analytical Results Site 30
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
1NE30FT105 Remain	Fish Tissue Pink Salmon	SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.009	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	ND	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
01NE30FT106 Fillet	Fish Tissue Pink Salmon	E160.1	Total Lipids	1.73	PERCENT	0.05	0.05	
		E200.8	Antimony	ND	mg/Kg	0.012	0.005	
			Arsenic	0.58	mg/Kg	0.12	0.05	
			Barium	0.041	mg/Kg	0.005	0.005	
			Cadmium	ND	mg/Kg	0.012	0.005	
			Lead	0.002	mg/Kg	0.005	0.002	
			Nickel	0.05	mg/Kg	0.05	0.01	
			Silver	ND	mg/Kg	0.005	0.005	
			Vanadium	0.055	mg/Kg	0.048	0.005	
			Zinc	13.7	mg/Kg	0.12	0.02	
		SW6010B	Chromium	ND	mg/Kg	0.1	0.1	
			Copper	0.82	mg/Kg	0.24	0.05	
		SW7471A	Mercury	0.009	mg/Kg	0.004	0.002	
		SW7741	Selenium	0.15	mg/Kg	0.05	0.01	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.002	0.0007	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.004	0.0007	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.002	0.0007	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.002	0.0007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.002	0.0007	
			PCB-1254 (Aroclor 1254)	0.0062	mg/Kg	0.002	0.0007	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.002	0.0007	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.005	0.0024	
			Acenaphthene	ND	mg/Kg	0.005	0.0012	
			Anthracene	ND	mg/Kg	0.005	0.0015	
			Benzo(a)anthracene	ND	mg/Kg	0.005	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.005	0.002	
			Benzo(b)fluoranthene	ND	mg/Kg	0.005	0.0012	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.005	0.0014	
			Benzo(k)fluoranthene	ND	mg/Kg	0.005	0.0018	
			Chrysene	ND	mg/Kg	0.005	0.0018	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.005	0.0016	
			Fluoranthene	ND	mg/Kg	0.005	0.0014	
			Fluorene	ND	mg/Kg	0.005	0.0011	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.005	0.00053	
			Naphthalene	ND	mg/Kg	0.005	0.0018	
			Phenanthrene	ND	mg/Kg	0.005	0.0014	
			Pyrene	ND	mg/Kg	0.005	0.0015	
01NE30SD101	Sediment	AK102	DRO	84	mg/Kg	9.2	1.7	
		AK103	RRO	270	mg/Kg	18	18	VJ
		E200.8	Arsenic	19.8	mg/Kg	0.7	0.1	
		SW6010B	Aluminum	21700	mg/Kg	8	5	

Summary of Analytical Results Site 30
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE30SD101	Sediment	SW6010B	Antimony	50	mg/Kg	20	6	
			Barium	209	mg/Kg	1	0.2	
			Beryllium	3.3	mg/Kg	0.4	0.1	
			Cadmium	4	mg/Kg	0.8	0.3	
			Calcium	5440	mg/Kg	20	0.1	
			Chromium	30	mg/Kg	2	0.5	
			Cobalt	22	mg/Kg	1	0.2	
			Copper	29.8	mg/Kg	0.8	0.8	
			Iron	105000	mg/Kg	8	3	
			Lead	59	mg/Kg	8	3	
			Magnesium	4810	mg/Kg	8	3	
			Manganese	6480	mg/Kg	0.4	0.1	
			Nickel	30	mg/Kg	4	1	
			Potassium	1510	mg/Kg	200	200	
			Selenium	ND	mg/Kg	20	4	
			Silver	ND	mg/Kg	1	0.3	
			Sodium	410	mg/Kg	20	6	
			Thallium	ND	mg/Kg	20	2	
			Vanadium	48	mg/Kg	1	0.7	
			Zinc	368	mg/Kg	2	1	
		SW7471A	Mercury	ND	mg/Kg	0.1	0.04	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.022	0.022	
			Acenaphthene	ND	mg/Kg	0.022	0.015	
			Acenaphthylene	ND	mg/Kg	0.022	0.014	
			Anthracene	ND	mg/Kg	0.022	0.014	
			Benzo(a)anthracene	ND	mg/Kg	0.022	0.012	
			Benzo(a)pyrene	ND	mg/Kg	0.022	0.01	
			Benzo(b)fluoranthene	ND	mg/Kg	0.022	0.014	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.022	0.012	
			Benzo(k)fluoranthene	ND	mg/Kg	0.022	0.011	
			Chrysene	ND	mg/Kg	0.022	0.01	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.022	0.01	
			Dibenzofuran	ND	mg/Kg	0.022	0.022	
			Fluoranthene	ND	mg/Kg	0.022	0.011	
			Fluorene	ND	mg/Kg	0.022	0.016	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.022	0.015	
			Naphthalene	ND	mg/Kg	0.022	0.02	
			Phenanthrene	ND	mg/Kg	0.022	0.014	
			Pyrene	ND	mg/Kg	0.022	0.012	
01NE30SS101	Surface Soil	AK102	DRO	390	mg/Kg	58	10	
		AK103	RRO	2300	mg/Kg	120	120	VJ
		E200.8	Arsenic	5.3	mg/Kg	0.4	0.08	
		SW6010B	Aluminum	19700	mg/Kg	5	3	
			Antimony	ND	mg/Kg	10	3	
			Barium	173	mg/Kg	0.7	0.09	
			Beryllium	0.3	mg/Kg	0.2	0.07	
			Cadmium	ND	mg/Kg	0.5	0.2	
			Calcium	2000	mg/Kg	10	0.07	
			Chromium	31	mg/Kg	1	0.3	
			Cobalt	5.8	mg/Kg	0.7	0.1	
			Copper	14.2	mg/Kg	0.5	0.5	
			Iron	17500	mg/Kg	5	1	
			Lead	15	mg/Kg	5	1	
			Magnesium	4150	mg/Kg	5	2	
			Manganese	86.8	mg/Kg	0.2	0.07	
			Nickel	18	mg/Kg	2	0.8	
			Potassium	1250	mg/Kg	110	90	
			Selenium	ND	mg/Kg	10	2	
			Silver	ND	mg/Kg	0.7	0.2	
			Sodium	240	mg/Kg	10	3	
			Thallium	ND	mg/Kg	10	1	
			Vanadium	44.5	mg/Kg	0.7	0.4	
			Zinc	45	mg/Kg	1	0.7	
		SW7471A	Mercury	0.1	mg/Kg	0.1	0.03	

Summary of Analytical Results Site 30
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE30SS101	Surface Soil	SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.027	0.027	
			Acenaphthene	ND	mg/Kg	0.027	0.018	
			Acenaphthylene	ND	mg/Kg	0.027	0.018	
			Anthracene	ND	mg/Kg	0.027	0.018	
			Benzo(a)anthracene	ND	mg/Kg	0.027	0.015	
			Benzo(a)pyrene	ND	mg/Kg	0.027	0.013	
			Benzo(b)fluoranthene	ND	mg/Kg	0.027	0.018	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.027	0.015	
			Benzo(k)fluoranthene	ND	mg/Kg	0.027	0.014	
			Chrysene	ND	mg/Kg	0.027	0.013	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.027	0.013	
			Dibenzofuran	ND	mg/Kg	0.027	0.027	
			Fluoranthene	ND	mg/Kg	0.027	0.014	
			Fluorene	ND	mg/Kg	0.027	0.02	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.027	0.019	
			Naphthalene	ND	mg/Kg	0.027	0.026	
			Phenanthrene	ND	mg/Kg	0.027	0.018	
			Pyrene	ND	mg/Kg	0.027	0.016	
01NE30SS102	Surface Soil	AK102	DRO	11	mg/Kg	5	0.51	
		AK103	RRO	21	mg/Kg	10	10	VJ
		E200.8	Arsenic	4.4	mg/Kg	0.2	0.04	
		SW6010B	Aluminum	13200	mg/Kg	2	1	
			Antimony	15	mg/Kg	6	2	
			Barium	85.3	mg/Kg	0.3	0.04	
			Beryllium	1	mg/Kg	0.1	0.03	
			Cadmium	0.5	mg/Kg	0.2	0.09	
			Calcium	4040	mg/Kg	6	0.03	
			Chromium	52.1	mg/Kg	0.6	0.1	
			Cobalt	10.8	mg/Kg	0.3	0.07	
			Copper	41.3	mg/Kg	0.2	0.2	
			Iron	26400	mg/Kg	2	0.7	
			Lead	28	mg/Kg	2	0.7	
			Magnesium	7250	mg/Kg	2	0.9	
			Manganese	340	mg/Kg	0.1	0.03	
			Nickel	31	mg/Kg	1	0.4	
			Potassium	2340	mg/Kg	60	40	
			Selenium	ND	mg/Kg	6	1	
			Silver	ND	mg/Kg	0.3	0.08	
			Sodium	222	mg/Kg	6	2	
			Thallium	ND	mg/Kg	6	0.7	
			Vanadium	35.8	mg/Kg	0.3	0.2	
			Zinc	89	mg/Kg	0.7	0.3	
		SW7471A	Mercury	ND	mg/Kg	0.04	0.01	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.0068	0.0068	
			Acenaphthene	ND	mg/Kg	0.0068	0.0046	
			Acenaphthylene	ND	mg/Kg	0.0068	0.0045	
			Anthracene	ND	mg/Kg	0.0068	0.0045	
			Benzo(a)anthracene	ND	mg/Kg	0.0068	0.0038	
			Benzo(a)pyrene	ND	mg/Kg	0.0068	0.0032	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0068	0.0044	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0068	0.0038	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0068	0.0033	
			Chrysene	ND	mg/Kg	0.0068	0.0031	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0068	0.0032	
			Dibenzofuran	ND	mg/Kg	0.0068	0.0068	
			Fluoranthene	ND	mg/Kg	0.0068	0.0034	
			Fluorene	ND	mg/Kg	0.0068	0.0051	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0068	0.0047	
			Naphthalene	ND	mg/Kg	0.0068	0.0064	
			Phenanthrene	ND	mg/Kg	0.0068	0.0044	
			Pyrene	ND	mg/Kg	0.0068	0.0039	
01NE30SS103	Surface Soil	AK102	DRO	170	mg/Kg	23	4.1	
		AK103	RRO	1200	mg/Kg	45	45	VJ
		E200.8	Arsenic	ND	mg/Kg	2	0.3	

Summary of Analytical Results Site 30
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE30SS103	Surface Soil	SW6010B	Aluminum	640	mg/Kg	10	8	
			Antimony	ND	mg/Kg	30	10	
			Barium	34	mg/Kg	2	0.3	
			Beryllium	ND	mg/Kg	0.7	0.2	
			Cadmium	ND	mg/Kg	1	0.6	
			Calcium	2530	mg/Kg	30	0.2	
			Chromium	ND	mg/Kg	3	0.9	
			Cobalt	ND	mg/Kg	2	0.4	
			Copper	2	mg/Kg	1	1	
			Iron	6730	mg/Kg	10	4	
			Lead	ND	mg/Kg	10	4	
			Magnesium	1630	mg/Kg	10	6	
			Manganese	8	mg/Kg	0.7	0.2	
			Nickel	ND	mg/Kg	7	2	
			Potassium	ND	mg/Kg	340	300	
			Selenium	ND	mg/Kg	30	7	
			Silver	ND	mg/Kg	2	0.5	
			Sodium	270	mg/Kg	30	10	
			Thallium	ND	mg/Kg	30	4	
			Vanadium	4	mg/Kg	2	1	
			Zinc	9	mg/Kg	4	2	
		SW7471A	Mercury	ND	mg/Kg	0.3	0.1	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.053	0.053	VQQ
			Acenaphthene	ND	mg/Kg	0.053	0.036	VQQ
			Acenaphthylene	ND	mg/Kg	0.053	0.035	VQQ
			Anthracene	ND	mg/Kg	0.053	0.035	VQQ
			Benzo(a)anthracene	ND	mg/Kg	0.053	0.03	VQQ
			Benzo(a)pyrene	ND	mg/Kg	0.053	0.026	VQQ
			Benzo(b)fluoranthene	ND	mg/Kg	0.053	0.034	VQQ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.053	0.03	VQQ
			Benzo(k)fluoranthene	ND	mg/Kg	0.053	0.026	VQQ
			Chrysene	ND	mg/Kg	0.053	0.025	VQQ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.053	0.026	VQQ
			Dibenzofuran	ND	mg/Kg	0.053	0.053	VQQ
			Fluoranthene	ND	mg/Kg	0.053	0.027	VQQ
			Fluorene	ND	mg/Kg	0.053	0.04	VQQ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.053	0.037	VQQ
			Naphthalene	ND	mg/Kg	0.053	0.05	VQQ
			Phenanthrene	ND	mg/Kg	0.053	0.034	VQQ
			Pyrene	ND	mg/Kg	0.053	0.03	VQQ
01NE30SS201	Surface Soil	E200.8	Arsenic	3.6	mg/Kg	0.4	0.08	
		SW6010B	Aluminum	17800	mg/Kg	4	2	
			Antimony	ND	mg/Kg	9	3	
			Barium	160	mg/Kg	0.6	0.08	
			Beryllium	0.5	mg/Kg	0.2	0.06	
			Cadmium	ND	mg/Kg	0.4	0.2	
			Calcium	1810	mg/Kg	9	0.06	
			Chromium	28.5	mg/Kg	0.9	0.2	
			Cobalt	5.3	mg/Kg	0.6	0.1	
			Copper	13.7	mg/Kg	0.4	0.4	
			Iron	15200	mg/Kg	4	1	
			Lead	11	mg/Kg	4	1	
			Magnesium	3790	mg/Kg	4	2	
			Manganese	80.3	mg/Kg	0.2	0.06	
			Nickel	16	mg/Kg	2	0.6	
			Potassium	1040	mg/Kg	90	70	
			Selenium	ND	mg/Kg	9	2	
			Silver	ND	mg/Kg	0.6	0.1	
			Sodium	227	mg/Kg	9	3	
			Thallium	ND	mg/Kg	9	1	
			Vanadium	38.1	mg/Kg	0.6	0.3	
			Zinc	42	mg/Kg	1	0.6	
		SW7471A	Mercury	0.1	mg/Kg	0.1	0.03	
01NE30WP101	Ground Water	A2320B	Alkalinity, Total	ND	MGCACO3/	1	1	

Summary of Analytical Results Site 30
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE30WP101	Ground Water	AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	2	mg/L	1.2	0.12	VB
		AK103	RRO	6.9	mg/L	2.5	2.5	VJ
		E375.2	Sulfate	24	mg/L	2.5	2.5	
		SW6010B	Aluminum	8.17	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.102	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	3.68	mg/L	0.05	0.0003	
			Chromium	0.03	mg/L	0.005	0.0013	
			Cobalt	0.005	mg/L	0.003	0.0006	
			Copper	0.017	mg/L	0.002	0.002	
			Iron	13.5	mg/L	0.02	0.0063	
			Magnesium	3.97	mg/L	0.02	0.0084	
			Manganese	0.056	mg/L	0.001	0.0003	
			Nickel	0.09	mg/L	0.01	0.0034	
			Potassium	1.73	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	13	mg/L	0.05	0.015	
			Vanadium	0.02	mg/L	0.003	0.0017	
			Zinc	0.146	mg/L	0.006	0.0029	
		SW7060A	Arsenic	0.007	mg/L	0.001	0.00054	
		SW7421	Lead	0.007	mg/L	0.001	0.00086	
		SW7470A	Mercury	0.0002	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroethar	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.0028	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.0011	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.0014	
			Acetone	0.013	mg/L	0.005	0.003	
			Acrolein	ND	mg/L	0.05	0.0041	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	

Summary of Analytical Results Site 30
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE30WP101	Ground Water	SW8260	Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/L	0.0001	0.0001	
			Acenaphthene	ND	mg/L	0.0001	0.00009	
			Acenaphthylene	ND	mg/L	0.0001	0.00009	
			Anthracene	ND	mg/L	0.0001	0.00003	
			Benzo(a)anthracene	ND	mg/L	0.0001	0.00003	
			Benzo(a)pyrene	ND	mg/L	0.0001	0.00002	
			Benzo(b)fluoranthene	ND	mg/L	0.0001	0.00004	
			Benzo(g,h,i)perylene	ND	mg/L	0.0001	0.00008	
			Benzo(k)fluoranthene	ND	mg/L	0.0001	0.00004	
			Chrysene	ND	mg/L	0.0001	0.00003	
			Dibenzo(a,h)anthracene	ND	mg/L	0.0001	0.0001	
			Dibenzofuran	ND	mg/L	0.0001	0.0001	
			Fluoranthene	ND	mg/L	0.0001	0.0001	
			Fluorene	ND	mg/L	0.0001	0.00009	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.0001	0.00008	
			Naphthalene	ND	mg/L	0.0001	0.00009	
			Phenanthrene	ND	mg/L	0.0001	0.00007	
			Pyrene	ND	mg/L	0.0001	0.0001	
01NE30WP102	Ground Water	A2320B	Alkalinity, Total	7.7	MGCACO3/	1	1	
		AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		E375.2	Sulfate	11	mg/L	2.5	2.5	
		SW6010B	Aluminum	0.82	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.021	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	1.33	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	

Summary of Analytical Results Site 30
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE30WP102	Ground Water	SW6010B	Cobalt	ND	mg/L	0.003	0.0006	
			Copper	0.002	mg/L	0.002	0.002	
			Iron	7.9	mg/L	0.02	0.0063	
			Magnesium	1.42	mg/L	0.02	0.0084	
			Manganese	0.09	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	1.27	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	6.52	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	ND	mg/L	0.006	0.0029	
		SW7060A	Arsenic	0.003	mg/L	0.001	0.00054	
		SW7421	Lead	0.002	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroethar	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.00283	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.00113	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.00138	
			Acetone	ND	mg/L	0.005	0.00304	
			Acrolein	ND	mg/L	0.05	0.00414	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	

Summary of Analytical Results Site 30
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE30WP102	Ground Water	SW8260	Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/L	0.00005	0.00005	
			Acenaphthene	ND	mg/L	0.00005	0.00004	
			Acenaphthylene	ND	mg/L	0.00005	0.00005	
			Anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)pyrene	ND	mg/L	0.00005	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	0.00005	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	0.00005	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	0.00005	0.00002	
			Chrysene	ND	mg/L	0.00005	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	0.00005	0.00005	
			Dibenzofuran	ND	mg/L	0.00005	0.00005	
			Fluoranthene	ND	mg/L	0.00005	0.00005	
			Fluorene	ND	mg/L	0.00005	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.00005	0.00004	
			Naphthalene	ND	mg/L	0.00005	0.00005	
			Phenanthrene	ND	mg/L	0.00005	0.00004	
			Pyrene	ND	mg/L	0.00005	0.00005	

Key:
DRO - diesel range organics
MDL - method detection limit
mg/L - milligram per liter
mg/Kg - milligram per kilogram
MRL - method reporting limit
ND - not detected
RRO - residual range organics
SIM - selected ion monitoring
VB - The analyte was detected in the assoicated blank and the sample indicating possible contamination.
VJ - The analyte was positively identified; the quantitaion is an estimation.
VQQ - The practical quantation limit is approximate due to QC or matrix effects.

Summary of Analytical Results Site 31
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE31SS101	Surface Soil	AK102	DRO	11	mg/Kg	5	0.48	
	Depth 0	AK103	RRO	33	mg/Kg	10	10	VJ
	to 0.5 feet bgs	SW8081	4,4'-DDD	ND	mg/Kg	0.0035	0.00016	
			4,4'-DDE	ND	mg/Kg	0.0026	0.00014	
			4,4'-DDT	ND	mg/Kg	0.21	0.00024	
			Aldrin	ND	mg/Kg	0.0018	0.000063	
			alpha-BHC	ND	mg/Kg	0.0018	0.000095	
			alpha-Chlordane	ND	mg/Kg	0.0018	0.000053	
			beta-BHC	ND	mg/Kg	0.0018	0.00011	
			delta-BHC	ND	mg/Kg	0.0018	0.000077	
			Dieldrin	ND	mg/Kg	0.043	0.00011	
			Endosulfan I	ND	mg/Kg	0.0018	0.000095	
			Endosulfan II	ND	mg/Kg	0.0035	0.00022	
			Endosulfan sulfate	ND	mg/Kg	0.034	0.0003	
			Endrin	ND	mg/Kg	0.0048	0.00011	
			Endrin aldehyde	ND	mg/Kg	0.056	0.0002	
			Endrin ketone	ND	mg/Kg	0.0035	0.00036	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0018	0.000074	
			gamma-Chlordane	ND	mg/Kg	0.0018	0.000067	
			Heptachlor	ND	mg/Kg	0.0018	0.000077	
			Heptachlor epoxide	ND	mg/Kg	0.0018	0.000077	
			Methoxychlor	ND	mg/Kg	0.037	0.0011	
			PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.035	0.0094	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.07	0.012	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.035	0.0049	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.035	0.0057	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.035	0.0038	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.035	0.011	
			PCB-1260 (Aroclor 1260)	6.7	mg/Kg	0.35	0.092	
			Toxaphene	ND	mg/Kg	0.18	0.0079	
01NE31SS102	Surface Soil	AK102	DRO	25	mg/Kg	5	0.5	
	Depth 0	AK103	RRO	95	mg/Kg	10	10	VJ
	to 0.5 feet bgs	SW8081	4,4'-DDD	ND	mg/Kg	0.0037	0.00017	
			4,4'-DDE	ND	mg/Kg	0.0037	0.00014	
			4,4'-DDT	ND	mg/Kg	0.097	0.00026	
			Aldrin	ND	mg/Kg	0.0019	0.000067	
			alpha-BHC	ND	mg/Kg	0.0019	0.0001	
			alpha-Chlordane	ND	mg/Kg	0.0019	0.000056	
			beta-BHC	ND	mg/Kg	0.0019	0.00011	
			delta-BHC	ND	mg/Kg	0.0019	0.000081	
			Dieldrin	ND	mg/Kg	0.027	0.00011	
			Endosulfan I	ND	mg/Kg	0.0019	0.0001	
			Endosulfan II	ND	mg/Kg	0.0037	0.00023	
			Endosulfan sulfate	ND	mg/Kg	0.17	0.00031	
			Endrin	ND	mg/Kg	0.0037	0.00011	
			Endrin aldehyde	ND	mg/Kg	0.036	0.00021	
			Endrin ketone	ND	mg/Kg	0.0037	0.00038	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0019	0.000078	
			gamma-Chlordane	ND	mg/Kg	0.0019	0.00007	
			Heptachlor	ND	mg/Kg	0.0019	0.000081	
			Heptachlor epoxide	ND	mg/Kg	0.0019	0.000081	
			Methoxychlor	ND	mg/Kg	0.022	0.0011	
			PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.037	0.0099	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.074	0.013	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.037	0.0051	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.037	0.006	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.037	0.004	

Summary of Analytical Results Site 31
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE31SS102	Surface Soil Depth 0 to 0.5 feet bgs	SW8081	PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.037	0.012	
			PCB-1260 (Aroclor 1260)	4.7	mg/Kg	0.37	0.097	
			Toxaphene	ND	mg/Kg	0.19	0.0083	
01NE31SS103	Surface Soil Depth 0 to 0.5 feet bgs	AK102	DRO	18	mg/Kg	5	0.48	
		AK103	RRO	62	mg/Kg	10	10	VJ
		SW8081	4,4'-DDD	ND	mg/Kg	0.0035	0.00016	
			4,4'-DDE	ND	mg/Kg	0.0035	0.00014	
			4,4'-DDT	ND	mg/Kg	0.13	0.00024	
			Aldrin	ND	mg/Kg	0.0018	0.000063	
			alpha-BHC	ND	mg/Kg	0.0018	0.000095	
			alpha-Chlordane	ND	mg/Kg	0.0018	0.000053	
			beta-BHC	ND	mg/Kg	0.0018	0.00011	
			delta-BHC	ND	mg/Kg	0.0018	0.000077	
			Dieldrin	ND	mg/Kg	0.028	0.00011	
			Endosulfan I	ND	mg/Kg	0.0018	0.000095	
			Endosulfan II	ND	mg/Kg	0.0035	0.00022	
			Endosulfan sulfate	ND	mg/Kg	0.16	0.0003	
			Endrin	ND	mg/Kg	0.0035	0.00011	
			Endrin aldehyde	ND	mg/Kg	0.032	0.0002	
			Endrin ketone	ND	mg/Kg	0.0035	0.00036	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0018	0.000074	
			gamma-Chlordane	ND	mg/Kg	0.0018	0.000067	
			Heptachlor	ND	mg/Kg	0.0018	0.000077	
			Heptachlor epoxide	ND	mg/Kg	0.0018	0.000077	
			Methoxychlor	ND	mg/Kg	0.024	0.0011	
			PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.035	0.0094	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.07	0.012	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.035	0.0049	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.035	0.0057	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.035	0.0038	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.035	0.011	
			PCB-1260 (Aroclor 1260)	4.1	mg/Kg	0.35	0.092	
			Toxaphene	ND	mg/Kg	0.18	0.0079	
01NE31SS104	Surface Soil Depth 0 to 0.5 feet bgs	AK102	DRO	49	mg/Kg	5	0.48	
		AK103	RRO	140	mg/Kg	10	10	VJ
		SW8081	4,4'-DDD	ND	mg/Kg	0.0035	0.00016	
			4,4'-DDE	ND	mg/Kg	0.0035	0.00014	
			4,4'-DDT	ND	mg/Kg	0.078	0.00024	
			Aldrin	ND	mg/Kg	0.0018	0.000064	
			alpha-BHC	ND	mg/Kg	0.0018	0.000096	
			alpha-Chlordane	ND	mg/Kg	0.0018	0.000053	
			beta-BHC	ND	mg/Kg	0.0018	0.00011	
			delta-BHC	ND	mg/Kg	0.0018	0.000078	
			Dieldrin	ND	mg/Kg	0.028	0.00011	
			Endosulfan I	ND	mg/Kg	0.0018	0.000096	
			Endosulfan II	ND	mg/Kg	0.0035	0.00022	
			Endosulfan sulfate	ND	mg/Kg	0.17	0.0003	
			Endrin	ND	mg/Kg	0.0035	0.00011	
			Endrin aldehyde	ND	mg/Kg	0.034	0.0002	
			Endrin ketone	ND	mg/Kg	0.0035	0.00036	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0018	0.000074	
			gamma-Chlordane	ND	mg/Kg	0.0018	0.000067	
			Heptachlor	ND	mg/Kg	0.0018	0.000078	
			Heptachlor epoxide	ND	mg/Kg	0.0018	0.000078	
			Methoxychlor	ND	mg/Kg	0.024	0.0011	
			PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.035	0.0095	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.071	0.012	

Summary of Analytical Results Site 31
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE31SS104	Surface Soil Depth 0 to 0.5 feet bgs	SW8081	PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.035	0.0049	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.035	0.0057	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.035	0.0038	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.035	0.011	
			PCB-1260 (Aroclor 1260)	4.4	mg/Kg	0.35	0.093	
			Toxaphene	ND	mg/Kg	0.18	0.008	
01NE31SS105 Depth 0	Surface Soil to 0.5 feet bgs	AK102	DRO	3400	mg/Kg	250	27	
		AK103	RRO	ND	mg/Kg	500	500	VQQ
01NE31SS106 Depth 1.5	Suburface Soil to 2 feet bgs	AK102	DRO	620	mg/Kg	50	4.8	
		AK103	RRO	ND	mg/Kg	100	100	VQQ
01NE31SS107 Depth 0	Surface Soil to 0.5 feet bgs	AK102	DRO	690	mg/Kg	50	4.9	
		AK103	RRO	ND	mg/Kg	100	100	VQQ
01NE31SS108 Depth 1.5	Suburface Soil to 2 feet bgs	AK102	DRO	550	mg/Kg	25	2.3	
		AK103	RRO	ND	mg/Kg	50	50	VQQ
01NE31SS109 Depth 0	Surface Soil to 0.5 feet bgs	AK102	DRO	470	mg/Kg	25	2.4	
		AK103	RRO	ND	mg/Kg	50	50	VQQ
01NE31SS110 Depth 1.5	Suburface Soil to 2 feet bgs	AK102	DRO	310	mg/Kg	20	2	
		AK103	RRO	ND	mg/Kg	40	40	VQQ
01NE31SS111 Depth 0	Surface Soil to 0.5 feet bgs	AK102	DRO	78	mg/Kg	5	0.48	VLB
		AK103	RRO	32	mg/Kg	10	10	VJ
01NE31SS112 Depth 1.5	Suburface Soil to 2 feet bgs	AK102	DRO	120	mg/Kg	5	0.47	VLB
		AK103	RRO	12	mg/Kg	10	10	VJ
01NE31SS113 Depth 0	Surface Soil to 0.5 feet bgs	AK102	DRO	640	mg/Kg	50	4.7	
		AK103	RRO	ND	mg/Kg	100	100	VQQ
01NE31SS114 Depth 1.5	Suburface Soil to 2 feet bgs	AK102	DRO	1600	mg/Kg	100	9.6	
		AK103	RRO	ND	mg/Kg	200	200	VQQ
01NE31SS115 Depth 0	Surface Soil to 0.5 feet bgs	AK102	DRO	380	mg/Kg	20	1.9	
		AK103	RRO	ND	mg/Kg	40	40	VQQ
01NE31SS116 Depth 1.5	Suburface Soil to 2 feet bgs	AK102	DRO	1200	mg/Kg	100	9.7	
		AK103	RRO	ND	mg/Kg	200	200	VQQ
01NE31SS117 Depth 0	Surface Soil to 0.5 feet bgs	AK102	DRO	2100	mg/Kg	100	10	
		AK103	RRO	ND	mg/Kg	200	200	VQQ
01NE31SS118 Depth 1.5	Suburface Soil to 2 feet bgs	AK102	DRO	3000	mg/Kg	100	10	
		AK103	RRO	ND	mg/Kg	200	200	VQQ
01NE31SS119 Depth 0	Surface Soil to 0.5 feet bgs	AK102	DRO	1600	mg/Kg	250	23	
		AK103	RRO	7800	mg/Kg	500	500	VJ
01NE31SS120 Depth 1.5	Suburface Soil to 2 feet bgs	AK102	DRO	2100	mg/Kg	250	23	
		AK103	RRO	11000	mg/Kg	500	500	VJ
01NE31SS121	Surface Soil Depth 0 to 0.5 feet bgs	AK101	GRO	ND	mg/Kg	7.06	2.44	
		AK102	DRO	47	mg/Kg	25	3.9	
		AK103	RRO	350	mg/Kg	50	50	VJ
		SW8081	4,4'-DDD	ND	mg/Kg	0.0058	0.00026	
			4,4'-DDE	ND	mg/Kg	0.0058	0.00022	
			4,4'-DDT	ND	mg/Kg	0.0058	0.0004	
			Aldrin	ND	mg/Kg	0.0029	0.0001	
			alpha-BHC	ND	mg/Kg	0.0029	0.00016	
			alpha-Chlordane	ND	mg/Kg	0.0029	0.000086	
			beta-BHC	ND	mg/Kg	0.0029	0.00017	
			delta-BHC	ND	mg/Kg	0.0029	0.00013	
			Dieldrin	ND	mg/Kg	0.0058	0.00017	
			Endosulfan I	ND	mg/Kg	0.0029	0.00016	
			Endosulfan II	ND	mg/Kg	0.0058	0.00036	
			Endosulfan sulfate	ND	mg/Kg	0.0058	0.00048	
			Endrin	ND	mg/Kg	0.0058	0.00017	
			Endrin aldehyde	ND	mg/Kg	0.0058	0.00033	
			Endrin ketone	ND	mg/Kg	0.0058	0.00059	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0029	0.00012	

Summary of Analytical Results Site 31
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE31SS121	Surface Soil Depth 0 to 0.5 feet bgs	SW8081	gamma-Chlordane	ND	mg/Kg	0.0029	0.00011	
			Heptachlor	ND	mg/Kg	0.0029	0.00013	
			Heptachlor epoxide	ND	mg/Kg	0.0029	0.00013	
			Methoxychlor	ND	mg/Kg	0.029	0.0017	
			PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.058	0.015	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.12	0.02	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.058	0.0079	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.058	0.0093	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.058	0.0062	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.058	0.019	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.058	0.015	
			Toxaphene	ND	mg/Kg	0.29	0.013	
		SW8260 SIM	Benzene	ND	mg/Kg	0.0041	0.0041	
			Ethylbenzene	ND	mg/Kg	0.0041	0.002	
			m,p-Xylene (sum)	ND	mg/Kg	0.0083	0.0083	
			o-Xylene	ND	mg/Kg	0.0041	0.0035	
			Toluene	0.0118	mg/Kg	0.0041	0.0039	
01NE31SS122	Surface Soil Depth 0 to 0.5 feet bgs	AK101	GRO	ND	mg/Kg	5	1.04	
		AK102	DRO	11000	mg/Kg	500	50	
		AK103	RRO	7800	mg/Kg	1000	1000	VJ
		SW8081	4,4'-DDD	ND	mg/Kg	0.071	0.0017	
			4,4'-DDE	ND	mg/Kg	0.037	0.0015	
			4,4'-DDT	ND	mg/Kg	0.16	0.0026	
			Aldrin	ND	mg/Kg	0.019	0.00067	
			alpha-BHC	ND	mg/Kg	0.019	0.001	
			alpha-Chlordane	ND	mg/Kg	0.019	0.00056	
			beta-BHC	ND	mg/Kg	0.019	0.0011	
			delta-BHC	ND	mg/Kg	0.019	0.00082	
			Dieldrin	ND	mg/Kg	0.037	0.0011	
			Endosulfan I	ND	mg/Kg	0.019	0.001	
			Endosulfan II	ND	mg/Kg	0.037	0.0023	
			Endosulfan sulfate	ND	mg/Kg	0.064	0.0031	
			Endrin	ND	mg/Kg	0.037	0.0011	
			Endrin aldehyde	ND	mg/Kg	0.037	0.0021	
			Endrin ketone	ND	mg/Kg	0.037	0.0038	
			gamma-BHC (Lindane)	ND	mg/Kg	0.019	0.00078	
			gamma-Chlordane	ND	mg/Kg	0.019	0.00071	
			Heptachlor	ND	mg/Kg	0.019	0.00082	
			Heptachlor epoxide	ND	mg/Kg	0.019	0.00082	
			Methoxychlor	ND	mg/Kg	0.19	0.011	
			PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.37	0.1	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.75	0.13	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.37	0.051	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.37	0.06	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.37	0.04	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.37	0.12	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.37	0.098	
			Toxaphene	ND	mg/Kg	1.9	0.084	
		SW8260 SIM	Benzene	ND	mg/Kg	0.0024	0.0024	
			Ethylbenzene	ND	mg/Kg	0.0024	0.0012	
			m,p-Xylene (sum)	ND	mg/Kg	0.0048	0.0048	
			o-Xylene	ND	mg/Kg	0.0024	0.002	
			Toluene	ND	mg/Kg	0.0024	0.0023	
01NE31SS123	Surface Soil Depth 0 to 0.5 feet bgs	AK101	GRO	ND	mg/Kg	12.2	4.22	
		AK102	DRO	240	mg/Kg	55	9.8	
		AK103	RRO	1300	mg/Kg	110	110	VJ
		SW8081	4,4'-DDD	ND	mg/Kg	0.0073	0.00033	

Summary of Analytical Results Site 31
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE31SS123	Surface Soil Depth 0 to 0.5 feet bgs	SW8081	4,4'-DDE	ND	mg/Kg	0.017	0.00028	
			4,4'-DDT	ND	mg/Kg	0.61	0.0005	
			Aldrin	ND	mg/Kg	0.0036	0.00013	
			alpha-BHC	ND	mg/Kg	0.0036	0.0002	
			alpha-Chlordane	ND	mg/Kg	0.0036	0.00011	
			beta-BHC	ND	mg/Kg	0.0036	0.00022	
			delta-BHC	ND	mg/Kg	0.0036	0.00016	
			Dieldrin	ND	mg/Kg	0.14	0.00022	
			Endosulfan I	ND	mg/Kg	0.0036	0.0002	
			Endosulfan II	ND	mg/Kg	0.0073	0.00045	
			Endosulfan sulfate	ND	mg/Kg	0.4	0.00061	
			Endrin	ND	mg/Kg	0.014	0.00022	
			Endrin aldehyde	ND	mg/Kg	0.17	0.00041	
			Endrin ketone	ND	mg/Kg	0.0073	0.00074	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0036	0.00015	
			gamma-Chlordane	ND	mg/Kg	0.036	0.00014	
			Heptachlor	ND	mg/Kg	0.0036	0.00016	
			Heptachlor epoxide	ND	mg/Kg	0.0036	0.00016	
			Methoxychlor	ND	mg/Kg	0.1	0.0022	
			PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.073	0.019	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.15	0.025	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.073	0.01	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.073	0.012	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.073	0.0079	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.073	0.024	
			PCB-1260 (Aroclor 1260)	22	mg/Kg	0.73	0.19	
			Toxaphene	ND	mg/Kg	0.36	0.016	
		SW8260 SIM	Benzene	ND	mg/Kg	0.0052	0.0052	
			Ethylbenzene	ND	mg/Kg	0.0052	0.0026	
			m,p-Xylene (sum)	0.017	mg/Kg	0.01	0.01	
			o-Xylene	0.0053	mg/Kg	0.0052	0.0044	
			Toluene	0.024	mg/Kg	0.0052	0.005	
01NE31SS124	Surface Soil Depth 0 to 0.5 feet bgs	AK101	GRO	ND	mg/Kg	5.76	1.99	
		AK102	DRO	100	mg/Kg	5	0.52	VLB
		AK103	RRO	190	mg/Kg	10	10	VJ
		SW8081	4,4'-DDD	ND	mg/Kg	0.0038	0.00017	
			4,4'-DDE	ND	mg/Kg	0.0038	0.00015	
			4,4'-DDT	ND	mg/Kg	0.014	0.00026	
			Aldrin	ND	mg/Kg	0.0019	0.000069	
			alpha-BHC	ND	mg/Kg	0.0019	0.0001	
			alpha-Chlordane	ND	mg/Kg	0.0019	0.000057	
			beta-BHC	ND	mg/Kg	0.0019	0.00011	
			delta-BHC	ND	mg/Kg	0.0019	0.000084	
			Dieldrin	ND	mg/Kg	0.0038	0.00011	
			Endosulfan I	ND	mg/Kg	0.0019	0.0001	
			Endosulfan II	ND	mg/Kg	0.0038	0.00024	
			Endosulfan sulfate	ND	mg/Kg	0.021	0.00032	
			Endrin	ND	mg/Kg	0.0038	0.00011	
			Endrin aldehyde	ND	mg/Kg	0.0038	0.00022	
			Endrin ketone	ND	mg/Kg	0.0038	0.00039	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0019	0.00008	
			gamma-Chlordane	ND	mg/Kg	0.0019	0.000073	
			Heptachlor	ND	mg/Kg	0.0019	0.000084	
			Heptachlor epoxide	ND	mg/Kg	0.0019	0.000084	
			Methoxychlor	ND	mg/Kg	0.019	0.0011	
			PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.038	0.01	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.077	0.013	

Summary of Analytical Results Site 31
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE31SS124	Surface Soil Depth 0 to 0.5 feet bgs	SW8081	PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.038	0.0053	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.038	0.0062	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.038	0.0041	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.038	0.012	
			PCB-1260 (Aroclor 1260)	0.36	mg/Kg	0.038	0.01	
			Toxaphene	ND	mg/Kg	0.19	0.0086	
		SW8260 SIM	Benzene	ND	mg/Kg	0.003	0.003	
			Ethylbenzene	ND	mg/Kg	0.003	0.0014	
			m,p-Xylene (sum)	ND	mg/Kg	0.0059	0.0059	
			o-Xylene	ND	mg/Kg	0.003	0.0025	
			Toluene	0.0073	mg/Kg	0.003	0.0028	
01NE31SS125 Depth 0	Surface Soil to 0.5 feet bgs	AK102	DRO	64	mg/Kg	5	0.79	VLB
		AK103	RRO	210	mg/Kg	10	10	VJ
01NE31SS202	Surface Soil Depth 0 to 0.5 feet bgs	SW8081	4,4'-DDD	ND	mg/Kg	0.0038	0.00017	
			4,4'-DDE	ND	mg/Kg	0.0056	0.00015	
			4,4'-DDT	ND	mg/Kg	0.12	0.00026	
			Aldrin	ND	mg/Kg	0.0019	0.000068	
			alpha-BHC	ND	mg/Kg	0.0019	0.0001	
			alpha-Chlordane	ND	mg/Kg	0.0019	0.000057	
			beta-BHC	ND	mg/Kg	0.0019	0.00011	
			delta-BHC	ND	mg/Kg	0.0019	0.000084	
			Dieldrin	ND	mg/Kg	0.035	0.00011	
			Endosulfan I	ND	mg/Kg	0.0019	0.0001	
			Endosulfan II	ND	mg/Kg	0.0038	0.00024	
			Endosulfan sulfate	ND	mg/Kg	0.18	0.00032	
			Endrin	ND	mg/Kg	0.0041	0.00011	
			Endrin aldehyde	ND	mg/Kg	0.04	0.00022	
			Endrin ketone	ND	mg/Kg	0.0038	0.00039	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0019	0.00008	
			gamma-Chlordane	ND	mg/Kg	0.0019	0.000072	
			Heptachlor	ND	mg/Kg	0.0019	0.000084	
			Heptachlor epoxide	ND	mg/Kg	0.0019	0.000084	
			Methoxychlor	ND	mg/Kg	0.025	0.0011	
			PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.038	0.01	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.076	0.013	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.038	0.0052	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.038	0.0062	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.038	0.0041	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.038	0.012	
			PCB-1260 (Aroclor 1260)	4.8	mg/Kg	0.38	0.1	
			Toxaphene	ND	mg/Kg	0.19	0.0085	
01NE31SS205 Depth 0	Surface Soil to 0.5 feet bgs	AK102	DRO	3700	mg/Kg	250	26	
		AK103	RRO	ND	mg/Kg	500	500	VQQ
01NE31SS220 Depth 0	Surface Soil to 0.5 feet bgs	AK102	DRO	2200	mg/Kg	500	47	
		AK103	RRO	8200	mg/Kg	1000	1000	VJ
01NE31SS221	Surface Soil Depth 0 to 0.5 feet bgs	AK101	GRO	ND	mg/Kg	7.16	2.48	
		AK102	DRO	39	mg/Kg	20	3.1	
		AK103	RRO	340	mg/Kg	40	40	VJ
		SW8260 SIM	Benzene	ND	mg/Kg	0.0035	0.0035	
			Ethylbenzene	ND	mg/Kg	0.0035	0.0017	
			m,p-Xylene (sum)	0.009	mg/Kg	0.0069	0.0069	
			o-Xylene	ND	mg/Kg	0.0035	0.0029	
			Toluene	0.014	mg/Kg	0.0035	0.0033	
01NE31SW101	Surface Water	AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW6010B	Aluminum	0.05	mg/L	0.02	0.012	

Summary of Analytical Results Site 31
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE31SW101	Surface Water	SW6010B	Antimony	ND	mg/L	0.05	0.014	
			Barium	ND	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	2.21	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	
			Cobalt	ND	mg/L	0.003	0.0006	
			Copper	ND	mg/L	0.002	0.002	
			Iron	0.03	mg/L	0.02	0.0063	
			Magnesium	0.85	mg/L	0.02	0.0084	
			Manganese	0.005	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	ND	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	4.17	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	ND	mg/L	0.006	0.0029	
		SW7060A	Arsenic	ND	mg/L	0.001	0.00054	
		SW7421	Lead	ND	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8021	Benzene	ND	mg/L	0.001	0.0002	
			Ethylbenzene	ND	mg/L	0.001	0.00019	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00021	
			o-Xylene	ND	mg/L	0.001	0.00015	
			Toluene	ND	mg/L	0.001	0.0002	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/L	0.00005	0.00005	
			Acenaphthene	ND	mg/L	0.00005	0.00004	
			Acenaphthylene	ND	mg/L	0.00005	0.00005	
			Anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)pyrene	ND	mg/L	0.00005	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	0.00005	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	0.00005	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	0.00005	0.00002	
			Chrysene	ND	mg/L	0.00005	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	0.00005	0.00005	
			Dibenzofuran	ND	mg/L	0.00005	0.00005	
			Fluoranthene	ND	mg/L	0.00005	0.00005	
			Fluorene	ND	mg/L	0.00005	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.00005	0.00004	
			Naphthalene	ND	mg/L	0.00005	0.00005	
			Phenanthrene	ND	mg/L	0.00005	0.00004	
			Pyrene	ND	mg/L	0.00005	0.00005	
01NE31SW102	Surface Water	AK101	GRO	ND	mg/L	0.25	0.1	
		AK102	DRO	ND	mg/L	0.25	0.02	
		AK103	RRO	ND	mg/L	0.5	0.5	VQQ
		SW6010B	Aluminum	ND	mg/L	0.02	0.012	
			Antimony	ND	mg/L	0.05	0.014	
			Barium	0.003	mg/L	0.003	0.0004	
			Beryllium	ND	mg/L	0.001	0.0003	
			Cadmium	ND	mg/L	0.002	0.00084	
			Calcium	2.06	mg/L	0.05	0.0003	
			Chromium	ND	mg/L	0.005	0.0013	
			Cobalt	ND	mg/L	0.003	0.0006	
			Copper	ND	mg/L	0.002	0.002	

Summary of Analytical Results Site 31
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE31SW102	Surface Water	SW6010B	Iron	ND	mg/L	0.02	0.0063	
			Magnesium	0.8	mg/L	0.02	0.0084	
			Manganese	0.001	mg/L	0.001	0.0003	
			Nickel	ND	mg/L	0.01	0.0034	
			Potassium	ND	mg/L	0.5	0.38	
			Silver	ND	mg/L	0.003	0.0007	
			Sodium	4.09	mg/L	0.05	0.015	
			Vanadium	ND	mg/L	0.003	0.0017	
			Zinc	ND	mg/L	0.006	0.0029	
		SW7060A	Arsenic	ND	mg/L	0.001	0.00054	
		SW7421	Lead	ND	mg/L	0.001	0.00086	
		SW7470A	Mercury	ND	mg/L	0.0001	0.00003	
		SW7740	Selenium	ND	mg/L	0.002	0.00083	
		SW7841	Thallium	ND	mg/L	0.001	0.00081	
		SW8021	Benzene	ND	mg/L	0.001	0.0002	
			Ethylbenzene	ND	mg/L	0.001	0.00019	
			m,p-Xylene (sum)	ND	mg/L	0.001	0.00021	
			o-Xylene	ND	mg/L	0.001	0.00015	
			Toluene	ND	mg/L	0.001	0.0002	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/L	0.00005	0.00005	
			Acenaphthene	ND	mg/L	0.00005	0.00004	
			Acenaphthylene	ND	mg/L	0.00005	0.00005	
			Anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)anthracene	ND	mg/L	0.00005	0.00002	
			Benzo(a)pyrene	ND	mg/L	0.00005	0.00001	
			Benzo(b)fluoranthene	ND	mg/L	0.00005	0.00002	
			Benzo(g,h,i)perylene	ND	mg/L	0.00005	0.00004	
			Benzo(k)fluoranthene	ND	mg/L	0.00005	0.00002	
			Chrysene	ND	mg/L	0.00005	0.00001	
			Dibenzo(a,h)anthracene	ND	mg/L	0.00005	0.00005	
			Dibenzofuran	ND	mg/L	0.00005	0.00005	
			Fluoranthene	ND	mg/L	0.00005	0.00005	
			Fluorene	ND	mg/L	0.00005	0.00005	
			Indeno(1,2,3-cd)pyrene	ND	mg/L	0.00005	0.00004	
			Naphthalene	ND	mg/L	0.00005	0.00005	
			Phenanthrene	ND	mg/L	0.00005	0.00004	
			Pyrene	ND	mg/L	0.00005	0.00005	

Key:
DRO - diesel range organics
MDL - method detection limit
mg/L - milligram per liter
mg/Kg - milligram per kilogram
MRL - method reporting limit
ND - not detected
RRO - residual range organics
SIM - selected ion monitoring
VB - The analyte was detected in the assoicated blank and the sample indicating possible contamination.
VJ - The analyte was positively identified; the quantitaion is an estimation.
VQQ - The practical quantation limit is approximate due to QC or matrix effects.

Summary of Analytical Results Site 32
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE32SS101	Surface Soil	AK102	DRO	7600	mg/Kg	1000	99	
Depth 0	to 0.5 feet bgs	AK103	RRO	ND	mg/Kg	2000	2000	VQQ
01NE32SS102	Suburface Soil	AK102	DRO	13000	mg/Kg	1000	100	
Depth 1.5	to 2 feet bgs	AK103	RRO	ND	mg/Kg	2000	2000	VQQ
01NE32SS103	Surface Soil	AK102	DRO	230	mg/Kg	100	12	
	Depth 0	AK103	RRO	1100	mg/Kg	200	200	VJ
	to 0.5 feet bgs	SW8081	4,4'-DDD	ND	mg/Kg	0.0043	0.0002	
			4,4'-DDE	ND	mg/Kg	0.0043	0.00017	
			4,4'-DDT	ND	mg/Kg	0.0043	0.0003	
			Aldrin	ND	mg/Kg	0.0022	0.000078	
			alpha-BHC	ND	mg/Kg	0.0022	0.00012	
			alpha-Chlordane	ND	mg/Kg	0.0022	0.000065	
			beta-BHC	ND	mg/Kg	0.0022	0.00013	
			delta-BHC	ND	mg/Kg	0.0022	0.000095	
			Dieldrin	ND	mg/Kg	0.0043	0.00013	
			Endosulfan I	ND	mg/Kg	0.0022	0.00012	
			Endosulfan II	ND	mg/Kg	0.0043	0.00027	
			Endosulfan sulfate	ND	mg/Kg	0.0043	0.00036	
			Endrin	ND	mg/Kg	0.0043	0.00013	
			Endrin aldehyde	ND	mg/Kg	0.0043	0.00025	
			Endrin ketone	ND	mg/Kg	0.0043	0.00044	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0022	0.000091	
			gamma-Chlordane	ND	mg/Kg	0.0022	0.000082	
			Heptachlor	ND	mg/Kg	0.0022	0.000095	
			Heptachlor epoxide	ND	mg/Kg	0.0022	0.000095	
			Methoxychlor	ND	mg/Kg	0.022	0.0013	
			PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.043	0.012	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.087	0.015	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.043	0.006	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.043	0.007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.043	0.0047	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.043	0.014	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.043	0.011	
			Toxaphene	ND	mg/Kg	0.22	0.0098	
01NE32SS104	Surface Soil	AK102	DRO	600	mg/Kg	100	9.3	
	Depth 0	AK103	RRO	1200	mg/Kg	200	200	VJ
	to 0.5 feet bgs	SW8081	4,4'-DDD	ND	mg/Kg	0.0035	0.00016	
			4,4'-DDE	ND	mg/Kg	0.0035	0.00014	
			4,4'-DDT	ND	mg/Kg	0.0086	0.00024	
			Aldrin	ND	mg/Kg	0.0017	0.000062	
			alpha-BHC	ND	mg/Kg	0.0017	0.000094	
			alpha-Chlordane	ND	mg/Kg	0.0017	0.000052	
			beta-BHC	ND	mg/Kg	0.0017	0.0001	
			delta-BHC	ND	mg/Kg	0.0017	0.000076	
			Dieldrin	ND	mg/Kg	0.0035	0.0001	
			Endosulfan I	ND	mg/Kg	0.0017	0.000094	
			Endosulfan II	ND	mg/Kg	0.0035	0.00022	
			Endosulfan sulfate	ND	mg/Kg	0.0088	0.00029	
			Endrin	ND	mg/Kg	0.0035	0.0001	
			Endrin aldehyde	ND	mg/Kg	0.0035	0.0002	
			Endrin ketone	ND	mg/Kg	0.0035	0.00035	
			gamma-BHC (Lindane)	ND	mg/Kg	0.0017	0.000073	
			gamma-Chlordane	ND	mg/Kg	0.0017	0.000066	
			Heptachlor	ND	mg/Kg	0.0017	0.000076	
			Heptachlor epoxide	ND	mg/Kg	0.0017	0.000076	
			Methoxychlor	ND	mg/Kg	0.017	0.001	
01NE32SS104	Surface Soil	SW8081	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.035	0.0093	

Summary of Analytical Results Site 32
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
	Depth 0 to 0.5 feet bgs		PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.069	0.012	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.035	0.0048	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.035	0.0056	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.035	0.0037	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.035	0.011	
			PCB-1260 (Aroclor 1260)	0.16	mg/Kg	0.035	0.0091	
			Toxaphene	ND	mg/Kg	0.17	0.0078	
01NE32SS105	Surface Soil Depth 0 to 0.5 feet bgs	AK102	DRO	1000	mg/Kg	100	9.7	
		AK103	RRO	3600	mg/Kg	200	200	VJ
		SW8081	4,4'-DDD	ND	mg/Kg	0.0036	0.00016	VQQ
			4,4'-DDE	ND	mg/Kg	0.0036	0.00014	VQQ
			4,4'-DDT	ND	mg/Kg	0.037	0.00025	VQQ
			Aldrin	ND	mg/Kg	0.0018	0.000065	VQQ
			alpha-BHC	ND	mg/Kg	0.0018	0.000097	VQQ
			alpha-Chlordane	ND	mg/Kg	0.0018	0.000054	VQQ
			beta-BHC	ND	mg/Kg	0.0018	0.00011	VQQ
			delta-BHC	ND	mg/Kg	0.0018	0.000079	VQQ
			Dieldrin	ND	mg/Kg	0.011	0.00011	VQQ
			Endosulfan I	ND	mg/Kg	0.0018	0.000097	VQQ
			Endosulfan II	ND	mg/Kg	0.0036	0.00022	VQQ
			Endosulfan sulfate	ND	mg/Kg	0.0073	0.0003	VQQ
			Endrin	ND	mg/Kg	0.0036	0.00011	VQQ
			Endrin aldehyde	ND	mg/Kg	0.0078	0.00021	VQQ
			Endrin ketone	ND	mg/Kg	0.0036	0.00037	VQQ
			gamma-BHC (Lindane)	ND	mg/Kg	0.0018	0.000076	VQQ
			gamma-Chlordane	ND	mg/Kg	0.0028	0.000068	VQQ
			Heptachlor	ND	mg/Kg	0.0018	0.000079	VQQ
			Heptachlor epoxide	ND	mg/Kg	0.0018	0.000079	VQQ
			Methoxychlor	ND	mg/Kg	0.0031	0.0011	VQQ
			PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.036	0.0096	VQQ
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.072	0.012	VQQ
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.036	0.005	VQQ
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.036	0.0058	VQQ
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.036	0.0039	VQQ
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.036	0.012	VQQ
			PCB-1260 (Aroclor 1260)	0.89	mg/Kg	0.036	0.0094	VLB
			Toxaphene	ND	mg/Kg	0.18	0.0081	VQQ

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mg/L - milligram per liter
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MRL - method reporting limit
ND - not detected
RRO - residual range organics
SIM - selected ion monitoring
VB - The analyte was detected in the assoicated blank and the sample indicating possible contamination.
VJ - The analyte was positively identified; the quantitaion is an estimation.
VQQ - The practical quantation limit is approximate due to QC or matrix effects.

Summary of Analytical Results Site 33
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE33SS101	Surface Soil Depth 0 to 0.5 feet bgs	AK102	DRO	170	mg/Kg	20	1.9	
		AK103	RRO	300	mg/Kg	40	40	VJ
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.036	0.00967	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.072	0.0116	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.036	0.005	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.036	0.00591	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.036	0.00388	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.036	0.0117	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.036	0.00949	
01NE33SS102	Surface Soil Depth 0 to 0.5 feet bgs	AK102	DRO	150	mg/Kg	20	2.1	
		AK103	RRO	270	mg/Kg	40	40	VJ
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.039	0.0103	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.077	0.0124	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.039	0.00533	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.039	0.00629	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.039	0.00413	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.039	0.0125	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.039	0.0101	
01NE33SS103	Surface Soil Depth 0 to 0.5 feet bgs	AK102	DRO	660	mg/Kg	100	9.8	
		AK103	RRO	2100	mg/Kg	200	200	VJ
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.036	0.00968	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.073	0.0116	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.036	0.005	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.036	0.00591	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.036	0.00388	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.036	0.0117	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.036	0.0095	

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mg/L - milligram per liter
mg/Kg - milligram per kilogram
MRL - method reporting limit
ND - not detected
RRO - residual range organics
SIM - selected ion monitoring
VB - The analyte was detected in the assoicated blank and the sample indicating possible contamination.
VJ - The analyte was positively identified; the quantitaion is an estimation.
VQQ - The practical quantation limit is approximate due to QC or matrix effects.

Summary of Analytical Results Site 34
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE34SS101	Surface Soil Depth 0 to 0.5 feet bgs	AK102	DRO	47	mg/Kg	5	0.6	
		AK103	RRO	150	mg/Kg	10	10	VJ
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.045	0.0119	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.089	0.0143	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.045	0.00615	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.045	0.00726	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.045	0.00477	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.045	0.0144	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.045	0.0117	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.0026	0.0026	VQQ
			Acenaphthene	ND	mg/Kg	0.0026	0.0018	VQQ
			Acenaphthylene	ND	mg/Kg	0.0026	0.0017	VQQ
			Anthracene	ND	mg/Kg	0.0026	0.0017	VQQ
			Benzo(a)anthracene	ND	mg/Kg	0.0026	0.0015	VQQ
			Benzo(a)pyrene	ND	mg/Kg	0.0026	0.0013	VQQ
			Benzo(b)fluoranthene	ND	mg/Kg	0.0026	0.0017	VQQ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0026	0.0015	VQQ
			Benzo(k)fluoranthene	ND	mg/Kg	0.0026	0.0013	VQQ
			Chrysene	ND	mg/Kg	0.0026	0.0012	VQQ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0026	0.0013	VQQ
			Dibenzofuran	ND	mg/Kg	0.0026	0.0026	VQQ
			Fluoranthene	ND	mg/Kg	0.0026	0.0013	VQQ
			Fluorene	ND	mg/Kg	0.0026	0.002	VQQ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0026	0.0018	VQQ
			Naphthalene	ND	mg/Kg	0.0026	0.0025	VQQ
			Phenanthrene	ND	mg/Kg	0.0026	0.0017	VQQ
			Pyrene	ND	mg/Kg	0.0026	0.0015	VQQ
01NE34SS102	Surface Soil Depth 0 to 0.5 feet bgs	AK102	DRO	14	mg/Kg	5	0.55	
		AK103	RRO	77	mg/Kg	10	10	VJ
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.041	0.011	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.082	0.0131	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.041	0.00567	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.041	0.00669	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.041	0.00439	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.041	0.0133	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.041	0.0108	
		SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.0024	0.0024	
			Acenaphthene	ND	mg/Kg	0.0024	0.0016	
			Acenaphthylene	ND	mg/Kg	0.0024	0.0016	
			Anthracene	ND	mg/Kg	0.0024	0.0016	
			Benzo(a)anthracene	ND	mg/Kg	0.0024	0.0013	
			Benzo(a)pyrene	ND	mg/Kg	0.0024	0.0012	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0024	0.0016	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0024	0.0013	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0024	0.0012	
			Chrysene	ND	mg/Kg	0.0024	0.0011	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0024	0.0012	
			Dibenzofuran	ND	mg/Kg	0.0024	0.0024	
			Fluoranthene	ND	mg/Kg	0.0024	0.0012	
			Fluorene	ND	mg/Kg	0.0024	0.0018	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0024	0.0017	
			Naphthalene	ND	mg/Kg	0.0024	0.0023	
			Phenanthrene	ND	mg/Kg	0.0024	0.0016	
			Pyrene	ND	mg/Kg	0.0024	0.0014	
01NE34SS103	Surface Soil Depth 0 to 0.5 feet bgs	AK102	DRO	13	mg/Kg	5	0.54	
		AK103	RRO	76	mg/Kg	10	10	VJ
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.04	0.0108	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.081	0.0129	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.04	0.00556	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.04	0.00657	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.04	0.00431	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.04	0.013	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.04	0.0106	

Summary of Analytical Results Site 34
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE34SS103	Surface Soil Depth 0 to 0.5 feet bgs	SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.0024	0.0024	
			Acenaphthene	ND	mg/Kg	0.0024	0.0016	
			Acenaphthylene	ND	mg/Kg	0.0024	0.0016	
			Anthracene	ND	mg/Kg	0.0024	0.0016	
			Benzo(a)anthracene	ND	mg/Kg	0.0024	0.0013	
			Benzo(a)pyrene	ND	mg/Kg	0.0024	0.0011	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0024	0.0015	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0024	0.0013	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0024	0.0012	
			Chrysene	ND	mg/Kg	0.0024	0.0011	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0024	0.0011	
			Dibenzofuran	ND	mg/Kg	0.0024	0.0024	
			Fluoranthene	ND	mg/Kg	0.0024	0.0012	
			Fluorene	ND	mg/Kg	0.0024	0.0018	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0024	0.0016	
			Naphthalene	ND	mg/Kg	0.0024	0.0022	
			Phenanthrene	ND	mg/Kg	0.0024	0.0015	
			Pyrene	ND	mg/Kg	0.0024	0.0014	
01NE34SS104	Surface Soil Depth 0 to 0.5 feet bgs	SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.038	0.0101	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.076	0.0121	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.038	0.00521	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.038	0.00616	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.038	0.00404	
			PCB-1254 (Aroclor 1254)	0.59	mg/Kg	0.038	0.0122	
			PCB-1260 (Aroclor 1260)	0.47	mg/Kg	0.038	0.0099	
01NE34SS105 Depth 0	Surface Soil to 0.5 feet bgs	AK102	DRO	980	mg/Kg	50	5.1	
		AK103	RRO	ND	mg/Kg	100	100	VQQ
01NE34SS106 Depth 0	Surface Soil to 0.5 feet bgs	AK102	DRO	1100	mg/Kg	50	4.9	
		AK103	RRO	58	mg/Kg	40	40	VJ
01NE34SS107	Surface Soil Depth 0 to 0.5 feet bgs	AK102	DRO	41	mg/Kg	5	0.5	
		AK103	RRO	95	mg/Kg	10	10	VJ
		DU	Total Organic Carbon (TOC)	1.7	PERCENT	0.005	0.005	
		E160.3	Total Solids	87.5	PERCENT	0.01	0.01	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.037	0.00999	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.075	0.012	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.037	0.00516	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.037	0.0061	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.037	0.004	
			PCB-1254 (Aroclor 1254)	0.05	mg/Kg	0.037	0.0121	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.037	0.0098	
01NE34SS108	Surface Soil Depth 0 to 0.5 feet bgs	AK102	DRO	220	mg/Kg	20	2.3	
		AK103	RRO	280	mg/Kg	40	40	VJ
		DU	Total Organic Carbon (TOC)	5.7	PERCENT	0.005	0.005	
		E160.3	Total Solids	83.9	PERCENT	0.01	0.01	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.043	0.0114	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.085	0.0137	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.043	0.00589	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.043	0.00696	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.043	0.00457	
			PCB-1254 (Aroclor 1254)	0.25	mg/Kg	0.043	0.0138	
			PCB-1260 (Aroclor 1260)	0.11	mg/Kg	0.043	0.0112	
01NE34SS109	Surface Soil Depth 0 to 0.5 feet bgs	AK102	DRO	300	mg/Kg	50	5.3	
		AK103	RRO	1200	mg/Kg	100	100	VJ
		DU	Total Organic Carbon (TOC)	6.4	PERCENT	0.005	0.005	
		E160.3	Total Solids	77.2	PERCENT	0.01	0.01	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.039	0.0104	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.078	0.0125	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.039	0.0054	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.039	0.00637	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.039	0.00418	
			PCB-1254 (Aroclor 1254)	0.15	mg/Kg	0.039	0.0126	
			PCB-1260 (Aroclor 1260)	0.063	mg/Kg	0.039	0.0102	

Summary of Analytical Results Site 34
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE34SS110	Surface Soil	AK102	DRO	230	mg/Kg	50	5.6	
01NE34SS110	Surface Soil	AK103	RRO	620	mg/Kg	100	100	VJ
	Depth 0	DU	Total Organic Carbon (TOC)	7.2	PERCENT	0.005	0.005	
	to 0.5 feet bgs	E160.3	Total Solids	80.4	PERCENT	0.01	0.01	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.041	0.011	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.083	0.0132	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.041	0.0057	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.041	0.00674	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.041	0.00442	
			PCB-1254 (Aroclor 1254)	0.17	mg/Kg	0.041	0.0133	
			PCB-1260 (Aroclor 1260)	0.064	mg/Kg	0.041	0.0108	
01NE34SS111	Surface Soil	AK102	DRO	7.1	mg/Kg	5	0.48	
	Depth 0	AK103	RRO	30	mg/Kg	10	10	VJ
	to 0.5 feet bgs	SW8270 SIM	2-Methylnaphthalene	ND	mg/Kg	0.0021	0.0021	
			Acenaphthene	ND	mg/Kg	0.0021	0.0014	
			Acenaphthylene	ND	mg/Kg	0.0021	0.0014	
			Anthracene	ND	mg/Kg	0.0021	0.0014	
			Benzo(a)anthracene	ND	mg/Kg	0.0021	0.0012	
			Benzo(a)pyrene	ND	mg/Kg	0.0021	0.001	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0021	0.0014	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0021	0.0012	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0021	0.001	
			Chrysene	ND	mg/Kg	0.0021	0.00098	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0021	0.001	
			Dibenzofuran	ND	mg/Kg	0.0021	0.0021	
			Fluoranthene	ND	mg/Kg	0.0021	0.0011	
			Fluorene	ND	mg/Kg	0.0021	0.0016	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0021	0.0014	
			Naphthalene	ND	mg/Kg	0.0021	0.002	
			Phenanthrene	ND	mg/Kg	0.0021	0.0014	
			Pyrene	ND	mg/Kg	0.0021	0.0012	

Key:
DRO - diesel range organics
MDL - method detection limit
mg/L - milligram per liter
mg/Kg - milligram per kilogram
MRL - method reporting limit
ND - not detected
RRO - residual range organics
SIM - selected ion monitoring
VB - The analyte was detected in the assoicated blank and the sample indicating possible contamination.
VJ - The analyte was positively identified; the quantitaion is an estimation.
VQQ - The practical quantation limit is approximate due to QC or matrix effects.

Summary of Analytical Results for Trip Blanks
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE00TB101	Soil	SW8260 SIM	Benzene	ND	mg/Kg	0.005	0.005	
			Ethylbenzene	0.0084	mg/Kg	0.005	0.0024	
			m,p-Xylene (Sum of Isomers)	0.031	mg/Kg	0.01	0.01	
			o-Xylene	0.01	mg/Kg	0.005	0.0042	
			Toluene	0.046	mg/Kg	0.005	0.0048	
		AK101	Gasoline Range Organics	ND	mg/Kg	5.48	1.9	
		E160.3	Total Solids	100	PERCENT	0.01	0.01	
01NE00TB102	Water	AK101	Gasoline Range Organics	ND	mg/L	0.25	0.1	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroetha	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.0028	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.0011	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.0014	
			Acetone	ND	mg/L	0.005	0.003	
			Acrolein	ND	mg/L	0.05	0.0041	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	

Summary of Analytical Results for Trip Blanks
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE00TB102	Water	SW8260	Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (Sum of Isomers)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE00TB103	Water	AK101	Gasoline Range Organics	ND	mg/L	0.25	0.1	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroetha	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.0028	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.0011	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.0014	
			Acetone	ND	mg/L	0.005	0.003	
			Acrolein	ND	mg/L	0.05	0.0041	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	

Summary of Analytical Results for Trip Blanks
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE00TB103	Water	SW8260	Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (Sum of Isomers)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE00TB104	Soil	SW8260 SIM	Benzene	ND	mg/Kg	0.005	0.005	
			Ethylbenzene	0.008	mg/Kg	0.005	0.0024	
			m,p-Xylene (Sum of Isomers)	0.03	mg/Kg	0.01	0.01	
			o-Xylene	0.0098	mg/Kg	0.005	0.0042	
			Toluene	0.045	mg/Kg	0.005	0.0048	
		AK101	Gasoline Range Organics	ND	mg/Kg	24	8.32	
		E160.3	Total Solids	100	PERCENT	0.01	0.01	
01NE00TB108	Water	AK101	Gasoline Range Organics	ND	mg/L	0.25	0.1	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroetha	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	

Summary of Analytical Results for Trip Blanks
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE00TB108	Water	SW8260	1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.0028	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.0011	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.0014	
			Acetone	ND	mg/L	0.005	0.003	
			Acrolein	ND	mg/L	0.05	0.0041	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (Sum of Isomers)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE00TB109	Soil	SW8260 SIM	Benzene	ND	mg/Kg	0.049	0.049	
			Ethylbenzene	0.087	mg/Kg	0.049	0.024	
			m,p-Xylene (Sum of Isomers)	0.33	mg/Kg	0.097	0.097	
			o-Xylene	0.1	mg/Kg	0.049	0.041	
			Toluene	0.44	mg/Kg	0.049	0.046	
		AK101	Gasoline Range Organics	ND	mg/Kg	24	8.32	

Summary of Analytical Results for Trip Blanks
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE00TB109	Soil	E160.3	Total Solids	10.27	PERCENT	0.01	0.01	
01NE00TB111	Soil	SW8260 SIM	Benzene	ND	mg/Kg	0.005	0.005	
		AK101	Gasoline Range Organics	ND	mg/Kg	24	8.32	
		E160.3	Total Solids	100	PERCENT	0.01	0.01	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.05	0.02	
			1,1,1-Trichloroethane	ND	mg/Kg	0.05	0.014	
			1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.05	0.033	
			1,1,2-Trichloro-1,2,2-trifluoroetha	ND	mg/Kg	0.05	0.012	
			1,1,2-Trichloroethane	ND	mg/Kg	0.05	0.014	
			1,1-Dichloroethane	ND	mg/Kg	0.05	0.018	
			1,1-Dichloroethene	ND	mg/Kg	0.05	0.016	
			1,1-Dichloropropene	ND	mg/Kg	0.05	0.014	
			1,2,3-Trichlorobenzene	ND	mg/Kg	0.25	0.023	
			1,2,3-Trichloropropane	ND	mg/Kg	0.1	0.029	
			1,2,4-Trichlorobenzene	ND	mg/Kg	0.25	0.022	
			1,2,4-Trimethylbenzene	ND	mg/Kg	0.05	0.019	
			1,2-Dibromo-3-chloropropane	ND	mg/Kg	0.25	0.036	
			1,2-Dibromoethane	ND	mg/Kg	0.05	0.015	
			1,2-Dichlorobenzene	ND	mg/Kg	0.05	0.022	
			1,2-Dichloroethane	ND	mg/Kg	0.05	0.01	
			1,2-Dichloropropane	ND	mg/Kg	0.05	0.012	
			1,3,5-Trimethylbenzene	ND	mg/Kg	0.05	0.02	
			1,3-Dichlorobenzene	ND	mg/Kg	0.05	0.018	
			1,3-Dichloropropane	ND	mg/Kg	0.05	0.02	
			1,4-Dichlorobenzene	ND	mg/Kg	0.05	0.02	
			2,2-Dichloropropane	ND	mg/Kg	0.05	0.018	
			2-Butanone	ND	mg/Kg	0.25	0.23	
			2-Chloroethyl vinyl ether	ND	mg/Kg	0.25	0.022	
			2-Chlorotoluene	ND	mg/Kg	0.05	0.031	
			2-Hexanone	ND	mg/Kg	0.25	0.2	
			4-Chlorotoluene	ND	mg/Kg	0.05	0.019	
			4-Isopropyltoluene	ND	mg/Kg	0.05	0.02	
			4-Methyl-2-pentanone	ND	mg/Kg	0.25	0.15	
			Acetone	ND	mg/Kg	0.25	0.23	
			Acrolein	ND	mg/Kg	2.5	0.32	
			Acrylamide	ND	mg/Kg	0.25	0.036	
			Bromobenzene	ND	mg/Kg	0.05	0.02	
			Bromochloromethane	ND	mg/Kg	0.05	0.018	
			Bromodichloromethane	ND	mg/Kg	0.05	0.008	
			Bromoethane	ND	mg/Kg	0.1	0.021	
			Bromoform	ND	mg/Kg	0.05	0.016	
			Bromomethane	0.09	mg/Kg	0.05	0.032	VB
			Carbon disulfide	ND	mg/Kg	0.05	0.014	
			Carbon tetrachloride	ND	mg/Kg	0.05	0.012	
			Chlorobenzene	ND	mg/Kg	0.05	0.017	
			Chloroethane	ND	mg/Kg	0.05	0.017	
			Chloroform	ND	mg/Kg	0.05	0.014	
			Chloromethane	ND	mg/Kg	0.05	0.014	
			cis-1,2-Dichloroethene	ND	mg/Kg	0.05	0.014	
			cis-1,3-Dichloropropene	ND	mg/Kg	0.05	0.012	
			Dibromochloromethane	ND	mg/Kg	0.05	0.014	
			Dibromomethane	ND	mg/Kg	0.05	0.014	
			Ethylbenzene	ND	mg/Kg	0.05	0.018	
			Hexachlorobutadiene	ND	mg/Kg	0.25	0.066	
			Isopropylbenzene	ND	mg/Kg	0.05	0.021	
			m,p-Xylene (Sum of Isomers)	ND	mg/Kg	0.05	0.037	
			Methyl iodide	ND	mg/Kg	0.05	0.022	
			Methylene chloride	ND	mg/Kg	0.15	0.11	
			Naphthalene	ND	mg/Kg	0.25	0.036	

Summary of Analytical Results for Trip Blanks
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE00TB111	Soil	SW8260	n-Butylbenzene	ND	mg/Kg	0.1	0.022	
			n-Propylbenzene	ND	mg/Kg	0.05	0.019	
			o-Xylene	ND	mg/Kg	0.05	0.016	
			sec-Butylbenzene	ND	mg/Kg	0.05	0.024	
			Styrene	ND	mg/Kg	0.05	0.014	
			tert-Butylbenzene	ND	mg/Kg	0.05	0.022	
			Tetrachloroethene	ND	mg/Kg	0.05	0.026	
			Toluene	0.061	mg/Kg	0.05	0.016	
			trans-1,2-Dichloroethene	ND	mg/Kg	0.05	0.016	
			trans-1,3-Dichloropropene	ND	mg/Kg	0.05	0.011	
			trans-1,4-Dichloro-2-butene	ND	mg/Kg	0.25	0.019	
			Trichloroethene	ND	mg/Kg	0.05	0.018	
			Trichlorofluoromethane	ND	mg/Kg	0.05	0.02	
			Vinyl acetate	ND	mg/Kg	0.25	0.034	
			Vinyl chloride	ND	mg/Kg	0.05	0.018	
01NE00TB113	Water	AK101	Gasoline Range Organics	ND	mg/L	0.25	0.1	
01NE00TB114	Soil	SW8260 SIM	Benzene	ND	mg/Kg	0.005	0.005	
			Ethylbenzene	0.0071	mg/Kg	0.005	0.0024	
			m,p-Xylene (Sum of Isomers)	0.028	mg/Kg	0.01	0.01	
			o-Xylene	0.0083	mg/Kg	0.005	0.0042	
			Toluene	0.044	mg/Kg	0.005	0.0048	
		AK101	Gasoline Range Organics	ND	mg/Kg	24	8.32	
		E160.3	Total Solids	100	PERCENT	0.01	0.01	
01NE00TB115	Water	AK101	Gasoline Range Organics	ND	mg/L	0.25	0.1	
		SW8021	Benzene	ND	mg/L	0.001	0.0002	
			Ethylbenzene	ND	mg/L	0.001	0.00019	
			m,p-Xylene (Sum of Isomers)	ND	mg/L	0.001	0.00021	
			o-Xylene	ND	mg/L	0.001	0.00015	
			Toluene	ND	mg/L	0.001	0.0002	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroetha	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.0028	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.0011	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.0014	
			Acetone	ND	mg/L	0.005	0.003	

Summary of Analytical Results for Trip Blanks
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE00TB115	Water	SW8260	Acrolein	ND	mg/L	0.05	0.0041	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (Sum of Isomers)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE00TB116	Water	AK101	Gasoline Range Organics	ND	mg/L	0.25	0.1	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroethar	ND	mg/L	0.002	0.0003	
			1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	

Summary of Analytical Results for Trip Blanks
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE00TB116	Water	SW8260	1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.0028	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.0011	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.0014	
			Acetone	ND	mg/L	0.005	0.003	
			Acrolein	ND	mg/L	0.05	0.0041	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	ND	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (Sum of Isomers)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	
			Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	
01NE00TB118	Water	AK101	Gasoline Range Organics	ND	mg/L	0.25	0.1	
		SW8260	1,1,1,2-Tetrachloroethane	ND	mg/L	0.001	0.00026	
			1,1,1-Trichloroethane	ND	mg/L	0.001	0.0004	
			1,1,2,2-Tetrachloroethane	ND	mg/L	0.001	0.00032	
			1,1,2-Trichloro-1,2,2-trifluoroetha	ND	mg/L	0.002	0.0003	

Summary of Analytical Results for Trip Blanks
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE00TB118	Water	SW8260	1,1,2-Trichloroethane	ND	mg/L	0.001	0.00039	
			1,1-Dichloroethane	ND	mg/L	0.001	0.00049	
			1,1-Dichloroethene	ND	mg/L	0.001	0.00049	
			1,1-Dichloropropene	ND	mg/L	0.001	0.00028	
			1,2,3-Trichlorobenzene	ND	mg/L	0.005	0.00035	
			1,2,3-Trichloropropane	ND	mg/L	0.003	0.00092	
			1,2,4-Trichlorobenzene	ND	mg/L	0.005	0.00049	
			1,2,4-Trimethylbenzene	ND	mg/L	0.001	0.00034	
			1,2-Dibromo-3-chloropropane	ND	mg/L	0.005	0.00097	
			1,2-Dibromoethane	ND	mg/L	0.001	0.00033	
			1,2-Dichlorobenzene	ND	mg/L	0.001	0.00038	
			1,2-Dichloroethane	ND	mg/L	0.001	0.00037	
			1,2-Dichloropropane	ND	mg/L	0.001	0.00042	
			1,3,5-Trimethylbenzene	ND	mg/L	0.001	0.00043	
			1,3-Dichlorobenzene	ND	mg/L	0.001	0.00044	
			1,3-Dichloropropane	ND	mg/L	0.001	0.00024	
			1,4-Dichlorobenzene	ND	mg/L	0.001	0.0004	
			2,2-Dichloropropane	ND	mg/L	0.001	0.00037	
			2-Butanone	ND	mg/L	0.005	0.0028	
			2-Chloroethyl vinyl ether	ND	mg/L	0.005	0.00019	
			2-Chlorotoluene	ND	mg/L	0.001	0.00046	
			2-Hexanone	ND	mg/L	0.005	0.0011	
			4-Chlorotoluene	ND	mg/L	0.001	0.00059	
			4-Isopropyltoluene	ND	mg/L	0.001	0.00026	
			4-Methyl-2-pentanone	ND	mg/L	0.005	0.0014	
			Acetone	ND	mg/L	0.005	0.003	
			Acrolein	ND	mg/L	0.05	0.0041	
			Acrylamide	ND	mg/L	0.001	0.00078	
			Benzene	ND	mg/L	0.001	0.00043	
			Bromobenzene	ND	mg/L	0.001	0.00058	
			Bromochloromethane	ND	mg/L	0.001	0.00058	
			Bromodichloromethane	ND	mg/L	0.001	0.00034	
			Bromoethane	ND	mg/L	0.002	0.00064	
			Bromoform	ND	mg/L	0.001	0.00031	
			Bromomethane	ND	mg/L	0.001	0.00058	
			Carbon disulfide	ND	mg/L	0.001	0.00036	
			Carbon tetrachloride	ND	mg/L	0.001	0.00045	
			Chlorobenzene	ND	mg/L	0.001	0.00036	
			Chloroethane	ND	mg/L	0.001	0.00051	
			Chloroform	ND	mg/L	0.001	0.00053	
			Chloromethane	0.0032	mg/L	0.001	0.00056	
			cis-1,2-Dichloroethene	ND	mg/L	0.001	0.00039	
			cis-1,3-Dichloropropene	ND	mg/L	0.001	0.00027	
			Dibromochloromethane	ND	mg/L	0.001	0.00024	
			Dibromomethane	ND	mg/L	0.001	0.00053	
			Ethylbenzene	ND	mg/L	0.001	0.00035	
			Hexachlorobutadiene	ND	mg/L	0.005	0.00058	
			Isopropylbenzene	ND	mg/L	0.001	0.00037	
			m,p-Xylene (Sum of Isomers)	ND	mg/L	0.001	0.00061	
			Methyl iodide	ND	mg/L	0.001	0.00061	
			Methylene chloride	ND	mg/L	0.002	0.00069	
			Naphthalene	ND	mg/L	0.005	0.00028	
			n-Butylbenzene	ND	mg/L	0.001	0.00026	
			n-Propylbenzene	ND	mg/L	0.001	0.00043	
			o-Xylene	ND	mg/L	0.001	0.00035	
			sec-Butylbenzene	ND	mg/L	0.001	0.00025	
			Styrene	ND	mg/L	0.001	0.00028	
			tert-Butylbenzene	ND	mg/L	0.001	0.00035	
			Tetrachloroethene	ND	mg/L	0.001	0.00031	

Summary of Analytical Results for Trip Blanks
2001 Sampling Event

Sample ID	Matrix	Method	Analyte	Result	Units	MRL	MDL	Qualifier
01NE00TB118	Water	SW8260	Toluene	ND	mg/L	0.001	0.00042	
			trans-1,2-Dichloroethene	ND	mg/L	0.001	0.00054	
			trans-1,3-Dichloropropene	ND	mg/L	0.001	0.00026	
			trans-1,4-Dichloro-2-butene	ND	mg/L	0.005	0.0003	
			Trichloroethene	ND	mg/L	0.001	0.00042	
			Trichlorofluoromethane	ND	mg/L	0.001	0.00029	
			Vinyl acetate	ND	mg/L	0.005	0.0004	
			Vinyl chloride	ND	mg/L	0.001	0.0004	

Key:
MDL - method detection limit
mg/L - milligram per liter
mg/Kg - milligram per kilogram
MRL - method reporting limit
ND - not detected
VB - The analyte was detected in the assoicated blank and the sample indicating possible contamination.

Summary of Groundwater and Surface Water Results Site 88
2002 Sampling event

Sample ID	Site ID	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88GW001	NE19	AK101	Gasoline Range Organics (C6-C10)	0.024	mg/L	0.05	0.02	VJ
		AK102	Diesel Range Organics (C10-C25)	1.2	mg/L	0.1	0.042	
		AK103	Residual Range Organics	0.43	mg/L	0.2	0.073	
		E300.0	Sulfate	17	mg/L	2	0.2	
		E310.1	Alkalinity, Total	50	mg/L	2	1	
		RSK175	Ethane	0.0017	mg/L	0.0005	0.0005	
			Ethene	ND	mg/L	0.0015	0.0013	
			Methane	0.0039	mg/L	0.0005	0.0003	
		SW8260B	Benzene	0.00058	mg/L	0.0005	0.00011	
			Ethylbenzene	ND	mg/L	0.0005	0.00013	
			o-Xylene	0.00013	mg/L	0.0005	0.000079	VJ
			Toluene	0.00061	mg/L	0.0005	0.000098	VB
			Xylene, Isomers m & p	0.00022	mg/L	0.0005	0.00022	VJ
02NE88GW002	NE19	AK101	Gasoline Range Organics (C6-C10)	ND	mg/L	0.05	0.02	
		AK102	Diesel Range Organics (C10-C25)	0.71	mg/L	0.1	0.042	
		AK103	Residual Range Organics	1.3	mg/L	0.2	0.073	
		E300.0	Sulfate	13	mg/L	2	0.2	
		E310.1	Alkalinity, Total	40	mg/L	2	1	
		RSK175	Ethane	ND	mg/L	0.0005	0.0005	
			Ethene	ND	mg/L	0.0015	0.0013	
			Methane	0.01	mg/L	0.0005	0.0003	
		SW8260B	Benzene	0.00092	mg/L	0.0005	0.00011	
			Ethylbenzene	0.00034	mg/L	0.0005	0.00013	VJ
			o-Xylene	0.0001	mg/L	0.0005	0.000079	VJ
			Toluene	0.00036	mg/L	0.0005	0.000098	VB
			Xylene, Isomers m & p	0.00035	mg/L	0.0005	0.00022	VJ
02NE88GW003	NE19	AK101	Gasoline Range Organics (C6-C10)	0.42	mg/L	0.05	0.02	
		AK102	Diesel Range Organics (C10-C25)	34	mg/L	1.1	0.43	
		AK103	Residual Range Organics	0.22	mg/L	0.21	0.074	
		E300.0	Sulfate	12	mg/L	1	0.1	
		E310.1	Alkalinity, Total	47	mg/L	2	1	
		RSK175	Ethane	ND	mg/L	0.0005	0.0005	
			Ethene	ND	mg/L	0.0015	0.0013	
			Methane	0.0055	mg/L	0.0005	0.0003	
		SW8260B	Benzene	0.00057	mg/L	0.0005	0.00011	
			Ethylbenzene	0.025	mg/L	0.0005	0.00013	
			o-Xylene	0.00008	mg/L	0.0005	0.000079	VJ
			Toluene	0.00024	mg/L	0.0005	0.000098	VB
			Xylene, Isomers m & p	0.022	mg/L	0.0005	0.00022	
02NE88GW004	NE27	AK101	Gasoline Range Organics (C6-C10)	1.2	mg/L	0.05	0.02	
		AK102	Diesel Range Organics (C10-C25)	72	mg/L	1.1	0.43	
		AK103	Residual Range Organics	1.9	mg/L	0.21	0.074	
		E300.0	Sulfate	1.4	mg/L	0.2	0.02	
		E310.1	Alkalinity, Total	258	mg/L	2	1	
		RSK175	Ethane	ND	mg/L	0.0005	0.0005	
			Ethene	ND	mg/L	0.0015	0.0013	
			Methane	1.7	mg/L	0.0005	0.0003	
		SW8260B	Benzene	0.03	mg/L	0.0005	0.00011	
			Ethylbenzene	0.12	mg/L	0.005	0.0013	
			o-Xylene	0.007	mg/L	0.0005	0.000079	
			Toluene	0.0032	mg/L	0.0005	0.000098	
			Xylene, Isomers m & p	0.085	mg/L	0.0005	0.00022	
02NE88GW204 (FD of GW004)	NE27	AK101	Gasoline Range Organics (C6-C10)	1.2	mg/L	0.05	0.02	
		AK102	Diesel Range Organics (C10-C25)	56	mg/L	1	0.42	
		AK103	Residual Range Organics	1.3	mg/L	0.2	0.073	
		E300.0	Sulfate	0.9	mg/L	0.2	0.02	
		E310.1	Alkalinity, Total	273	mg/L	2	1	
		RSK175	Ethane	ND	mg/L	0.0005	0.0005	
			Ethene	ND	mg/L	0.0015	0.0013	
			Methane	1.8	mg/L	0.0005	0.0003	
		SW8260B	Benzene	0.03	mg/L	0.0005	0.00011	
			Ethylbenzene	0.12	mg/L	0.005	0.0013	
			o-Xylene	0.0075	mg/L	0.0005	0.000079	
			Toluene	0.0033	mg/L	0.0005	0.000098	
02NE88GW204 (FD of GW004)	NE27	SW8260B	Xylene, Isomers m & p	0.083	mg/L	0.0005	0.00022	

Summary of Groundwater and Surface Water Results Site 88
2002 Sampling event

Sample ID	Site ID	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88GW005	NE13	AK101	Gasoline Range Organics (C6-C10)	1.3	mg/L	0.05	0.02	
		AK102	Diesel Range Organics (C10-C25)	9.8	mg/L	0.11	0.043	
		AK103	Residual Range Organics	2.3	mg/L	0.21	0.074	
		E300.0	Sulfate	7.8	mg/L	0.2	0.02	
		E310.1	Alkalinity, Total	145	mg/L	2	1	
		RSK175	Ethane	ND	mg/L	0.0005	0.0005	
			Ethene	ND	mg/L	0.0015	0.0013	
			Methane	0.62	mg/L	0.0005	0.0003	
		SW8260B	Benzene	0.019	mg/L	0.0005	0.00011	
			Ethylbenzene	0.035	mg/L	0.0005	0.00013	
			o-Xylene	0.071	mg/L	0.0005	0.000079	
			Toluene	0.12	mg/L	0.005	0.00098	
			Xylene, Isomers m & p	0.14	mg/L	0.0005	0.00022	
02NE88GW006	NE13	AK101	Gasoline Range Organics (C6-C10)	1.1	mg/L	0.05	0.02	
		AK102	Diesel Range Organics (C10-C25)	69	mg/L	1.1	0.43	
		AK103	Residual Range Organics	2.1	mg/L	0.21	0.074	
		E300.0	Sulfate	11.7	mg/L	0.4	0.04	
		E310.1	Alkalinity, Total	153	mg/L	2	1	
		RSK175	Ethane	ND	mg/L	0.0005	0.0005	
			Ethene	ND	mg/L	0.0015	0.0013	
			Methane	2.9	mg/L	0.0005	0.0003	
		SW8260B	Benzene	0.00074	mg/L	0.0005	0.00011	
			Ethylbenzene	0.052	mg/L	0.0005	0.00013	
			o-Xylene	0.0038	mg/L	0.0005	0.000079	
			Toluene	0.00019	mg/L	0.0005	0.000098	VB
			Xylene, Isomers m & p	0.055	mg/L	0.0005	0.00022	
02NE88GW007	NE13	AK101	Gasoline Range Organics (C6-C10)	1.5	mg/L	0.05	0.02	
		AK102	Diesel Range Organics (C10-C25)	6.1	mg/L	0.11	0.043	VLB
		AK103	Residual Range Organics	0.32	mg/L	0.21	0.074	
		E300.0	Sulfate	0.8	mg/L	0.2	0.02	
		E310.1	Alkalinity, Total	179	mg/L	2	1	
		RSK175	Ethane	ND	mg/L	0.0005	0.0005	
			Ethene	ND	mg/L	0.0015	0.0013	
			Methane	1.2	mg/L	0.0005	0.0003	VLB
		SW8260B	Benzene	0.014	mg/L	0.0005	0.00011	
			Ethylbenzene	0.072	mg/L	0.0005	0.00013	
			o-Xylene	0.024	mg/L	0.0005	0.000079	
			Toluene	0.0012	mg/L	0.0005	0.000098	VB
			Xylene, Isomers m & p	0.13	mg/L	0.0005	0.00022	
02NE88GW008	NE13	AK101	Gasoline Range Organics (C6-C10)	0.52	mg/L	0.05	0.02	
		AK102	Diesel Range Organics (C10-C25)	20	mg/L	0.1	0.042	
		AK103	Residual Range Organics	0.18	mg/L	0.2	0.073	VJ
		E300.0	Sulfate	2.6	mg/L	0.2	0.02	
		E310.1	Alkalinity, Total	162	mg/L	2	1	
		RSK175	Ethane	ND	mg/L	0.0005	0.0005	
			Ethene	ND	mg/L	0.0015	0.0013	
			Methane	0.88	mg/L	0.0005	0.0003	
		SW8260B	Benzene	0.00012	mg/L	0.0005	0.00011	VJ
			Ethylbenzene	0.018	mg/L	0.0005	0.00013	
			o-Xylene	0.00064	mg/L	0.0005	0.000079	
			Toluene	0.00011	mg/L	0.0005	0.000098	VB
			Xylene, Isomers m & p	0.016	mg/L	0.0005	0.00022	
02NE88GW009	NE19	AK101	Gasoline Range Organics (C6-C10)	0.064	mg/L	0.05	0.02	
		AK102	Diesel Range Organics (C10-C25)	0.71	mg/L	0.1	0.042	
		AK103	Residual Range Organics	ND	mg/L	0.2	0.073	
		E300.0	Sulfate	5	mg/L	1	0.1	
		E310.1	Alkalinity, Total	26	mg/L	2	1	
		RSK175	Ethane	ND	mg/L	0.0005	0.0005	
			Ethene	ND	mg/L	0.0015	0.0013	
			Methane	0.13	mg/L	0.0005	0.0003	
		SW8260B	Benzene	ND	mg/L	0.0005	0.00011	
			Ethylbenzene	ND	mg/L	0.0005	0.00013	
			o-Xylene	ND	mg/L	0.0005	0.000079	
02NE88GW009	NE19	SW8260B	Toluene	ND	mg/L	0.0005	0.000098	
			Xylene, Isomers m & p	ND	mg/L	0.0005	0.00022	

Summary of Groundwater and Surface Water Results Site 88
2002 Sampling event

Sample ID	Site ID	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88GW010	NE20	AK101	Gasoline Range Organics (C6-C10)	0.12	mg/L	0.05	0.02	
		AK102	Diesel Range Organics (C10-C25)	55	mg/L	1.1	0.43	
		AK103	Residual Range Organics	1.3	mg/L	0.21	0.075	
		E300.0	Sulfate	13	mg/L	1	0.1	
		E310.1	Alkalinity, Total	197	mg/L	2	1	
		RSK175	Ethane	0.00064	mg/L	0.0005	0.0005	
			Ethene	0.0024	mg/L	0.0015	0.0013	
			Methane	0.031	mg/L	0.0005	0.0003	
		SW8260B	Benzene	0.0027	mg/L	0.0005	0.00011	
			Ethylbenzene	0.0017	mg/L	0.0005	0.00013	
			o-Xylene	0.00015	mg/L	0.0005	0.000079	VJ
			Toluene	0.0014	mg/L	0.0005	0.000098	
			Xylene, Isomers m & p	0.00079	mg/L	0.0005	0.00022	
02NE88EB001	Equipment Blank	AK101	Gasoline Range Organics (C6-C10)	ND	mg/L	0.05	0.02	
		AK102	Diesel Range Organics (C10-C25)	ND	mg/L	0.1	0.042	
		AK103	Residual Range Organics	0.081	mg/L	0.2	0.073	VJ
		SW8260B	Benzene	0.00021	mg/L	0.0005	0.00011	VJ
			Ethylbenzene	ND	mg/L	0.0005	0.00013	
			o-Xylene	0.00009	mg/L	0.0005	0.000079	VJ
			Toluene	0.00045	mg/L	0.0005	0.000098	VB
			Xylene, Isomers m & p	0.00022	mg/L	0.0005	0.00022	VJ
02NE88EB002	Equipment Blank	AK101	Gasoline Range Organics (C6-C10)	ND	mg/L	0.05	0.02	
		AK102	Diesel Range Organics (C10-C25)	ND	mg/L	0.11	0.043	
		AK103	Residual Range Organics	ND	mg/L	0.21	0.075	
		SW8260B	Benzene	ND	mg/L	0.0005	0.00011	
			Ethylbenzene	ND	mg/L	0.0005	0.00013	
			o-Xylene	ND	mg/L	0.0005	0.000079	
			Toluene	0.00013	mg/L	0.0005	0.000098	VB
			Xylene, Isomers m & p	ND	mg/L	0.0005	0.00022	
02NE88EB003	Equipment Blank	AK101	Gasoline Range Organics (C6-C10)	ND	mg/L	0.05	0.02	
		AK102	Diesel Range Organics (C10-C25)	ND	mg/L	0.1	0.042	
		AK103	Residual Range Organics	ND	mg/L	0.2	0.073	
		SW8260B	Benzene	ND	mg/L	0.0005	0.00011	
			Ethylbenzene	ND	mg/L	0.0005	0.00013	
			o-Xylene	0.00008	mg/L	0.0005	0.000079	VJ
			Toluene	0.00013	mg/L	0.0005	0.000098	VB
			Xylene, Isomers m & p	ND	mg/L	0.0005	0.00022	
02NE88EB004	Equipment Blank	AK101	Gasoline Range Organics (C6-C10)	ND	mg/L	0.05	0.02	
		AK102	Diesel Range Organics (C10-C25)	ND	mg/L	0.1	0.042	
		AK103	Residual Range Organics	ND	mg/L	0.2	0.073	
		SW8260B	Benzene	ND	mg/L	0.0005	0.00011	
			Ethylbenzene	ND	mg/L	0.0005	0.00013	
			o-Xylene	ND	mg/L	0.0005	0.000079	
			Toluene	0.00013	mg/L	0.0005	0.000098	VB
			Xylene, Isomers m & p	ND	mg/L	0.0005	0.00022	
02NE88EB005	Equipment Blank	AK101	Gasoline Range Organics (C6-C10)	ND	mg/L	0.05	0.02	
		AK102	Diesel Range Organics (C10-C25)	ND	mg/L	0.11	0.043	
		AK103	Residual Range Organics	ND	mg/L	0.21	0.074	
		SW8260B	Benzene	ND	mg/L	0.0005	0.00011	
			Ethylbenzene	ND	mg/L	0.0005	0.00013	
			o-Xylene	ND	mg/L	0.0005	0.000079	
			Toluene	0.00015	mg/L	0.0005	0.000098	VB
			Xylene, Isomers m & p	ND	mg/L	0.0005	0.00022	
02NE88TB002	Trip Blank	AK101	Gasoline Range Organics (C6-C10)	ND	mg/L	0.05	0.02	
		RSK175	Ethane	ND	mg/L	0.0005	0.0005	
			Ethene	ND	mg/L	0.0015	0.0013	
			Methane	ND	mg/L	0.0005	0.0003	
		SW8260B	Benzene	ND	mg/L	0.0005	0.00011	
			Ethylbenzene	ND	mg/L	0.0005	0.00013	
			o-Xylene	ND	mg/L	0.0005	0.000079	
			Toluene	0.00015	mg/L	0.0005	0.000098	VJ
			Xylene, Isomers m & p	ND	mg/L	0.0005	0.00022	
02NE88TB003		AK101	Gasoline Range Organics (C6-C10)	ND	mg/L	0.05	0.02	

Summary of Groundwater and Surface Water Results Site 88
2002 Sampling event

Sample ID	Site ID	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88TB003	Trip Blank	SW8260B	Benzene	ND	mg/L	0.0005	0.00011	
			Ethylbenzene	ND	mg/L	0.0005	0.00013	
			o-Xylene	ND	mg/L	0.0005	0.000079	
			Toluene	0.00013	mg/L	0.0005	0.000098	VB
			Xylene, Isomers m & p	ND	mg/L	0.0005	0.00022	
02NE88TB006	Trip Blank	AK101	Gasoline Range Organics (C6-C10)	ND	mg/L	0.05	0.02	
		SW8260B	Benzene	ND	mg/L	0.0005	0.00011	
			Ethylbenzene	ND	mg/L	0.0005	0.00013	
			o-Xylene	ND	mg/L	0.0005	0.000079	
			Toluene	0.00011	mg/L	0.0005	0.000098	VJ
			Xylene, Isomers m & p	ND	mg/L	0.0005	0.00022	

Key:
DRO - diesel range organics
GRO - gaoline range organics
mg/L - milligrams per liter
ND - Not detected above method reporting limit
VB - analyte present in the blank and the sample
VJ - estimated value
VLB - Result negatively biased.

Summary of Soil Results Site 88
2002 Sampling Event

Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB001	NE19	AK101	Gasoline Range Organics (C6-C10)	19	mg/Kg	2.7	2.2	
Depth 15.5-17.5 ft. bgs		AK102	Diesel Range Organics (C10-C25)	5000	mg/Kg	110	48	
		AK103	Residual Range Organics	39	mg/Kg	110	4.5	VJ
		D4129	Total Organic Carbon (TOC)	0.15	percent	0.05	0.02	
		E160.3M	Total Solids	94.7	percent	0	0	
		SW6020	Chromium	6.5	mg/Kg	0.21	0.01	
			Lead	50.5	mg/Kg	0.05	0.03	
			Zinc	57.6	mg/Kg	0.53	0.06	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.043	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0074	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.017	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0065	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0045	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0087	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0049	
		SW8260B	Benzene	ND	mg/Kg	0.012	0.012	
			Ethylbenzene	ND	mg/Kg	0.027	0.011	
			o-Xylene	ND	mg/Kg	0.027	0.0083	
			Toluene	ND	mg/Kg	0.027	0.011	
			Xylene, Isomers m & p	ND	mg/Kg	0.027	0.02	
		SW8270 SIM	Acenaphthene	ND	mg/Kg	0.0053	0.00023	
			Acenaphthylene	ND	mg/Kg	0.0053	0.00017	
			Anthracene	ND	mg/Kg	0.0053	0.00021	
			Benzo(a)anthracene	0.00051	mg/Kg	0.0053	0.00014	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.0053	0.00015	
			Benzo(b)fluoranthene	0.0007	mg/Kg	0.0053	0.00015	VJ
			Benzo(g,h,i)perylene	0.00026	mg/Kg	0.0053	0.00011	VJ
			Benzo(k)fluoranthene	ND	mg/Kg	0.0053	0.00016	
			Chrysene	0.001	mg/Kg	0.0053	0.00016	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0053	0.0002	
			Fluoranthene	ND	mg/Kg	0.0053	0.00018	
			Fluorene	ND	mg/Kg	0.0053	0.00018	
			Indeno(1,2,3-cd)pyrene	0.00024	mg/Kg	0.0053	0.00016	VJ
			Naphthalene	0.0022	mg/Kg	0.0053	0.00023	VJ
			Phenanthrene	ND	mg/Kg	0.0053	0.00016	
			Pyrene	0.0043	mg/Kg	0.0053	0.00012	VJ
02NE88SB002	NE19	AK101	Gasoline Range Organics (C6-C10)	4.9	mg/Kg	2.7	2.1	
Depth 17.5-20.0 ft bgs		AK102	Diesel Range Organics (C10-C25)	1400	mg/Kg	11	4.7	
		AK103	Residual Range Organics	16	mg/Kg	110	4.4	VJ
		D4129	Total Organic Carbon (TOC)	0.13	percent	0.05	0.02	
		E160.3M	Total Solids	96.1	percent	0	0	
		SW6020	Chromium	4.38	mg/Kg	0.21	0.01	
			Lead	37.7	mg/Kg	0.05	0.03	
			Zinc	54.5	mg/Kg	0.52	0.06	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.042	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.21	0.0073	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.017	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0064	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0044	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0086	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0048	
		SW8260B	Benzene	ND	mg/Kg	0.011	0.011	
			Ethylbenzene	ND	mg/Kg	0.025	0.011	
			o-Xylene	ND	mg/Kg	0.025	0.0082	
			Toluene	ND	mg/Kg	0.025	0.011	
			Xylene, Isomers m & p	ND	mg/Kg	0.025	0.02	
		SW8270 SIM	Acenaphthene	ND	mg/Kg	0.0052	0.00022	
			Acenaphthylene	ND	mg/Kg	0.0052	0.00017	
			Anthracene	ND	mg/Kg	0.0052	0.0002	
			Benzo(a)anthracene	ND	mg/Kg	0.0052	0.00014	
			Benzo(a)pyrene	ND	mg/Kg	0.0052	0.00015	
			Benzo(b)fluoranthene	0.00031	mg/Kg	0.0052	0.00015	VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0052	0.00011	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0052	0.00016	
			Chrysene	0.00066	mg/Kg	0.0052	0.00016	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0052	0.00019	
			Fluoranthene	ND	mg/Kg	0.0052	0.00018	

Summary of Soil Results Site 88
2002 Sampling Event

Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB002 Depth 17.5-20.0 ft bgs	NE19	SW8270 SIM	Fluorene	ND	mg/Kg	0.0052	0.00018	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0052	0.00016	
			Naphthalene	0.00038	mg/Kg	0.0052	0.00022	VJ
			Phenanthrene	ND	mg/Kg	0.0052	0.00016	
			Pyrene	0.0022	mg/Kg	0.0052	0.00012	VJ
02NE88SB003 Depth 8-10 ft bgs	NE19	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	3	2.3	
		AK102	Diesel Range Organics (C10-C25)	ND	mg/Kg	12	5.2	
		AK103	Residual Range Organics	6	mg/Kg	120	4.9	VJ
		D4129	Total Organic Carbon (TOC)	0.19	percent	0.05	0.02	
		E160.3M	Total Solids	87.5	percent	0	0	
		SW6020	Chromium	16.1	mg/Kg	0.23	0.01	
			Lead	24.4	mg/Kg	0.06	0.03	
			Zinc	55.2	mg/Kg	0.57	0.07	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.12	0.046	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.23	0.008	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.12	0.019	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.12	0.007	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.12	0.0048	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.12	0.0094	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.12	0.0053	
		SW8260B	Benzene	ND	mg/Kg	0.014	0.012	
			Ethylbenzene	ND	mg/Kg	0.035	0.012	
			o-Xylene	ND	mg/Kg	0.035	0.009	
			Toluene	ND	mg/Kg	0.035	0.012	
			Xylene, Isomers m & p	ND	mg/Kg	0.035	0.022	
		SW8270 SIM	Acenaphthene	ND	mg/Kg	0.0058	0.00024	
			Acenaphthylene	ND	mg/Kg	0.0058	0.00019	
			Anthracene	ND	mg/Kg	0.0058	0.00022	
			Benzo(a)anthracene	ND	mg/Kg	0.0058	0.00015	
			Benzo(a)pyrene	ND	mg/Kg	0.0058	0.00016	
			Benzo(b)fluoranthene	0.00045	mg/Kg	0.0058	0.00016	VJ
			Benzo(g,h,i)perylene	0.00065	mg/Kg	0.0058	0.00012	VJ
			Benzo(k)fluoranthene	ND	mg/Kg	0.0058	0.00018	
			Chrysene	ND	mg/Kg	0.0058	0.00018	
			Dibenzo(a,h)anthracene	0.00048	mg/Kg	0.0058	0.00021	VJ
			Fluoranthene	ND	mg/Kg	0.0058	0.0002	
			Fluorene	ND	mg/Kg	0.0058	0.0002	
			Indeno(1,2,3-cd)pyrene	0.00048	mg/Kg	0.0058	0.00018	VJ
			Naphthalene	0.001	mg/Kg	0.0058	0.00024	VJ
			Phenanthrene	0.00026	mg/Kg	0.0058	0.00018	VJ
			Pyrene	ND	mg/Kg	0.0058	0.00013	
02NE88SB004 Depth 10-12 ft bgs	NE19	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	3.6	2.2	
		AK102	Diesel Range Organics (C10-C25)	ND	mg/Kg	11	4.8	
		AK103	Residual Range Organics	7.1	mg/Kg	110	4.5	VJ
		D4129	Total Organic Carbon (TOC)	0.18	percent	0.05	0.02	
		E160.3M	Total Solids	94.4	percent	0	0	
		SW6020	Chromium	8	mg/Kg	0.21	0.01	
			Lead	14.9	mg/Kg	0.05	0.03	
			Zinc	36.1	mg/Kg	0.53	0.06	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.043	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0075	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.017	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0065	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0045	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0087	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0049	
		SW8260B	Benzene	ND	mg/Kg	0.015	0.012	
			Ethylbenzene	ND	mg/Kg	0.037	0.011	
			o-Xylene	ND	mg/Kg	0.037	0.0084	
			Toluene	ND	mg/Kg	0.037	0.011	
			Xylene, Isomers m & p	ND	mg/Kg	0.037	0.02	
		SW8270 SIM	Acenaphthene	ND	mg/Kg	0.0053	0.00023	
			Acenaphthylene	ND	mg/Kg	0.0053	0.00017	
			Anthracene	ND	mg/Kg	0.0053	0.00021	
			Benzo(a)anthracene	ND	mg/Kg	0.0053	0.00014	
			Benzo(a)pyrene	ND	mg/Kg	0.0053	0.00015	
			Benzo(b)fluoranthene	0.0003	mg/Kg	0.0053	0.00015	VJ

Summary of Soil Results Site 88
2002 Sampling Event

Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB004	NE19	SW8270 SIM	Benzo(g,h,i)perylene	ND	mg/Kg	0.0053	0.00011	
Depth 10-12 ft bgs			Benzo(k)fluoranthene	ND	mg/Kg	0.0053	0.00016	
			Chrysene	ND	mg/Kg	0.0053	0.00016	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0053	0.0002	
			Fluoranthene	ND	mg/Kg	0.0053	0.00019	
			Fluorene	ND	mg/Kg	0.0053	0.00019	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0053	0.00016	
			Naphthalene	0.00056	mg/Kg	0.0053	0.00023	VJ
			Phenanthrene	ND	mg/Kg	0.0053	0.00016	
			Pyrene	ND	mg/Kg	0.0053	0.00012	
02NE88SB005	NE19	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	6	2.4	
Depth 4-6 ft bgs		AK102	Diesel Range Organics (C10-C25)	7.6	mg/Kg	12	5.4	VJ
		AK103	Residual Range Organics	120	mg/Kg	120	5.1	VJ
		D4129	Total Organic Carbon (TOC)	0.82	percent	0.05	0.02	
		E160.3M	Total Solids	84.1	percent	0	0	
		SW6020	Chromium	22.3	mg/Kg	0.24	0.01	
			Lead	15.1	mg/Kg	0.06	0.04	
			Zinc	45.9	mg/Kg	0.6	0.07	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.12	0.048	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.24	0.0084	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.12	0.02	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.12	0.0073	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.12	0.005	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.12	0.0098	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.12	0.0055	
		SW8260B	Benzene	ND	mg/Kg	0.023	0.013	
			Ethylbenzene	ND	mg/Kg	0.058	0.012	
			o-Xylene	ND	mg/Kg	0.058	0.0094	
			Toluene	ND	mg/Kg	0.058	0.012	
			Xylene, Isomers m & p	ND	mg/Kg	0.058	0.023	
		SW8270 SIM	Acenaphthene	ND	mg/Kg	0.006	0.00025	
			Acenaphthylene	ND	mg/Kg	0.006	0.0002	
			Anthracene	ND	mg/Kg	0.006	0.00023	
			Benzo(a)anthracene	ND	mg/Kg	0.006	0.00016	
			Benzo(a)pyrene	ND	mg/Kg	0.006	0.00017	
			Benzo(b)fluoranthene	0.00032	mg/Kg	0.006	0.00017	VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.006	0.00012	
			Benzo(k)fluoranthene	ND	mg/Kg	0.006	0.00018	
			Chrysene	0.00032	mg/Kg	0.006	0.00018	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.006	0.00022	
			Fluoranthene	ND	mg/Kg	0.006	0.00021	
			Fluorene	ND	mg/Kg	0.006	0.00021	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.006	0.00018	
			Naphthalene	0.00081	mg/Kg	0.006	0.00025	VJ
			Phenanthrene	0.00051	mg/Kg	0.006	0.00018	VJ
			Pyrene	0.00017	mg/Kg	0.006	0.00014	VJ
02NE88SB006	NE19	AK101	Gasoline Range Organics (C6-C10)	51	mg/Kg	5.4	2.2	
Depth 16-18 ft bgs		AK102	Diesel Range Organics (C10-C25)	3700	mg/Kg	11	5	
		AK103	Residual Range Organics	24	mg/Kg	110	4.6	VJ
		D4129	Total Organic Carbon (TOC)	0.16	percent	0.05	0.02	
		E160.3M	Total Solids	91.7	percent	0	0	
		SW6020	Chromium	13.1	mg/Kg	0.22	0.01	
			Lead	26.2	mg/Kg	0.05	0.03	VJ
			Zinc	52.8	mg/Kg	0.55	0.07	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.044	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0077	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0067	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0046	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.009	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0051	
		SW8260B	Benzene	ND	mg/Kg	0.021	0.012	
			Ethylbenzene	0.34	mg/Kg	0.051	0.011	VJ
			o-Xylene	ND	mg/Kg	0.051	0.0086	
			Toluene	ND	mg/Kg	0.051	0.011	
			Xylene, Isomers m & p	0.31	mg/Kg	0.051	0.021	VJ
		SW8270 SIM	Acenaphthene	0.15	mg/Kg	0.0055	0.00023	

Summary of Soil Results Site 88
2002 Sampling Event

Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB006 Depth 16-18 ft bgs	NE19	SW8270 SIM	Acenaphthylene	ND	mg/Kg	0.0055	0.00018	
			Anthracene	0.034	mg/Kg	0.0055	0.00021	
			Benzo(a)anthracene	0.0011	mg/Kg	0.0055	0.00015	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.0055	0.00016	
			Benzo(b)fluoranthene	0.00074	mg/Kg	0.0055	0.00016	VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0055	0.00011	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0055	0.00017	
			Chrysene	0.0027	mg/Kg	0.0055	0.00017	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0055	0.0002	
			Fluoranthene	0.0041	mg/Kg	0.0055	0.00019	VJ
			Fluorene	0.36	mg/Kg	0.0055	0.00019	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0055	0.00017	
			Naphthalene	1.5	mg/Kg	0.055	0.0023	
			Phenanthrene	0.46	mg/Kg	0.0055	0.00017	
			Pyrene	0.011	mg/Kg	0.0055	0.00012	
02NE88SB206 (FD of SB006)	NE19	AK101	Gasoline Range Organics (C6-C10)	41	mg/Kg	6.1	2.5	
		AK102	Diesel Range Organics (C10-C25)	2900	mg/Kg	11	5	
		AK103	Residual Range Organics	23	mg/Kg	110	4.7	VJ
		D4129	Total Organic Carbon (TOC)	0.15	percent	0.05	0.02	
		E160.3M	Total Solids	90.6	percent	0	0	
		SW6020	Chromium	10.8	mg/Kg	0.22	0.01	
			Lead	61.1	mg/Kg	0.06	0.03	
			Zinc	55.9	mg/Kg	0.55	0.07	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.045	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0078	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0068	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0047	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0091	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0051	
		SW8260B	Benzene	ND	mg/Kg	0.021	0.012	
			Ethylbenzene	0.092	mg/Kg	0.053	0.011	
			o-Xylene	ND	mg/Kg	0.053	0.0087	
			Toluene	ND	mg/Kg	0.053	0.011	
			Xylene, Isomers m & p	0.094	mg/Kg	0.053	0.021	
		SW8270 SIM	Acenaphthene	0.13	mg/Kg	0.0056	0.00024	
			Acenaphthylene	ND	mg/Kg	0.0056	0.00018	
			Anthracene	0.029	mg/Kg	0.0056	0.00021	
			Benzo(a)anthracene	0.0011	mg/Kg	0.0056	0.00015	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.0056	0.00016	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0056	0.00016	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0056	0.00012	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0056	0.00017	
			Chrysene	0.0027	mg/Kg	0.0056	0.00017	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0056	0.0002	
			Fluoranthene	0.004	mg/Kg	0.0056	0.00019	VJ
			Fluorene	0.33	mg/Kg	0.0056	0.00019	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0056	0.00017	
			Naphthalene	1	mg/Kg	0.056	0.0024	
			Phenanthrene	0.43	mg/Kg	0.0056	0.00017	
			Pyrene	0.01	mg/Kg	0.0056	0.00013	
02NE88SB007 Depth 9-11 ft bgs	NE27	AK101	Gasoline Range Organics (C6-C10)	44	mg/Kg	6.7	2.8	
		AK102	Diesel Range Organics (C10-C25)	12000	mg/Kg	140	62	
		AK103	Residual Range Organics	3700	mg/Kg	1400	58	
		D4129	Total Organic Carbon (TOC)	15.3	percent	0.05	0.02	
		E160.3M	Total Solids	73.7	percent	0	0	
		SW6020	Chromium	17.3	mg/Kg	0.23	0.01	
			Lead	11	mg/Kg	0.06	0.03	
			Zinc	17.3	mg/Kg	0.57	0.07	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.14	0.055	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.27	0.0095	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.14	0.022	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.14	0.0083	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.14	0.0057	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.14	0.012	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.14	0.0063	

Summary of Soil Results Site 88
2002 Sampling Event

Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB007	NE27	SW8260B	Benzene	0.047	mg/Kg	0.027	0.015	
Depth 9-11 ft bgs			Ethylbenzene	0.54	mg/Kg	0.066	0.014	
			o-Xylene	0.89	mg/Kg	0.066	0.011	
			Toluene	0.083	mg/Kg	0.066	0.014	
			Xylene, Isomers m & p	1.6	mg/Kg	0.066	0.026	
		SW8270 SIM	Acenaphthene	0.29	mg/Kg	0.034	0.0015	VHB
			Acenaphthylene	ND	mg/Kg	0.034	0.0011	
			Anthracene	0.026	mg/Kg	0.034	0.0013	VJ
			Benzo(a)anthracene	ND	mg/Kg	0.034	0.00089	
			Benzo(a)pyrene	ND	mg/Kg	0.034	0.00095	
			Benzo(b)fluoranthene	0.0044	mg/Kg	0.034	0.00095	VJ
			Benzo(g,h,i)perylene	0.00094	mg/Kg	0.034	0.00068	VJ
			Benzo(k)fluoranthene	ND	mg/Kg	0.034	0.0011	
			Chrysene	0.0033	mg/Kg	0.034	0.0011	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.034	0.0013	
			Fluoranthene	0.0042	mg/Kg	0.034	0.0012	VJ
			Fluorene	0.8	mg/Kg	0.034	0.0012	VHB
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.034	0.0011	
			Naphthalene	5.9	mg/Kg	0.034	0.0015	VHB
			Phenanthrene	0.59	mg/Kg	0.034	0.0011	VHB
			Pyrene	0.01	mg/Kg	0.034	0.00075	VJ
02NE88SB008	NE27	AK101	Gasoline Range Organics (C6-C10)	54	mg/Kg	3.5	2.2	VHB
Depth 11-13 ft bgs		AK102	Diesel Range Organics (C10-C25)	2600	mg/Kg	11	5	
		AK103	Residual Range Organics	16	mg/Kg	110	4.7	VJ
		D4129	Total Organic Carbon (TOC)	0.18	percent	0.05	0.02	
		E160.3M	Total Solids	91.6	percent	0	0	
		SW6020	Chromium	3.73	mg/Kg	0.22	0.01	
			Lead	87	mg/Kg	0.05	0.03	
			Zinc	56.2	mg/Kg	0.55	0.07	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.044	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0077	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0067	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0046	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.009	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0051	
		SW8260B	Benzene	ND	mg/Kg	0.018	0.012	
			Ethylbenzene	0.57	mg/Kg	0.044	0.011	
			o-Xylene	0.01	mg/Kg	0.044	0.0086	VJ
			Toluene	ND	mg/Kg	0.044	0.011	
			Xylene, Isomers m & p	0.29	mg/Kg	0.044	0.021	
		SW8270 SIM	Acenaphthene	0.11	mg/Kg	0.0055	0.00023	
			Acenaphthylene	ND	mg/Kg	0.0055	0.00018	
			Anthracene	0.015	mg/Kg	0.0055	0.00021	
			Benzo(a)anthracene	0.00065	mg/Kg	0.0055	0.00015	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.0055	0.00016	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0055	0.00016	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0055	0.00011	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0055	0.00017	
			Chrysene	0.0014	mg/Kg	0.0055	0.00017	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0055	0.0002	
			Fluoranthene	0.0017	mg/Kg	0.0055	0.00019	VJ
			Fluorene	0.26	mg/Kg	0.0055	0.00019	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0055	0.00017	
			Naphthalene	2.3	mg/Kg	0.11	0.0046	
			Phenanthrene	0.28	mg/Kg	0.0055	0.00017	
			Pyrene	0.0047	mg/Kg	0.0055	0.00013	VJ
02NE88SB009	NE13	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	2.8	2.2	
Depth 1-3 ft bgs		AK102	Diesel Range Organics (C10-C25)	380	mg/Kg	54	25	
		AK103	Residual Range Organics	3400	mg/Kg	540	23	
		D4129	Total Organic Carbon (TOC)	0.95	percent	0.05	0.02	
		E160.3M	Total Solids	92.9	percent	0	0	
		SW6020	Chromium	42.3	mg/Kg	0.22	0.01	
			Lead	42.4	mg/Kg	0.05	0.03	
			Zinc	92.6	mg/Kg	0.54	0.06	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.044	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0076	

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Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB009	NE13	SW8082	PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
Depth 1-3 ft bgs			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0066	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0046	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0089	
			PCB-1260 (Aroclor 1260)	0.59	mg/Kg	0.11	0.005	
		SW8260B	Benzene	ND	mg/Kg	0.012	0.012	
			Ethylbenzene	ND	mg/Kg	0.025	0.011	
			o-Xylene	ND	mg/Kg	0.025	0.0085	
			Toluene	ND	mg/Kg	0.025	0.011	
			Xylene, Isomers m & p	ND	mg/Kg	0.025	0.021	
		SW8270 SIM	Acenaphthene	0.0043	mg/Kg	0.0054	0.00023	VJ
			Acenaphthylene	0.00055	mg/Kg	0.0054	0.00018	VJ
			Anthracene	0.0054	mg/Kg	0.0054	0.00021	
			Benzo(a)anthracene	0.03	mg/Kg	0.0054	0.00014	
			Benzo(a)pyrene	0.028	mg/Kg	0.0054	0.00016	
			Benzo(b)fluoranthene	0.039	mg/Kg	0.0054	0.00016	
			Benzo(g,h,i)perylene	0.018	mg/Kg	0.0054	0.00011	
			Benzo(k)fluoranthene	0.023	mg/Kg	0.0054	0.00017	
			Chrysene	0.087	mg/Kg	0.0054	0.00017	
			Dibenzo(a,h)anthracene	0.0043	mg/Kg	0.0054	0.0002	VJ
			Fluoranthene	0.073	mg/Kg	0.0054	0.00019	
			Fluorene	0.0045	mg/Kg	0.0054	0.00019	VJ
			Indeno(1,2,3-cd)pyrene	0.016	mg/Kg	0.0054	0.00017	
			Naphthalene	0.0041	mg/Kg	0.0054	0.00023	VJ
			Phenanthrene	0.056	mg/Kg	0.0054	0.00017	
			Pyrene	0.08	mg/Kg	0.0054	0.00012	
02NE88SB010	NE13	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	4	2.3	
Depth 11-13 ft bgs		AK102	Diesel Range Organics (C10-C25)	21	mg/Kg	11	5.1	
		AK103	Residual Range Organics	25	mg/Kg	110	4.7	VJ
		D4129	Total Organic Carbon (TOC)	0.61	percent	0.05	0.02	
		E160.3M	Total Solids	90	percent	0	0	
		SW6020	Chromium	4.5	mg/Kg	0.22	0.01	
			Lead	13.1	mg/Kg	0.06	0.03	
			Zinc	20.1	mg/Kg	0.56	0.07	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.045	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0078	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0068	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0047	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0092	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0052	
		SW8260B	Benzene	ND	mg/Kg	0.014	0.012	
			Ethylbenzene	ND	mg/Kg	0.034	0.011	
			o-Xylene	ND	mg/Kg	0.034	0.0088	
			Toluene	ND	mg/Kg	0.034	0.011	
			Xylene, Isomers m & p	ND	mg/Kg	0.034	0.021	
		SW8270 SIM	Acenaphthene	0.0006	mg/Kg	0.0056	0.00024	VJ
			Acenaphthylene	ND	mg/Kg	0.0056	0.00018	
			Anthracene	ND	mg/Kg	0.0056	0.00022	
			Benzo(a)anthracene	ND	mg/Kg	0.0056	0.00015	
			Benzo(a)pyrene	ND	mg/Kg	0.0056	0.00016	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0056	0.00016	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0056	0.00012	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0056	0.00017	
			Chrysene	ND	mg/Kg	0.0056	0.00017	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0056	0.0002	
			Fluoranthene	ND	mg/Kg	0.0056	0.00019	
			Fluorene	0.0021	mg/Kg	0.0056	0.00019	VJ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0056	0.00017	
			Naphthalene	0.0037	mg/Kg	0.0056	0.00024	VJ
			Phenanthrene	0.00081	mg/Kg	0.0056	0.00017	VJ
			Pyrene	ND	mg/Kg	0.0056	0.00013	
02NE88SB011	NE13	AK101	Gasoline Range Organics (C6-C10)	130	mg/Kg	3.3	2.2	VHB
Depth 7-9 ft bgs		AK102	Diesel Range Organics (C10-C25)	3100	mg/Kg	11	5	
		AK103	Residual Range Organics	23	mg/Kg	110	4.7	VJ
		D4129	Total Organic Carbon (TOC)	0.16	percent	0.05	0.02	
		E160.3M	Total Solids	91.1	percent	0	0	

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Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB011	NE13	SW6020	Chromium	12.8	mg/Kg	0.22	0.01	
Depth 7-9 ft bgs			Lead	13.9	mg/Kg	0.05	0.03	
			Zinc	34.1	mg/Kg	0.55	0.07	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.044	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0077	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0067	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0047	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0091	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0051	
		SW8260B	Benzene	ND	mg/Kg	0.012	0.012	
			Ethylbenzene	0.36	mg/Kg	0.026	0.011	
			o-Xylene	0.044	mg/Kg	0.026	0.0087	
			Toluene	ND	mg/Kg	0.026	0.011	
			Xylene, Isomers m & p	0.44	mg/Kg	0.026	0.021	
		SW8270 SIM	Acenaphthene	0.1	mg/Kg	0.0055	0.00024	
			Acenaphthylene	ND	mg/Kg	0.0055	0.00018	
			Anthracene	0.0035	mg/Kg	0.0055	0.00021	VJ
			Benzo(a)anthracene	0.00023	mg/Kg	0.0055	0.00015	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.0055	0.00016	
			Benzo(b)fluoranthene	0.0005	mg/Kg	0.0055	0.00016	VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0055	0.00011	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0055	0.00017	
			Chrysene	0.00064	mg/Kg	0.0055	0.00017	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0055	0.0002	
			Fluoranthene	0.0008	mg/Kg	0.0055	0.00019	VJ
			Fluorene	0.23	mg/Kg	0.0055	0.00019	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0055	0.00017	
			Naphthalene	4.1	mg/Kg	0.28	0.012	
			Phenanthrene	0.11	mg/Kg	0.0055	0.00017	
			Pyrene	0.0022	mg/Kg	0.0055	0.00013	VJ
02NE88SB012	NE13	AK101	Gasoline Range Organics (C6-C10)	83	mg/Kg	3	2.2	VHB
Depth 11-13 ft bgs		AK102	Diesel Range Organics (C10-C25)	1200	mg/Kg	11	4.9	
		AK103	Residual Range Organics	30	mg/Kg	110	4.6	VJ
		D4129	Total Organic Carbon (TOC)	0.11	percent	0.05	0.02	
		E160.3M	Total Solids	92.4	percent	0	0	
		SW6020	Chromium	8.3	mg/Kg	0.22	0.01	
			Lead	14	mg/Kg	0.05	0.03	
			Zinc	33.4	mg/Kg	0.54	0.06	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.044	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0076	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0067	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0046	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0089	
			PCB-1260 (Aroclor 1260)	0.0097	mg/Kg	0.11	0.005	VJ
		SW8260B	Benzene	ND	mg/Kg	0.012	0.012	
			Ethylbenzene	0.11	mg/Kg	0.028	0.011	
			o-Xylene	0.013	mg/Kg	0.028	0.0085	VJ
			Toluene	ND	mg/Kg	0.028	0.011	
			Xylene, Isomers m & p	0.15	mg/Kg	0.028	0.021	
		SW8270 SIM	Acenaphthene	0.052	mg/Kg	0.0055	0.00023	
			Acenaphthylene	ND	mg/Kg	0.0055	0.00018	
			Anthracene	0.0025	mg/Kg	0.0055	0.00021	VJ
			Benzo(a)anthracene	ND	mg/Kg	0.0055	0.00015	
			Benzo(a)pyrene	ND	mg/Kg	0.0055	0.00016	
			Benzo(b)fluoranthene	0.00089	mg/Kg	0.0055	0.00016	VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0055	0.00011	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0055	0.00017	
			Chrysene	ND	mg/Kg	0.0055	0.00017	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0055	0.0002	
			Fluoranthene	0.00044	mg/Kg	0.0055	0.00019	VJ
			Fluorene	0.17	mg/Kg	0.0055	0.00019	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0055	0.00017	
			Naphthalene	1.1	mg/Kg	0.055	0.0023	
			Phenanthrene	0.063	mg/Kg	0.0055	0.00017	
			Pyrene	0.0015	mg/Kg	0.0055	0.00012	VJ

Summary of Soil Results Site 88
2002 Sampling Event

Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB013	NE13	AK101	Gasoline Range Organics (C6-C10)	140	mg/Kg	2.9	2.2	VHB
Depth 7-9 ft bgs		AK102	Diesel Range Organics (C10-C25)	12000	mg/Kg	110	48	
		AK103	Residual Range Organics	55	mg/Kg	110	4.5	VJ
		D4129	Total Organic Carbon (TOC)	0.16	percent	0.05	0.02	
		E160.3M	Total Solids	94.7	percent	0	0	
		SW6020	Chromium	17	mg/Kg	0.21	0.01	
			Lead	17.6	mg/Kg	0.05	0.03	
			Zinc	42.4	mg/Kg	0.53	0.06	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.043	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.21	0.0074	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.017	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0065	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0045	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0087	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0049	
		SW8260B	Benzene	ND	mg/Kg	0.012	0.012	
			Ethylbenzene	1	mg/Kg	0.027	0.011	
			o-Xylene	0.13	mg/Kg	0.027	0.0083	
			Toluene	ND	mg/Kg	0.027	0.011	
			Xylene, Isomers m & p	1.5	mg/Kg	0.027	0.02	
		SW8270 SIM	Acenaphthene	0.18	mg/Kg	0.0053	0.00023	
			Acenaphthylene	ND	mg/Kg	0.0053	0.00017	
			Anthracene	0.0097	mg/Kg	0.0053	0.00021	
			Benzo(a)anthracene	0.00077	mg/Kg	0.0053	0.00014	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.0053	0.00015	
			Benzo(b)fluoranthene	0.00045	mg/Kg	0.0053	0.00015	VJ
			Benzo(g,h,i)perylene	0.0002	mg/Kg	0.0053	0.00011	VJ
			Benzo(k)fluoranthene	0.00018	mg/Kg	0.0053	0.00016	VJ
			Chrysene	0.0015	mg/Kg	0.0053	0.00016	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0053	0.0002	
			Fluoranthene	0.0019	mg/Kg	0.0053	0.00018	VJ
			Fluorene	0.52	mg/Kg	0.0053	0.00018	
			Indeno(1,2,3-cd)pyrene	0.00017	mg/Kg	0.0053	0.00016	VJ
			Naphthalene	7.9	mg/Kg	0.27	0.012	
			Phenanthrene	0.26	mg/Kg	0.0053	0.00016	
			Pyrene	0.0048	mg/Kg	0.0053	0.00012	VJ
02NE88SB014	NE13	AK101	Gasoline Range Organics (C6-C10)	130	mg/Kg	2.4	2.1	VHB
De(th 11-13 ft bgs		AK102	Diesel Range Organics (C10-C25)	9200	mg/Kg	110	48	
		AK103	Residual Range Organics	54	mg/Kg	110	4.4	VJ
		D4129	Total Organic Carbon (TOC)	0.14	percent	0.05	0.02	
		E160.3M	Total Solids	96	percent	0	0	
		SW6020	Chromium	11.6	mg/Kg	0.21	0.01	
			Lead	19.3	mg/Kg	0.05	0.03	
			Zinc	37.9	mg/Kg	0.52	0.06	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.042	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.21	0.0073	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.017	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0064	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0044	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0086	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0048	
		SW8260B	Benzene	ND	mg/Kg	0.011	0.011	
			Ethylbenzene	1.2	mg/Kg	0.026	0.011	
			o-Xylene	0.38	mg/Kg	0.026	0.0082	
			Toluene	ND	mg/Kg	0.026	0.011	
			Xylene, Isomers m & p	2.2	mg/Kg	0.026	0.02	
		SW8270 SIM	Acenaphthene	0.18	mg/Kg	0.0053	0.00022	
			Acenaphthylene	ND	mg/Kg	0.0053	0.00017	
			Anthracene	0.0094	mg/Kg	0.0053	0.0002	
			Benzo(a)anthracene	0.00076	mg/Kg	0.0053	0.00014	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.0053	0.00015	
			Benzo(b)fluoranthene	0.00094	mg/Kg	0.0053	0.00015	VJ
			Benzo(g,h,i)perylene	0.00015	mg/Kg	0.0053	0.00011	VJ
			Benzo(k)fluoranthene	ND	mg/Kg	0.0053	0.00016	
			Chrysene	0.0015	mg/Kg	0.0053	0.00016	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0053	0.00019	
			Fluoranthene	0.0019	mg/Kg	0.0053	0.00018	VJ

Summary of Soil Results Site 88
2002 Sampling Event

Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB014	NE13	SW8270 SIM	Fluorene	0.51	mg/Kg	0.0053	0.00018	
De(th 11-13 ft bgs			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0053	0.00016	
			Naphthalene	8.4	mg/Kg	0.27	0.011	
			Phenanthrene	0.25	mg/Kg	0.0053	0.00016	
			Pyrene	0.0043	mg/Kg	0.0053	0.00012	VJ
02NE88SB015	NE13	AK101	Gasoline Range Organics (C6-C10)	68	mg/Kg	4.5	2.2	VHB
Depth 10-12 ft bgs		AK102	Diesel Range Organics (C10-C25)	5200	mg/Kg	110	50	
		AK103	Residual Range Organics	11	mg/Kg	110	4.7	VJ
		E160.3M	Total Solids	91.6	percent	0	0	
		SW6020	Chromium	9.63	mg/Kg	1.09	0.05	
			Lead	13.4	mg/Kg	0.27	0.16	
			Zinc	40.7	mg/Kg	2.73	0.33	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.044	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0077	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0067	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0046	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.009	
			PCB-1260 (Aroclor 1260)	0.0065	mg/Kg	0.11	0.0051	VJ
		SW8260B	Benzene	ND	mg/Kg	0.018	0.012	
			Ethylbenzene	0.13	mg/Kg	0.044	0.011	
			o-Xylene	ND	mg/Kg	0.044	0.0086	
			Toluene	ND	mg/Kg	0.044	0.011	
			Xylene, Isomers m & p	0.17	mg/Kg	0.044	0.021	
		SW8270 SIM	Acenaphthene	0.21	mg/Kg	0.0055	0.00023	
			Acenaphthylene	ND	mg/Kg	0.0055	0.00018	
			Anthracene	0.0086	mg/Kg	0.0055	0.00021	
			Benzo(a)anthracene	0.00038	mg/Kg	0.0055	0.00015	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.0055	0.00016	
			Benzo(b)fluoranthene	0.00034	mg/Kg	0.0055	0.00016	VJ
			Benzo(g,h,i)perylene	0.00025	mg/Kg	0.0055	0.00011	VJ
			Benzo(k)fluoranthene	0.00017	mg/Kg	0.0055	0.00017	VJ
			Chrysene	0.00087	mg/Kg	0.0055	0.00017	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0055	0.0002	
			Fluoranthene	0.0012	mg/Kg	0.0055	0.00019	VJ
			Fluorene	0.69	mg/Kg	0.0055	0.00019	
			Indeno(1,2,3-cd)pyrene	0.0002	mg/Kg	0.0055	0.00017	VJ
			Naphthalene	3.3	mg/Kg	0.28	0.012	
			Phenanthrene	0.24	mg/Kg	0.0055	0.00017	
			Pyrene	0.0023	mg/Kg	0.0055	0.00013	VJ
		SW9060	Total Organic Carbon (TOC)	0.15	percent	0.05	0.02	
02NE88SB016	NE13	AK101	Gasoline Range Organics (C6-C10)	73	mg/Kg	4.7	2.2	VHB
Depth 14-16 ft bgs		AK102	Diesel Range Organics (C10-C25)	2300	mg/Kg	11	4.9	
		AK103	Residual Range Organics	7.4	mg/Kg	110	4.6	VJ
		E160.3M	Total Solids	92.5	percent	0	0	
		SW6020	Chromium	8.34	mg/Kg	1.08	0.05	
			Lead	19.2	mg/Kg	0.27	0.16	
			Zinc	39.4	mg/Kg	2.7	0.32	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.044	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0076	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0066	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0046	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0089	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.005	
		SW8260B	Benzene	ND	mg/Kg	0.018	0.012	
			Ethylbenzene	0.21	mg/Kg	0.045	0.011	
			o-Xylene	ND	mg/Kg	0.045	0.0085	
			Toluene	ND	mg/Kg	0.045	0.011	
			Xylene, Isomers m & p	0.18	mg/Kg	0.045	0.021	
		SW8270 SIM	Acenaphthene	0.11	mg/Kg	0.0055	0.00023	
			Acenaphthylene	ND	mg/Kg	0.0055	0.00018	
			Anthracene	0.0035	mg/Kg	0.0055	0.00021	VJ
			Benzo(a)anthracene	ND	mg/Kg	0.0055	0.00015	
			Benzo(a)pyrene	ND	mg/Kg	0.0055	0.00016	
			Benzo(b)fluoranthene	0.00032	mg/Kg	0.0055	0.00016	VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0055	0.00011	

Summary of Soil Results Site 88
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Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB016	NE13	SW8270 SIM	Benzo(k)fluoranthene	ND	mg/Kg	0.0055	0.00017	
Depth 14-16 ft bgs			Chrysene	0.00042	mg/Kg	0.0055	0.00017	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0055	0.0002	
			Fluoranthene	0.00048	mg/Kg	0.0055	0.00019	VJ
			Fluorene	0.35	mg/Kg	0.0055	0.00019	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0055	0.00017	
			Naphthalene	2.3	mg/Kg	0.28	0.012	
			Phenanthrene	0.12	mg/Kg	0.0055	0.00017	
			Pyrene	0.00095	mg/Kg	0.0055	0.00012	VJ
		SW9060	Total Organic Carbon (TOC)	0.16	percent	0.05	0.02	
02NE88SB017	NE19	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	3.5	2.1	
Depth 8-10 ft bgs		AK102	Diesel Range Organics (C10-C25)	7	mg/Kg	11	4.7	VJ
		AK103	Residual Range Organics	8.7	mg/Kg	110	4.4	VJ
		E160.3M	Total Solids	97.2	percent	0	0	
		SW6020	Chromium	7.04	mg/Kg	1.03	0.05	
			Lead	14.4	mg/Kg	0.26	0.15	
			Zinc	38.2	mg/Kg	2.57	0.31	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.042	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.21	0.0073	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.017	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0063	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0044	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0085	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0048	
		SW8260B	Benzene	ND	mg/Kg	0.015	0.011	
			Ethylbenzene	ND	mg/Kg	0.036	0.011	
			o-Xylene	ND	mg/Kg	0.036	0.0081	
			Toluene	ND	mg/Kg	0.036	0.011	
			Xylene, Isomers m & p	ND	mg/Kg	0.036	0.02	
		SW8270 SIM	Acenaphthene	ND	mg/Kg	0.0052	0.00022	
			Acenaphthylene	ND	mg/Kg	0.0052	0.00017	
			Anthracene	ND	mg/Kg	0.0052	0.0002	
			Benzo(a)anthracene	ND	mg/Kg	0.0052	0.00014	
			Benzo(a)pyrene	ND	mg/Kg	0.0052	0.00015	
			Benzo(b)fluoranthene	0.00023	mg/Kg	0.0052	0.00015	VJ
			Benzo(g,h,i)perylene	0.00014	mg/Kg	0.0052	0.00011	VJ
			Benzo(k)fluoranthene	ND	mg/Kg	0.0052	0.00016	
			Chrysene	0.00018	mg/Kg	0.0052	0.00016	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0052	0.00019	
			Fluoranthene	ND	mg/Kg	0.0052	0.00018	
			Fluorene	ND	mg/Kg	0.0052	0.00018	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0052	0.00016	
			Naphthalene	0.00045	mg/Kg	0.0052	0.00022	VJ
			Phenanthrene	0.0004	mg/Kg	0.0052	0.00016	VJ
			Pyrene	ND	mg/Kg	0.0052	0.00012	
		SW9060	Total Organic Carbon (TOC)	0.09	percent	0.05	0.02	
02NE88SB018	NE19	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	4.8	2.2	
Depth 20-22 ft bgs		AK102	Diesel Range Organics (C10-C25)	7.6	mg/Kg	11	5	VJ
		AK103	Residual Range Organics	12	mg/Kg	110	4.6	VJ
		E160.3M	Total Solids	91.7	percent	0	0	
		SW6020	Chromium	12.5	mg/Kg	1.09	0.05	
			Lead	17.8	mg/Kg	0.27	0.16	
			Zinc	48.4	mg/Kg	2.73	0.33	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.044	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0077	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0067	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0046	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.009	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0051	
		SW8260B	Benzene	ND	mg/Kg	0.016	0.012	
			Ethylbenzene	ND	mg/Kg	0.038	0.011	
			o-Xylene	ND	mg/Kg	0.038	0.0086	
			Toluene	ND	mg/Kg	0.038	0.011	
			Xylene, Isomers m & p	ND	mg/Kg	0.038	0.021	
		SW8270 SIM	Acenaphthene	ND	mg/Kg	0.0055	0.00023	
			Acenaphthylene	ND	mg/Kg	0.0055	0.00018	

Summary of Soil Results Site 88
2002 Sampling Event

Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB018	NE19	SW8270 SIM	Anthracene	ND	mg/Kg	0.0055	0.00021	
Depth 20-22 ft bgs			Benzo(a)anthracene	ND	mg/Kg	0.0055	0.00015	
			Benzo(a)pyrene	ND	mg/Kg	0.0055	0.00016	
			Benzo(b)fluoranthene	0.00034	mg/Kg	0.0055	0.00016	VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0055	0.00011	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0055	0.00017	
			Chrysene	0.00032	mg/Kg	0.0055	0.00017	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0055	0.0002	
			Fluoranthene	ND	mg/Kg	0.0055	0.00019	
			Fluorene	0.00022	mg/Kg	0.0055	0.00019	VJ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0055	0.00017	
			Naphthalene	0.0019	mg/Kg	0.0055	0.00023	VJ
			Phenanthrene	0.00068	mg/Kg	0.0055	0.00017	VJ
			Pyrene	0.00014	mg/Kg	0.0055	0.00012	VJ
		SW9060	Total Organic Carbon (TOC)	0.11	percent	0.05	0.02	
02NE88SB019	NE20	AK101	Gasoline Range Organics (C6-C10)	31	mg/Kg	3.5	2.2	
Depth 22-24 ft bgs		AK102	Diesel Range Organics (C10-C25)	1400	mg/Kg	11	4.9	
		AK103	Residual Range Organics	ND	mg/Kg	110	4.6	
		E160.3M	Total Solids	93.1	percent	0	0	
		SW6020	Chromium	10	mg/Kg	1.07	0.05	
			Lead	43.7	mg/Kg	0.27	0.16	
			Zinc	92.4	mg/Kg	2.69	0.32	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.043	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0076	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0066	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0046	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0089	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.005	
		SW8260B	Benzene	ND	mg/Kg	0.015	0.012	
			Ethylbenzene	0.018	mg/Kg	0.038	0.011	VJ
			o-Xylene	ND	mg/Kg	0.038	0.0085	
			Toluene	ND	mg/Kg	0.038	0.011	
			Xylene, Isomers m & p	ND	mg/Kg	0.038	0.02	
		SW8270 SIM	Acenaphthene	0.045	mg/Kg	0.0054	0.00023	
			Acenaphthylene	ND	mg/Kg	0.0054	0.00018	
			Anthracene	0.0021	mg/Kg	0.0054	0.00021	VJ
			Benzo(a)anthracene	ND	mg/Kg	0.0054	0.00014	
			Benzo(a)pyrene	ND	mg/Kg	0.0054	0.00016	
			Benzo(b)fluoranthene	0.00018	mg/Kg	0.0054	0.00016	VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0054	0.00011	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0054	0.00017	
			Chrysene	0.00035	mg/Kg	0.0054	0.00017	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0054	0.0002	
			Fluoranthene	0.00019	mg/Kg	0.0054	0.00019	VJ
			Fluorene	0.16	mg/Kg	0.0054	0.00019	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0054	0.00017	
			Naphthalene	0.48	mg/Kg	0.0054	0.00023	
			Phenanthrene	0.05	mg/Kg	0.0054	0.00017	
			Pyrene	0.00062	mg/Kg	0.0054	0.00012	VJ
		SW9060	Total Organic Carbon (TOC)	0.1	percent	0.05	0.02	
02NE88SB020	NE20	AK101	Gasoline Range Organics (C6-C10)	19	mg/Kg	4.4	2.2	
Depth 24-26 ft bgs		AK102	Diesel Range Organics (C10-C25)	750	mg/Kg	11	4.9	
		AK103	Residual Range Organics	ND	mg/Kg	110	4.6	
		E160.3M	Total Solids	92.8	percent	0	0	
		SW6020	Chromium	4.8	mg/Kg	1.08	0.05	
			Lead	60.5	mg/Kg	0.27	0.16	
			Zinc	87.4	mg/Kg	2.69	0.32	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.044	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0076	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0066	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0046	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0089	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.005	
		SW8260B	Benzene	ND	mg/Kg	0.015	0.012	
			Ethylbenzene	ND	mg/Kg	0.038	0.011	

Summary of Soil Results Site 88
2002 Sampling Event

Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB020	NE20	SW8260B	o-Xylene	ND	mg/Kg	0.038	0.0085	
Depth 24-26 ft bgs			Toluene	ND	mg/Kg	0.038	0.011	
			Xylene, Isomers m & p	ND	mg/Kg	0.038	0.021	
		SW8270 SIM	Acenaphthene	0.03	mg/Kg	0.0054	0.00023	
			Acenaphthylene	ND	mg/Kg	0.0054	0.00018	
			Anthracene	0.0019	mg/Kg	0.0054	0.00021	VJ
			Benzo(a)anthracene	ND	mg/Kg	0.0054	0.00015	
			Benzo(a)pyrene	ND	mg/Kg	0.0054	0.00016	
			Benzo(b)fluoranthene	0.0003	mg/Kg	0.0054	0.00016	VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0054	0.00011	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0054	0.00017	
			Chrysene	0.00023	mg/Kg	0.0054	0.00017	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0054	0.0002	
			Fluoranthene	0.00028	mg/Kg	0.0054	0.00019	VJ
			Fluorene	0.12	mg/Kg	0.0054	0.00019	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0054	0.00017	
			Naphthalene	0.11	mg/Kg	0.0054	0.00023	
			Phenanthrene	0.047	mg/Kg	0.0054	0.00017	
			Pyrene	0.0005	mg/Kg	0.0054	0.00012	VJ
		SW9060	Total Organic Carbon (TOC)	0.07	percent	0.05	0.02	
02NE88SB021	NE27	AK101	Gasoline Range Organics (C6-C10)	70	mg/Kg	9	4	
Depth 3-5 ft bgs		AK102	Diesel Range Organics (C10-C25)	13000	mg/Kg	390	180	
		AK103	Residual Range Organics	5100	mg/Kg	3900	170	
		D4129	Total Organic Carbon (TOC)	16.3	percent	0.05	0.02	
		E160.3M	Total Solids	50.8	percent	0	0	
		SW6020	Chromium	16.5	mg/Kg	0.39	0.02	
			Lead	13.4	mg/Kg	0.1	0.06	
			Zinc	44.3	mg/Kg	0.98	0.12	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.2	0.079	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.39	0.014	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.2	0.032	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.2	0.013	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.2	0.0083	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.2	0.017	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.2	0.0091	
		SW8260B	Benzene	0.12	mg/Kg	0.031	0.021	
			Ethylbenzene	1.3	mg/Kg	0.078	0.02	
			o-Xylene	2.7	mg/Kg	0.078	0.016	
			Toluene	3.2	mg/Kg	0.078	0.02	
			Xylene, Isomers m & p	5.1	mg/Kg	0.078	0.037	
		SW8270 SIM	Acenaphthene	0.18	mg/Kg	0.05	0.0021	
			Acenaphthylene	ND	mg/Kg	0.05	0.0016	
			Anthracene	0.012	mg/Kg	0.05	0.0019	VJ
			Benzo(a)anthracene	ND	mg/Kg	0.05	0.0013	
			Benzo(a)pyrene	ND	mg/Kg	0.05	0.0014	
			Benzo(b)fluoranthene	0.0052	mg/Kg	0.05	0.0014	VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.05	0.00099	
			Benzo(k)fluoranthene	ND	mg/Kg	0.05	0.0015	
			Chrysene	ND	mg/Kg	0.05	0.0015	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.05	0.0018	
			Fluoranthene	0.0029	mg/Kg	0.05	0.0017	VJ
			Fluorene	0.33	mg/Kg	0.05	0.0017	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.05	0.0015	
			Naphthalene	12	mg/Kg	0.5	0.021	
			Phenanthrene	0.21	mg/Kg	0.05	0.0015	
			Pyrene	0.0059	mg/Kg	0.05	0.0011	VJ
02NE88SB022	NE27	AK101	Gasoline Range Organics (C6-C10)	99	mg/Kg	8.1	4.4	
Depth 7-9 ft bgs		AK102	Diesel Range Organics (C10-C25)	51000	mg/Kg	260	120	
		AK103	Residual Range Organics	6000	mg/Kg	2600	110	
		D4129	Total Organic Carbon (TOC)	14.9	percent	0.05	0.02	
		E160.3M	Total Solids	46.3	percent	0	0	
		SW6020	Chromium	23.7	mg/Kg	0.43	0.02	
			Lead	61.9	mg/Kg	0.11	0.06	
			Zinc	110	mg/Kg	1.08	0.13	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.22	0.087	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.43	0.016	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.22	0.035	

Summary of Soil Results Site 88
2002 Sampling Event

Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB022	NE27	SW8082	PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.22	0.014	
Depth 7-9 ft bgs			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.22	0.0091	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.22	0.018	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.22	0.01	
		SW8260B	Benzene	0.19	mg/Kg	0.039	0.023	
			Ethylbenzene	2.8	mg/Kg	0.097	0.022	
			o-Xylene	6.2	mg/Kg	0.097	0.017	
			Toluene	4.5	mg/Kg	0.097	0.022	
			Xylene, Isomers m & p	12	mg/Kg	0.097	0.041	
		SW8270 SIM	Acenaphthene	2.6	mg/Kg	0.14	0.0057	VHB
			Acenaphthylene	ND	mg/Kg	0.14	0.0044	
			Anthracene	0.3	mg/Kg	0.14	0.0052	VHB
			Benzo(a)anthracene	0.006	mg/Kg	0.14	0.0036	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.14	0.0038	
			Benzo(b)fluoranthene	0.016	mg/Kg	0.14	0.0038	VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.14	0.0027	
			Benzo(k)fluoranthene	ND	mg/Kg	0.14	0.0041	
			Chrysene	ND	mg/Kg	0.14	0.0041	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.14	0.0049	
			Fluoranthene	0.048	mg/Kg	0.14	0.0046	VJ
			Fluorene	6.9	mg/Kg	0.14	0.0046	VHB
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.14	0.0041	
			Naphthalene	81	mg/Kg	2.7	0.12	
			Phenanthrene	5.5	mg/Kg	0.14	0.0041	VHB
			Pyrene	0.12	mg/Kg	0.14	0.003	VJ
02NE88SB023	NE27	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	5.2	2.7	
Depth 4-6 ft bgs		AK102	Diesel Range Organics (C10-C25)	190	mg/Kg	14	5.9	
		AK103	Residual Range Organics	1500	mg/Kg	140	5.6	
		E160.3M	Total Solids	76.6	percent	0	0	
		SW6020	Chromium	12.4	mg/Kg	1.09	0.05	
			Lead	8.45	mg/Kg	0.27	0.16	
			Zinc	30	mg/Kg	2.72	0.33	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.14	0.053	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.27	0.0092	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.14	0.021	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.14	0.008	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.14	0.0055	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.14	0.011	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.14	0.0061	
		SW8260B	Benzene	ND	mg/Kg	0.022	0.014	
			Ethylbenzene	ND	mg/Kg	0.054	0.013	
			o-Xylene	ND	mg/Kg	0.054	0.011	
			Toluene	ND	mg/Kg	0.054	0.013	
			Xylene, Isomers m & p	ND	mg/Kg	0.054	0.025	
		SW8270 SIM	Acenaphthene	0.00028	mg/Kg	0.0066	0.00028	VJ
			Acenaphthylene	ND	mg/Kg	0.0066	0.00021	
			Anthracene	0.00081	mg/Kg	0.0066	0.00025	VJ
			Benzo(a)anthracene	0.00027	mg/Kg	0.0066	0.00017	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.0066	0.00019	
			Benzo(b)fluoranthene	0.00048	mg/Kg	0.0066	0.00019	VJ
			Benzo(g,h,i)perylene	0.0002	mg/Kg	0.0066	0.00014	VJ
			Benzo(k)fluoranthene	ND	mg/Kg	0.0066	0.0002	
			Chrysene	0.00067	mg/Kg	0.0066	0.0002	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0066	0.00024	
			Fluoranthene	0.00088	mg/Kg	0.0066	0.00023	VJ
			Fluorene	0.00068	mg/Kg	0.0066	0.00023	VJ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0066	0.0002	
			Naphthalene	0.0045	mg/Kg	0.0066	0.00028	VJ
			Phenanthrene	0.0022	mg/Kg	0.0066	0.0002	VJ
			Pyrene	0.0008	mg/Kg	0.0066	0.00015	VJ
		SW9060	Total Organic Carbon (TOC)	8.09	percent	0.05	0.02	
02NE88SB024	NE27	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	3.8	2.2	
Depth 10-12 ft bgs		AK102	Diesel Range Organics (C10-C25)	20	mg/Kg	11	4.9	
		AK103	Residual Range Organics	33	mg/Kg	110	4.6	VJ
		E160.3M	Total Solids	92.3	percent	0	0	
		SW6020	Chromium	9.62	mg/Kg	1.08	0.05	
			Lead	17.3	mg/Kg	0.27	0.16	

Summary of Soil Results Site 88
2002 Sampling Event

Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB024	NE27	SW6020	Zinc	44.5	mg/Kg	2.71	0.33	
Depth 10-12 ft bgs		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.044	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0076	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0067	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0046	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0089	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.005	
		SW8260B	Benzene	ND	mg/Kg	0.017	0.012	
			Ethylbenzene	ND	mg/Kg	0.043	0.011	
			o-Xylene	ND	mg/Kg	0.043	0.0086	
			Toluene	ND	mg/Kg	0.043	0.011	
			Xylene, Isomers m & p	ND	mg/Kg	0.043	0.021	
		SW8270 SIM	Acenaphthene	ND	mg/Kg	0.0055	0.00023	
			Acenaphthylene	ND	mg/Kg	0.0055	0.00018	
			Anthracene	ND	mg/Kg	0.0055	0.00021	
			Benzo(a)anthracene	ND	mg/Kg	0.0055	0.00015	
			Benzo(a)pyrene	ND	mg/Kg	0.0055	0.00016	
			Benzo(b)fluoranthene	0.00027	mg/Kg	0.0055	0.00016	VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0055	0.00011	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0055	0.00017	
			Chrysene	ND	mg/Kg	0.0055	0.00017	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0055	0.0002	
			Fluoranthene	0.00019	mg/Kg	0.0055	0.00019	VJ
			Fluorene	0.00051	mg/Kg	0.0055	0.00019	VJ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0055	0.00017	
			Naphthalene	0.0011	mg/Kg	0.0055	0.00023	VJ
			Phenanthrene	0.00084	mg/Kg	0.0055	0.00017	VJ
			Pyrene	0.00017	mg/Kg	0.0055	0.00012	VJ
		SW9060	Total Organic Carbon (TOC)	0.15	percent	0.05	0.02	
02NE88SB025	NE27	AK101	Gasoline Range Organics (C6-C10)	11	mg/Kg	19	7.4	VJ
Depth 6-8 ft bgs		AK102	Diesel Range Organics (C10-C25)	430	mg/Kg	40	18	
		AK103	Residual Range Organics	4600	mg/Kg	400	17	
		E160.3M	Total Solids	48.5	percent	0	0	
		SW6020	Chromium	16.5	mg/Kg	0.83	0.04	
			Lead	9.91	mg/Kg	0.21	0.12	
			Zinc	42	mg/Kg	2.06	0.25	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.21	0.083	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.42	0.015	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.21	0.033	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.21	0.013	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.21	0.0087	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.21	0.017	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.21	0.0095	
		SW8260B	Benzene	0.37	mg/Kg	0.069	0.036	
			Ethylbenzene	0.034	mg/Kg	0.18	0.034	VJ
			o-Xylene	0.071	mg/Kg	0.18	0.027	VJ
			Toluene	ND	mg/Kg	0.18	0.034	
			Xylene, Isomers m & p	0.19	mg/Kg	0.18	0.064	
		SW8270 SIM	Acenaphthene	0.0026	mg/Kg	0.021	0.00087	VJ
			Acenaphthylene	0.0011	mg/Kg	0.021	0.00066	VJ
			Anthracene	ND	mg/Kg	0.021	0.00079	
			Benzo(a)anthracene	ND	mg/Kg	0.021	0.00054	
			Benzo(a)pyrene	ND	mg/Kg	0.021	0.00058	
			Benzo(b)fluoranthene	0.021	mg/Kg	0.021	0.00058	VJ
			Benzo(g,h,i)perylene	0.0088	mg/Kg	0.021	0.00042	VJ
			Benzo(k)fluoranthene	ND	mg/Kg	0.021	0.00062	
			Chrysene	ND	mg/Kg	0.021	0.00062	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.021	0.00075	
			Fluoranthene	0.0025	mg/Kg	0.021	0.00071	VJ
			Fluorene	0.006	mg/Kg	0.021	0.00071	VJ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.021	0.00062	
			Naphthalene	0.042	mg/Kg	0.021	0.00087	
			Phenanthrene	0.0083	mg/Kg	0.021	0.00062	VJ
			Pyrene	0.0026	mg/Kg	0.021	0.00046	VJ
		SW9060	Total Organic Carbon (TOC)	16.5	percent	0.05	0.02	

Summary of Soil Results Site 88
2002 Sampling Event

Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB026	NE27	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	6.1	3.1	
Depth 14-16 ft bgs		AK102	Diesel Range Organics (C10-C25)	77	mg/Kg	28	13	
		AK103	Residual Range Organics	420	mg/Kg	280	12	
		E160.3M	Total Solids	66.3	percent	0	0	
		SW6020	Chromium	14.3	mg/Kg	0.75	0.04	
			Lead	21.4	mg/Kg	0.19	0.11	
			Zinc	77.5	mg/Kg	1.89	0.23	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.15	0.061	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.3	0.011	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.15	0.025	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.15	0.0093	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.15	0.0064	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.15	0.013	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.15	0.007	
		SW8260B	Benzene	ND	mg/Kg	0.022	0.016	
			Ethylbenzene	ND	mg/Kg	0.054	0.015	
			o-Xylene	ND	mg/Kg	0.054	0.012	
			Toluene	ND	mg/Kg	0.054	0.015	
			Xylene, Isomers m & p	ND	mg/Kg	0.054	0.029	
		SW8270 SIM	Acenaphthene	0.00037	mg/Kg	0.0076	0.00032	VJ
			Acenaphthylene	ND	mg/Kg	0.0076	0.00025	
			Anthracene	ND	mg/Kg	0.0076	0.00029	
			Benzo(a)anthracene	ND	mg/Kg	0.0076	0.0002	
			Benzo(a)pyrene	ND	mg/Kg	0.0076	0.00022	
			Benzo(b)fluoranthene	0.00057	mg/Kg	0.0076	0.00022	VJ
			Benzo(g,h,i)perylene	0.00021	mg/Kg	0.0076	0.00016	VJ
			Benzo(k)fluoranthene	ND	mg/Kg	0.0076	0.00023	
			Chrysene	0.0029	mg/Kg	0.0076	0.00023	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0076	0.00028	
			Fluoranthene	0.0004	mg/Kg	0.0076	0.00026	VJ
			Fluorene	0.00061	mg/Kg	0.0076	0.00026	VJ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0076	0.00023	
			Naphthalene	0.0018	mg/Kg	0.0076	0.00032	VJ
			Phenanthrene	0.0027	mg/Kg	0.0076	0.00023	VJ
			Pyrene	0.0004	mg/Kg	0.0076	0.00017	VJ
		SW9060	Total Organic Carbon (TOC)	1.62	percent	0.05	0.02	
02NE88SB027	NE27	AK101	Gasoline Range Organics (C6-C10)	220	mg/Kg	5.4	2.5	VHB
Depth 2-4 ft bgs		AK102	Diesel Range Organics (C10-C25)	47000	mg/Kg	250	110	
		AK103	Residual Range Organics	3000	mg/Kg	130	5.2	
		E160.3M	Total Solids	82.3	percent	0	0	
		SW6020	Chromium	22.7	mg/Kg	1.22	0.06	
			Lead	21.8	mg/Kg	0.3	0.18	
			Zinc	82.1	mg/Kg	3.04	0.37	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.13	0.049	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.25	0.0086	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.13	0.02	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.13	0.0075	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.13	0.0052	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.13	0.01	
			PCB-1260 (Aroclor 1260)	0.035	mg/Kg	0.13	0.0056	VJ
		SW8260B	Benzene	0.019	mg/Kg	0.017	0.013	
			Ethylbenzene	0.066	mg/Kg	0.041	0.012	
			o-Xylene	1.7	mg/Kg	0.041	0.0096	
			Toluene	0.036	mg/Kg	0.041	0.012	VJ
			Xylene, Isomers m & p	0.71	mg/Kg	0.041	0.023	
		SW8270 SIM	Acenaphthene	1.3	mg/Kg	0.031	0.0013	
			Acenaphthylene	ND	mg/Kg	0.031	0.00098	
			Anthracene	0.12	mg/Kg	0.031	0.0012	
			Benzo(a)anthracene	0.012	mg/Kg	0.031	0.00079	VJ
			Benzo(a)pyrene	0.0032	mg/Kg	0.031	0.00086	VJ
			Benzo(b)fluoranthene	0.007	mg/Kg	0.031	0.00086	VJ
			Benzo(g,h,i)perylene	0.0016	mg/Kg	0.031	0.00061	VJ
			Benzo(k)fluoranthene	0.0033	mg/Kg	0.031	0.00092	VJ
			Chrysene	0.024	mg/Kg	0.031	0.00092	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.031	0.0011	
			Fluoranthene	0.033	mg/Kg	0.031	0.0011	
			Fluorene	3.9	mg/Kg	0.031	0.0011	
			Indeno(1,2,3-cd)pyrene	0.0018	mg/Kg	0.031	0.00092	VJ

Summary of Soil Results Site 88
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Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB027 Depth 2-4 ft bgs	NE27	SW8270 SIM	Naphthalene	79	mg/Kg	3.1	0.13	
			Phenanthrene	2.7	mg/Kg	0.031	0.00092	
			Pyrene	0.06	mg/Kg	0.031	0.00067	
		SW9060	Total Organic Carbon (TOC)	4.67	percent	0.05	0.02	
02NE88SB028 Depth 12-14 ft bgs	NE27	AK101	Gasoline Range Organics (C6-C10)	62	mg/Kg	4.5	2.8	
		AK102	Diesel Range Organics (C10-C25)	210	mg/Kg	25	12	
		AK103	Residual Range Organics	900	mg/Kg	250	11	
		E160.3M	Total Solids	72.4	percent	0	0	
		SW6020	Chromium	22.8	mg/Kg	1.15	0.06	
			Lead	11.6	mg/Kg	0.29	0.17	
			Zinc	59.9	mg/Kg	2.88	0.35	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.14	0.056	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.28	0.0097	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.14	0.023	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.14	0.0085	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.14	0.0059	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.14	0.012	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.14	0.0064	
		SW8260B	Benzene	0.024	mg/Kg	0.018	0.015	
			Ethylbenzene	0.19	mg/Kg	0.045	0.014	
			o-Xylene	1.7	mg/Kg	0.045	0.011	
			Toluene	1.4	mg/Kg	0.045	0.014	
			Xylene, Isomers m & p	1.3	mg/Kg	0.045	0.026	
		SW8270 SIM	Acenaphthene	0.012	mg/Kg	0.0069	0.0003	
			Acenaphthylene	ND	mg/Kg	0.0069	0.00023	
			Anthracene	0.00076	mg/Kg	0.0069	0.00027	VJ
			Benzo(a)anthracene	0.00032	mg/Kg	0.0069	0.00018	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.0069	0.0002	
			Benzo(b)fluoranthene	0.0012	mg/Kg	0.0069	0.0002	VJ
			Benzo(g,h,i)perylene	0.00048	mg/Kg	0.0069	0.00014	VJ
			Benzo(k)fluoranthene	ND	mg/Kg	0.0069	0.00021	
			Chrysene	0.0029	mg/Kg	0.0069	0.00021	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0069	0.00025	
			Fluoranthene	0.00069	mg/Kg	0.0069	0.00024	VJ
			Fluorene	0.04	mg/Kg	0.0069	0.00024	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0069	0.00021	
			Naphthalene	0.41	mg/Kg	0.0069	0.0003	
			Phenanthrene	0.025	mg/Kg	0.0069	0.00021	
			Pyrene	0.001	mg/Kg	0.0069	0.00016	VJ
		SW9060	Total Organic Carbon (TOC)	2.79	percent	0.05	0.02	
02NE88SB029 Depth 10-12 ft bgs	NE13	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	4.9	2.5	
		AK102	Diesel Range Organics (C10-C25)	33	mg/Kg	13	5.6	
		AK103	Residual Range Organics	150	mg/Kg	130	5.3	
		E160.3M	Total Solids	80.7	percent	0	0	
		SW6020	Chromium	23	mg/Kg	1.03	0.05	
			Lead	12	mg/Kg	0.26	0.16	
			Zinc	61.9	mg/Kg	2.58	0.31	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.13	0.05	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.25	0.0087	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.13	0.02	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.13	0.0076	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.13	0.0053	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.13	0.011	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.13	0.0058	
		SW8260B	Benzene	ND	mg/Kg	0.018	0.014	
			Ethylbenzene	ND	mg/Kg	0.044	0.013	
			o-Xylene	0.01	mg/Kg	0.044	0.0098	VJ
			Toluene	ND	mg/Kg	0.044	0.013	
			Xylene, Isomers m & p	ND	mg/Kg	0.044	0.024	
		SW8270 SIM	Acenaphthene	0.00038	mg/Kg	0.0062	0.00027	VJ
			Acenaphthylene	ND	mg/Kg	0.0062	0.0002	
			Anthracene	0.0003	mg/Kg	0.0062	0.00024	VJ
			Benzo(a)anthracene	0.00024	mg/Kg	0.0062	0.00017	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.0062	0.00018	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0062	0.00018	
			Benzo(g,h,i)perylene	0.00024	mg/Kg	0.0062	0.00013	VJ
			Benzo(k)fluoranthene	ND	mg/Kg	0.0062	0.00019	

Summary of Soil Results Site 88
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Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB029	NE13	SW8270 SIM	Chrysene	0.0013	mg/Kg	0.0062	0.00019	VJ
Depth 10-12 ft bgs			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0062	0.00023	
			Fluoranthene	0.00077	mg/Kg	0.0062	0.00022	VJ
			Fluorene	0.0012	mg/Kg	0.0062	0.00022	VJ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0062	0.00019	
			Naphthalene	0.016	mg/Kg	0.0062	0.00027	
			Phenanthrene	0.0034	mg/Kg	0.0062	0.00019	VJ
			Pyrene	0.00066	mg/Kg	0.0062	0.00014	VJ
		SW9060	Total Organic Carbon (TOC)	0.6	percent	0.05	0.02	
02NE88SB030	NE13	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	4.4	2.6	
Depth 12-14 ft bgs		AK102	Diesel Range Organics (C10-C25)	79	mg/Kg	13	5.8	
		AK103	Residual Range Organics	590	mg/Kg	130	5.5	
		E160.3M	Total Solids	78	percent	0	0	
		SW6020	Chromium	23.4	mg/Kg	1.07	0.05	
			Lead	12.4	mg/Kg	0.27	0.16	
			Zinc	60.9	mg/Kg	2.67	0.32	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.13	0.052	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.26	0.009	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.13	0.021	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.13	0.0079	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.13	0.0054	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.13	0.011	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.13	0.0059	
		SW8260B	Benzene	ND	mg/Kg	0.021	0.014	
			Ethylbenzene	ND	mg/Kg	0.052	0.013	
			o-Xylene	ND	mg/Kg	0.052	0.011	
			Toluene	ND	mg/Kg	0.052	0.013	
			Xylene, Isomers m & p	ND	mg/Kg	0.052	0.024	
		SW8270 SIM	Acenaphthene	ND	mg/Kg	0.0064	0.00027	
			Acenaphthylene	ND	mg/Kg	0.0064	0.00021	
			Anthracene	ND	mg/Kg	0.0064	0.00025	
			Benzo(a)anthracene	ND	mg/Kg	0.0064	0.00017	
			Benzo(a)pyrene	ND	mg/Kg	0.0064	0.00018	
			Benzo(b)fluoranthene	0.0017	mg/Kg	0.0064	0.00018	VJ
			Benzo(g,h,i)perylene	0.00044	mg/Kg	0.0064	0.00013	VJ
			Benzo(k)fluoranthene	ND	mg/Kg	0.0064	0.0002	
			Chrysene	0.0021	mg/Kg	0.0064	0.0002	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0064	0.00024	
			Fluoranthene	0.00044	mg/Kg	0.0064	0.00022	VJ
			Fluorene	0.00087	mg/Kg	0.0064	0.00022	VJ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0064	0.0002	
			Naphthalene	0.0047	mg/Kg	0.0064	0.00027	VJ
			Phenanthrene	0.0055	mg/Kg	0.0064	0.0002	VJ
			Pyrene	0.00066	mg/Kg	0.0064	0.00015	VJ
		SW9060	Total Organic Carbon (TOC)	2.26	percent	0.05	0.02	
02NE88SB031	NE15	AK101	Gasoline Range Organics (C6-C10)	110	mg/Kg	4	2.2	VHB
Depth 6-8 ft bgs		AK102	Diesel Range Organics (C10-C25)	16000	mg/Kg	110	50	
		AK103	Residual Range Organics	33	mg/Kg	110	4.7	VJ
		E160.3M	Total Solids	91.1	percent	0	0	
		SW6020	Chromium	15.6	mg/Kg	1.1	0.05	
			Lead	12.4	mg/Kg	0.27	0.17	
			Zinc	46.7	mg/Kg	2.74	0.33	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.044	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0077	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0067	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0047	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0091	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0051	
		SW8260B	Benzene	ND	mg/Kg	0.015	0.012	
			Ethylbenzene	1	mg/Kg	0.036	0.011	
			o-Xylene	0.015	mg/Kg	0.036	0.0087	VJ
			Toluene	0.032	mg/Kg	0.036	0.011	VJ
			Xylene, Isomers m & p	1.8	mg/Kg	0.036	0.021	
		SW8270 SIM	Acenaphthene	0.85	mg/Kg	0.055	0.0024	
			Acenaphthylene	ND	mg/Kg	0.055	0.0018	
			Anthracene	0.043	mg/Kg	0.0055	0.00021	

Summary of Soil Results Site 88
2002 Sampling Event

Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB031 Depth 6-8 ft bgs	NE15	SW8270 SIM	Benzo(a)anthracene	0.0017	mg/Kg	0.0055	0.00015	VJ
			Benzo(a)pyrene	0.00041	mg/Kg	0.0055	0.00016	VJ
			Benzo(b)fluoranthene	0.0017	mg/Kg	0.0055	0.00016	VJ
			Benzo(g,h,i)perylene	0.00045	mg/Kg	0.0055	0.00011	VJ
			Benzo(k)fluoranthene	0.0016	mg/Kg	0.0055	0.00017	VJ
			Chrysene	0.0038	mg/Kg	0.0055	0.00017	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0055	0.0002	
			Fluoranthene	0.0058	mg/Kg	0.0055	0.00019	
			Fluorene	2.7	mg/Kg	0.055	0.0019	
			Indeno(1,2,3-cd)pyrene	0.00019	mg/Kg	0.0055	0.00017	VJ
			Naphthalene	28	mg/Kg	0.55	0.024	
			Phenanthrene	0.95	mg/Kg	0.0055	0.00017	
			Pyrene	0.01	mg/Kg	0.0055	0.00013	
		SW9060	Total Organic Carbon (TOC)	0.34	percent	0.05	0.02	
02NE88SB032 Depth 10-12 ft bgs	NE15	AK101	Gasoline Range Organics (C6-C10)	60	mg/Kg	4.5	2.2	VHB
		AK102	Diesel Range Organics (C10-C25)	4200	mg/Kg	11	4.9	
		AK103	Residual Range Organics	12	mg/Kg	110	4.6	VJ
		E160.3M	Total Solids	93.5	percent	0	0	
		SW6020	Chromium	6.7	mg/Kg	1.07	0.05	
			Lead	29.6	mg/Kg	0.27	0.16	
			Zinc	60.8	mg/Kg	2.67	0.32	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.043	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0075	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0066	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0045	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0088	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.005	
		SW8260B	Benzene	ND	mg/Kg	0.017	0.012	
			Ethylbenzene	0.025	mg/Kg	0.041	0.011	VJ
			o-Xylene	ND	mg/Kg	0.041	0.0084	
			Toluene	ND	mg/Kg	0.041	0.011	
			Xylene, Isomers m & p	0.043	mg/Kg	0.041	0.02	
		SW8270 SIM	Acenaphthene	0.11	mg/Kg	0.0054	0.00023	VLB
			Acenaphthylene	ND	mg/Kg	0.0054	0.00018	
			Anthracene	0.011	mg/Kg	0.0054	0.00021	VLB
			Benzo(a)anthracene	0.00037	mg/Kg	0.0054	0.00014	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.0054	0.00015	
			Benzo(b)fluoranthene	0.00042	mg/Kg	0.0054	0.00015	VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0054	0.00011	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0054	0.00017	
			Chrysene	0.00094	mg/Kg	0.0054	0.00017	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0054	0.0002	
			Fluoranthene	0.0017	mg/Kg	0.0054	0.00019	VJ
			Fluorene	0.47	mg/Kg	0.0054	0.00019	VLB
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0054	0.00017	
			Naphthalene	0.9	mg/Kg	0.0054	0.00023	VLB
			Phenanthrene	0.27	mg/Kg	0.0054	0.00017	VLB
			Pyrene	0.0035	mg/Kg	0.0054	0.00012	VJ
		SW9060	Total Organic Carbon (TOC)	0.12	percent	0.05	0.02	
02NE88SB033 Depth 8-10 ft bgs	NE13	AK101	Gasoline Range Organics (C6-C10)	130	mg/Kg	2.6	2.4	VHB
		AK102	Diesel Range Organics (C10-C25)	4700	mg/Kg	120	53	
		AK103	Residual Range Organics	450	mg/Kg	120	4.9	
		E160.3M	Total Solids	86.5	percent	0	0	
		SW6020	Chromium	18.2	mg/Kg	0.23	0.03	
			Lead	14.7	mg/Kg	0.06	0.03	
			Zinc	50.8	mg/Kg	0.6	0.1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.12	0.047	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.24	0.0081	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.12	0.019	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.12	0.0071	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.12	0.0049	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.12	0.0095	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.12	0.0054	
		SW8260B	Benzene	ND	mg/Kg	0.013	0.013	
			Ethylbenzene	1.2	mg/Kg	0.021	0.012	VHB
			o-Xylene	1.5	mg/Kg	0.021	0.0091	VHB

Summary of Soil Results Site 88
2002 Sampling Event

Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB033	NE13	SW8260B	Toluene	0.05	mg/Kg	0.021	0.012	VHB
Depth 8-10 ft bgs			Xylene, Isomers m & p	4	mg/Kg	0.022	0.022	VHB
		SW8270 SIM	Acenaphthene	0.19	mg/Kg	0.0058	0.00025	
			Acenaphthylene	ND	mg/Kg	0.0058	0.00019	
			Anthracene	0.0085	mg/Kg	0.0058	0.00022	
			Benzo(a)anthracene	0.001	mg/Kg	0.0058	0.00016	VJ
			Benzo(a)pyrene	0.00028	mg/Kg	0.0058	0.00017	VJ
			Benzo(b)fluoranthene	0.0013	mg/Kg	0.0058	0.00017	VJ
			Benzo(g,h,i)perylene	0.00054	mg/Kg	0.0058	0.00012	VJ
			Benzo(k)fluoranthene	ND	mg/Kg	0.0058	0.00018	
			Chrysene	0.0033	mg/Kg	0.0058	0.00018	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0058	0.00021	
			Fluoranthene	0.0021	mg/Kg	0.0058	0.0002	VJ
			Fluorene	0.44	mg/Kg	0.0058	0.0002	
			Indeno(1,2,3-cd)pyrene	0.00023	mg/Kg	0.0058	0.00018	VJ
			Naphthalene	12	mg/Kg	0.29	0.013	
			Phenanthrene	0.25	mg/Kg	0.0058	0.00018	
			Pyrene	0.0049	mg/Kg	0.0058	0.00013	VJ
		SW9060	Total Organic Carbon (TOC)	1.1	percent	0.05	0.02	
02NE88SB034	NE13	AK101	Gasoline Range Organics (C6-C10)	140	mg/Kg	3	2.3	VHB
Depth 12-14 ft bgs		AK102	Diesel Range Organics (C10-C25)	4300	mg/Kg	120	51	
		AK103	Residual Range Organics	110	mg/Kg	120	4.8	VJ
		E160.3M	Total Solids	89.3	percent	0	0	
		SW6020	Chromium	8.31	mg/Kg	0.22	0.03	
			Lead	15	mg/Kg	0.06	0.03	
			Zinc	31.8	mg/Kg	0.6	0.1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.12	0.045	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.23	0.0079	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.12	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.12	0.0069	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.12	0.0048	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.12	0.0092	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.12	0.0052	
		SW8260B	Benzene	ND	mg/Kg	0.012	0.012	
			Ethylbenzene	0.94	mg/Kg	0.023	0.011	VHB
			o-Xylene	0.34	mg/Kg	0.023	0.0088	VHB
			Toluene	ND	mg/Kg	0.023	0.011	
			Xylene, Isomers m & p	3	mg/Kg	0.023	0.021	VHB
		SW8270 SIM	Acenaphthene	0.11	mg/Kg	0.0056	0.00024	
			Acenaphthylene	ND	mg/Kg	0.0056	0.00018	
			Anthracene	0.0041	mg/Kg	0.0056	0.00022	VJ
			Benzo(a)anthracene	0.00043	mg/Kg	0.0056	0.00015	VJ
			Benzo(a)pyrene	0.00025	mg/Kg	0.0056	0.00016	VJ
			Benzo(b)fluoranthene	0.0038	mg/Kg	0.0056	0.00016	VJ
			Benzo(g,h,i)perylene	0.00041	mg/Kg	0.0056	0.00012	VJ
			Benzo(k)fluoranthene	0.0036	mg/Kg	0.0056	0.00017	VJ
			Chrysene	0.0013	mg/Kg	0.0056	0.00017	VJ
			Dibenzo(a,h)anthracene	0.00026	mg/Kg	0.0056	0.00021	VJ
			Fluoranthene	0.001	mg/Kg	0.0056	0.0002	VJ
			Fluorene	0.24	mg/Kg	0.0056	0.0002	
			Indeno(1,2,3-cd)pyrene	0.00034	mg/Kg	0.0056	0.00017	VJ
			Naphthalene	3.6	mg/Kg	0.28	0.012	
			Phenanthrene	0.11	mg/Kg	0.0056	0.00017	
			Pyrene	0.0024	mg/Kg	0.0056	0.00013	VJ
		SW9060	Total Organic Carbon (TOC)	0.33	percent	0.05	0.02	VJ
02NE88SB234	NE13	AK101	Gasoline Range Organics (C6-C10)	110	mg/Kg	2.3	2.2	VHB
(FD of SB034)		AK102	Diesel Range Organics (C10-C25)	3100	mg/Kg	11	5	
		AK103	Residual Range Organics	54	mg/Kg	110	4.7	VJ
		E160.3M	Total Solids	91.2	percent	0	0	
		SW6020	Chromium	10.8	mg/Kg	0.22	0.03	
			Lead	15.3	mg/Kg	0.05	0.03	
			Zinc	40.2	mg/Kg	0.5	0.1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.044	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0077	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0067	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0047	

Summary of Soil Results Site 88
2002 Sampling Event

Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB234 (FD of SB034)	NE13	SW8082	PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.009	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0051	
		SW8260B	Benzene	ND	mg/Kg	0.012	0.012	
			Ethylbenzene	0.83	mg/Kg	0.025	0.011	VHB
			o-Xylene	0.27	mg/Kg	0.025	0.0087	VHB
			Toluene	ND	mg/Kg	0.025	0.011	
			Xylene, Isomers m & p	2.8	mg/Kg	0.025	0.021	VHB
		SW8270 SIM	Acenaphthene	0.089	mg/Kg	0.0055	0.00024	
			Acenaphthylene	ND	mg/Kg	0.0055	0.00018	
			Anthracene	0.0033	mg/Kg	0.0055	0.00021	VJ
			Benzo(a)anthracene	0.00021	mg/Kg	0.0055	0.00015	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.0055	0.00016	
			Benzo(b)fluoranthene	0.00041	mg/Kg	0.0055	0.00016	VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0055	0.00011	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0055	0.00017	
			Chrysene	0.00091	mg/Kg	0.0055	0.00017	VJ
			Dibenzo(a,h)anthracene	0.00031	mg/Kg	0.0055	0.0002	VJ
			Fluoranthene	0.00079	mg/Kg	0.0055	0.00019	VJ
			Fluorene	0.2	mg/Kg	0.0055	0.00019	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0055	0.00017	
			Naphthalene	3.8	mg/Kg	0.28	0.012	
			Phenanthrene	0.091	mg/Kg	0.0055	0.00017	
			Pyrene	0.0018	mg/Kg	0.0055	0.00013	VJ
		SW9060	Total Organic Carbon (TOC)	0.19	percent	0.05	0.02	
02NE88SB035 Depth 8-10 ft bgs	NE13	AK101	Gasoline Range Organics (C6-C10)	100	mg/Kg	2.5	2.2	VHB
		AK102	Diesel Range Organics (C10-C25)	7300	mg/Kg	110	48	
		AK103	Residual Range Organics	24	mg/Kg	110	4.5	VJ
		E160.3M	Total Solids	94.2	percent	0	0	
		SW6020	Chromium	14	mg/Kg	0.21	0.03	
			Lead	18.4	mg/Kg	0.05	0.03	
			Zinc	49	mg/Kg	0.5	0.1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.043	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.21	0.0075	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.017	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0065	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0045	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0088	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0049	
		SW8260B	Benzene	0.018	mg/Kg	0.012	0.012	VHB
			Ethylbenzene	1.1	mg/Kg	0.025	0.011	VHB
			o-Xylene	0.019	mg/Kg	0.025	0.0084	VJ
			Toluene	0.018	mg/Kg	0.025	0.011	VJ
			Xylene, Isomers m & p	0.95	mg/Kg	0.025	0.02	VHB
		SW8270 SIM	Acenaphthene	0.15	mg/Kg	0.0054	0.00023	
			Acenaphthylene	0.052	mg/Kg	0.0054	0.00017	
			Anthracene	0.0059	mg/Kg	0.0054	0.00021	
			Benzo(a)anthracene	0.00044	mg/Kg	0.0054	0.00014	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.0054	0.00015	
			Benzo(b)fluoranthene	0.00062	mg/Kg	0.0054	0.00015	VJ
			Benzo(g,h,i)perylene	0.00043	mg/Kg	0.0054	0.00011	VJ
			Benzo(k)fluoranthene	ND	mg/Kg	0.0054	0.00016	
			Chrysene	0.0013	mg/Kg	0.0054	0.00016	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0054	0.0002	
			Fluoranthene	0.0013	mg/Kg	0.0054	0.00019	VJ
			Fluorene	0.42	mg/Kg	0.0054	0.00019	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0054	0.00016	
			Naphthalene	10	mg/Kg	0.27	0.012	
			Phenanthrene	0.18	mg/Kg	0.0054	0.00016	
			Pyrene	0.0027	mg/Kg	0.0054	0.00012	VJ
		SW9060	Total Organic Carbon (TOC)	0.22	percent	0.05	0.02	
02NE88SB036 Depth 10-12 ft bgs	NE13	AK101	Gasoline Range Organics (C6-C10)	170	mg/Kg	3.3	2.6	VHB
		AK102	Diesel Range Organics (C10-C25)	4000	mg/Kg	13	5.7	VJ
		AK103	Residual Range Organics	220	mg/Kg	130	5.3	
		E160.3M	Total Solids	79.6	percent	0	0	
		SW6020	Chromium	16.7	mg/Kg	0.25	0.04	VJ
			Lead	21.1	mg/Kg	0.06	0.04	VJ
			Zinc	57.5	mg/Kg	0.6	0.1	VJ

Summary of Soil Results Site 88
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Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB036 Depth 10-12 ft bgs	NE13	SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.13	0.051	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.25	0.0088	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.13	0.021	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.13	0.0077	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.13	0.0053	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.13	0.011	
			PCB-1260 (Aroclor 1260)	0.033	mg/Kg	0.13	0.0058	VJ
		SW8260B	Benzene	0.062	mg/Kg	0.014	0.014	VJ
			Ethylbenzene	2.2	mg/Kg	0.03	0.013	VJ
			o-Xylene	1.3	mg/Kg	0.03	0.0099	VJ
			Toluene	0.041	mg/Kg	0.03	0.013	
			Xylene, Isomers m & p	4.4	mg/Kg	0.03	0.024	VJ
		SW8270 SIM	Acenaphthene	0.13	mg/Kg	0.0063	0.00027	VJ
			Acenaphthylene	ND	mg/Kg	0.0063	0.00021	
			Anthracene	0.0039	mg/Kg	0.0063	0.00024	VJ
			Benzo(a)anthracene	0.00021	mg/Kg	0.0063	0.00017	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.0063	0.00018	
			Benzo(b)fluoranthene	0.00056	mg/Kg	0.0063	0.00018	VJ
			Benzo(g,h,i)perylene	0.00031	mg/Kg	0.0063	0.00013	VJ
			Benzo(k)fluoranthene	ND	mg/Kg	0.0063	0.00019	
			Chrysene	0.0014	mg/Kg	0.0063	0.00019	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0063	0.00023	
			Fluoranthene	0.00097	mg/Kg	0.0063	0.00022	VJ
			Fluorene	0.38	mg/Kg	0.0063	0.00022	VJ
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0063	0.00019	
			Naphthalene	6.9	mg/Kg	0.32	0.014	VJ
			Phenanthrene	0.14	mg/Kg	0.0063	0.00019	VJ
			Pyrene	0.002	mg/Kg	0.0063	0.00014	VJ
		SW9060	Total Organic Carbon (TOC)	0.81	percent	0.05	0.02	VJ
02NE88SB236 (FD of SB036)	NE13	AK101	Gasoline Range Organics (C6-C10)	88	mg/Kg	2.5	2.2	VHB
		AK102	Diesel Range Organics (C10-C25)	13000	mg/Kg	110	50	
		AK103	Residual Range Organics	180	mg/Kg	110	4.7	
		E160.3M	Total Solids	91.3	percent	0	0	
		SW6020	Chromium	9.64	mg/Kg	0.22	0.03	
			Lead	12.6	mg/Kg	0.05	0.03	
			Zinc	31.9	mg/Kg	0.5	0.1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.044	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0077	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0067	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0047	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.009	
			PCB-1260 (Aroclor 1260)	0.059	mg/Kg	0.11	0.0051	VJ
		SW8260B	Benzene	0.023	mg/Kg	0.012	0.012	
			Ethylbenzene	0.66	mg/Kg	0.023	0.011	
			o-Xylene	0.58	mg/Kg	0.023	0.0086	
			Toluene	0.022	mg/Kg	0.023	0.011	VJ
			Xylene, Isomers m & p	1.5	mg/Kg	0.023	0.021	
		SW8270 SIM	Acenaphthene	0.25	mg/Kg	0.0055	0.00024	
			Acenaphthylene	ND	mg/Kg	0.0055	0.00018	
			Anthracene	0.013	mg/Kg	0.0055	0.00021	
			Benzo(a)anthracene	0.001	mg/Kg	0.0055	0.00015	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.0055	0.00016	
			Benzo(b)fluoranthene	0.0016	mg/Kg	0.0055	0.00016	VJ
			Benzo(g,h,i)perylene	0.00034	mg/Kg	0.0055	0.00011	VJ
			Benzo(k)fluoranthene	ND	mg/Kg	0.0055	0.00017	
			Chrysene	0.0021	mg/Kg	0.0055	0.00017	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0055	0.0002	
			Fluoranthene	0.0027	mg/Kg	0.0055	0.00019	VJ
			Fluorene	0.74	mg/Kg	0.0055	0.00019	
			Indeno(1,2,3-cd)pyrene	0.00019	mg/Kg	0.0055	0.00017	VJ
			Naphthalene	23	mg/Kg	0.55	0.024	
			Phenanthrene	0.44	mg/Kg	0.0055	0.00017	
			Pyrene	0.005	mg/Kg	0.0055	0.00013	VJ
		SW9060	Total Organic Carbon (TOC)	0.48	percent	0.05	0.02	

Summary of Soil Results Site 88
2002 Sampling Event

Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB037	NE22	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	4.1	2.3	
Depth 28-30 ft bgs		AK102	Diesel Range Organics (C10-C25)	ND	mg/Kg	11	5	
		AK103	Residual Range Organics	13	mg/Kg	110	4.7	VJ
		E160.3M	Total Solids	90.5	percent	0	0	
		SW6020	Chromium	7.26	mg/Kg	0.22	0.03	
			Lead	30.5	mg/Kg	0.06	0.03	
			Zinc	69.8	mg/Kg	0.6	0.1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.045	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0078	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0068	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0047	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0091	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0051	
		SW8260B	Benzene	ND	mg/Kg	0.019	0.012	
			Ethylbenzene	ND	mg/Kg	0.047	0.011	
			o-Xylene	ND	mg/Kg	0.047	0.0087	
			Toluene	ND	mg/Kg	0.047	0.011	
			Xylene, Isomers m & p	ND	mg/Kg	0.047	0.021	
		SW8270 SIM	Acenaphthene	ND	mg/Kg	0.0056	0.00024	
			Acenaphthylene	ND	mg/Kg	0.0056	0.00018	
			Anthracene	ND	mg/Kg	0.0056	0.00021	
			Benzo(a)anthracene	0.00017	mg/Kg	0.0056	0.00015	VJ
			Benzo(a)pyrene	ND	mg/Kg	0.0056	0.00016	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0056	0.00016	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0056	0.00012	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0056	0.00017	
			Chrysene	0.00036	mg/Kg	0.0056	0.00017	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0056	0.0002	
			Fluoranthene	0.00073	mg/Kg	0.0056	0.00019	VJ
			Fluorene	ND	mg/Kg	0.0056	0.00019	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0056	0.00017	
			Naphthalene	0.00092	mg/Kg	0.0056	0.00024	VJ
			Phenanthrene	0.0012	mg/Kg	0.0056	0.00017	VJ
			Pyrene	0.00044	mg/Kg	0.0056	0.00013	VJ
		SW9060	Total Organic Carbon (TOC)	0.1	percent	0.05	0.02	
02NE88SB237 (FD of SB037)	NE22	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	4	2.2	
		AK102	Diesel Range Organics (C10-C25)	ND	mg/Kg	11	5	
		AK103	Residual Range Organics	5.6	mg/Kg	110	4.7	VJ
		E160.3M	Total Solids	91.4	percent	0	0	
		SW6020	Chromium	8.11	mg/Kg	0.22	0.03	
			Lead	33.7	mg/Kg	0.05	0.03	
			Zinc	69.1	mg/Kg	0.5	0.1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.044	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0077	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0067	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0046	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.009	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0051	
		SW8260B	Benzene	ND	mg/Kg	0.017	0.012	
			Ethylbenzene	ND	mg/Kg	0.041	0.011	
			o-Xylene	ND	mg/Kg	0.041	0.0086	
			Toluene	ND	mg/Kg	0.041	0.011	
			Xylene, Isomers m & p	ND	mg/Kg	0.041	0.021	
		SW8270 SIM	Acenaphthene	ND	mg/Kg	0.0055	0.00023	
			Acenaphthylene	ND	mg/Kg	0.0055	0.00018	
			Anthracene	ND	mg/Kg	0.0055	0.00021	
			Benzo(a)anthracene	ND	mg/Kg	0.0055	0.00015	
			Benzo(a)pyrene	ND	mg/Kg	0.0055	0.00016	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0055	0.00016	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0055	0.00011	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0055	0.00017	
			Chrysene	0.00019	mg/Kg	0.0055	0.00017	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0055	0.0002	
			Fluoranthene	ND	mg/Kg	0.0055	0.00019	
			Fluorene	ND	mg/Kg	0.0055	0.00019	

Summary of Soil Results Site 88
2002 Sampling Event

Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB237 (FD of SB037)	NE22	SW8270 SIM	Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0055	0.00017	
			Naphthalene	0.00048	mg/Kg	0.0055	0.00023	VJ
			Phenanthrene	0.00056	mg/Kg	0.0055	0.00017	VJ
			Pyrene	ND	mg/Kg	0.0055	0.00013	
		SW9060	Total Organic Carbon (TOC)	0.09	percent	0.05	0.02	
02NE88SB038 Depth 30-32 ft bgs	NE22	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	4.3	2.2	
		AK102	Diesel Range Organics (C10-C25)	ND	mg/Kg	11	4.8	
		AK103	Residual Range Organics	5.4	mg/Kg	110	4.5	VJ
		E160.3M	Total Solids	94.4	percent	0	0	
		SW6020	Chromium	7.87	mg/Kg	0.21	0.03	
			Lead	41.3	mg/Kg	0.05	0.03	
			Zinc	90.3	mg/Kg	0.5	0.1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.043	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0075	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.017	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0065	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0045	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0087	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0049	
		SW8260B	Benzene	ND	mg/Kg	0.017	0.012	
			Ethylbenzene	ND	mg/Kg	0.042	0.011	
			o-Xylene	ND	mg/Kg	0.042	0.0084	
			Toluene	ND	mg/Kg	0.042	0.011	
			Xylene, Isomers m & p	ND	mg/Kg	0.042	0.02	
		SW8270 SIM	Acenaphthene	ND	mg/Kg	0.0053	0.00023	
			Acenaphthylene	ND	mg/Kg	0.0053	0.00017	
			Anthracene	ND	mg/Kg	0.0053	0.00021	
			Benzo(a)anthracene	ND	mg/Kg	0.0053	0.00014	
			Benzo(a)pyrene	ND	mg/Kg	0.0053	0.00015	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0053	0.00015	
			Benzo(g,h,i)perylene	0.00015	mg/Kg	0.0053	0.00011	VJ
			Benzo(k)fluoranthene	ND	mg/Kg	0.0053	0.00016	
			Chrysene	ND	mg/Kg	0.0053	0.00016	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0053	0.0002	
			Fluoranthene	ND	mg/Kg	0.0053	0.00019	
			Fluorene	ND	mg/Kg	0.0053	0.00019	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0053	0.00016	
			Naphthalene	ND	mg/Kg	0.0053	0.00023	
			Phenanthrene	0.00022	mg/Kg	0.0053	0.00016	VJ
			Pyrene	ND	mg/Kg	0.0053	0.00012	
		SW9060	Total Organic Carbon (TOC)	0.06	percent	0.05	0.02	
02NE88SB039 Depth 26-28 ft bgs	NE22	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	4	2.2	
		AK102	Diesel Range Organics (C10-C25)	ND	mg/Kg	11	5	
		AK103	Residual Range Organics	ND	mg/Kg	110	4.7	
		E160.3M	Total Solids	91.6	percent	0	0	
		SW6020	Chromium	9.09	mg/Kg	0.22	0.03	VJ
			Lead	31.4	mg/Kg	0.05	0.03	
			Zinc	62.9	mg/Kg	0.5	0.1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.044	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0077	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0067	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0046	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.009	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0051	
		SW8260B	Benzene	ND	mg/Kg	0.016	0.012	
			Ethylbenzene	ND	mg/Kg	0.038	0.011	
			o-Xylene	ND	mg/Kg	0.038	0.0086	
			Toluene	ND	mg/Kg	0.038	0.011	
			Xylene, Isomers m & p	ND	mg/Kg	0.038	0.021	
		SW8270 SIM	Acenaphthene	ND	mg/Kg	0.0055	0.00023	
			Acenaphthylene	ND	mg/Kg	0.0055	0.00018	
			Anthracene	ND	mg/Kg	0.0055	0.00021	
			Benzo(a)anthracene	ND	mg/Kg	0.0055	0.00015	
			Benzo(a)pyrene	ND	mg/Kg	0.0055	0.00016	
			Benzo(b)fluoranthene	0.00056	mg/Kg	0.0055	0.00016	VJ
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0055	0.00011	

Summary of Soil Results Site 88
2002 Sampling Event

Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB039 Depth 26-28 ft bgs	NE22	SW8270 SIM	Benzo(k)fluoranthene	ND	mg/Kg	0.0055	0.00017	
			Chrysene	0.00027	mg/Kg	0.0055	0.00017	VJ
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0055	0.0002	
			Fluoranthene	0.00024	mg/Kg	0.0055	0.00019	VJ
			Fluorene	ND	mg/Kg	0.0055	0.00019	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0055	0.00017	
			Naphthalene	0.00072	mg/Kg	0.0055	0.00023	VJ
			Phenanthrene	0.00053	mg/Kg	0.0055	0.00017	VJ
			Pyrene	0.00021	mg/Kg	0.0055	0.00013	VJ
		SW9060	Total Organic Carbon (TOC)	0.07	percent	0.05	0.02	
02NE88SB239 (FD of SB039)	NE22	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	4.2	2.3	
		AK102	Diesel Range Organics (C10-C25)	ND	mg/Kg	11	5.1	
		AK103	Residual Range Organics	5	mg/Kg	110	4.7	VJ
		E160.3M	Total Solids	90.2	percent	0	0	
		SW6020	Chromium	7.71	mg/Kg	0.22	0.03	
			Lead	31.2	mg/Kg	0.06	0.03	
			Zinc	57	mg/Kg	0.6	0.1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.045	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.22	0.0078	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.018	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0068	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0047	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0091	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0051	
		SW8260B	Benzene	ND	mg/Kg	0.019	0.012	
			Ethylbenzene	ND	mg/Kg	0.046	0.011	
			o-Xylene	ND	mg/Kg	0.046	0.0088	
			Toluene	ND	mg/Kg	0.046	0.011	
			Xylene, Isomers m & p	ND	mg/Kg	0.046	0.021	
		SW8270 SIM	Acenaphthene	ND	mg/Kg	0.0056	0.00024	
			Acenaphthylene	ND	mg/Kg	0.0056	0.00018	
			Anthracene	ND	mg/Kg	0.0056	0.00022	
			Benzo(a)anthracene	ND	mg/Kg	0.0056	0.00015	
			Benzo(a)pyrene	ND	mg/Kg	0.0056	0.00016	
			Benzo(b)fluoranthene	ND	mg/Kg	0.0056	0.00016	
			Benzo(g,h,i)perylene	ND	mg/Kg	0.0056	0.00012	
			Benzo(k)fluoranthene	ND	mg/Kg	0.0056	0.00017	
			Chrysene	ND	mg/Kg	0.0056	0.00017	
			Dibenzo(a,h)anthracene	ND	mg/Kg	0.0056	0.0002	
			Fluoranthene	ND	mg/Kg	0.0056	0.00019	
			Fluorene	ND	mg/Kg	0.0056	0.00019	
			Indeno(1,2,3-cd)pyrene	ND	mg/Kg	0.0056	0.00017	
			Naphthalene	0.00046	mg/Kg	0.0056	0.00024	VJ
			Phenanthrene	0.00048	mg/Kg	0.0056	0.00017	VJ
			Pyrene	0.00015	mg/Kg	0.0056	0.00013	VJ
		SW9060	Total Organic Carbon (TOC)	0.08	percent	0.05	0.02	
02NE88SB040 Depth 28-30 ft bgs	NE22	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	4.1	2.1	
		AK102	Diesel Range Organics (C10-C25)	ND	mg/Kg	11	4.8	
		AK103	Residual Range Organics	ND	mg/Kg	110	4.5	
		E160.3M	Total Solids	95.5	percent	0	0	
		SW6020	Chromium	7.88	mg/Kg	0.21	0.03	
			Lead	32.2	mg/Kg	0.05	0.03	
			Zinc	75.2	mg/Kg	0.5	0.1	
		SW8082	PCB-1016 (Aroclor 1016)	ND	mg/Kg	0.11	0.042	
			PCB-1221 (Aroclor 1221)	ND	mg/Kg	0.21	0.0074	
			PCB-1232 (Aroclor 1232)	ND	mg/Kg	0.11	0.017	
			PCB-1242 (Aroclor 1242)	ND	mg/Kg	0.11	0.0064	
			PCB-1248 (Aroclor 1248)	ND	mg/Kg	0.11	0.0044	
			PCB-1254 (Aroclor 1254)	ND	mg/Kg	0.11	0.0086	
			PCB-1260 (Aroclor 1260)	ND	mg/Kg	0.11	0.0049	
		SW8260B	Benzene	ND	mg/Kg	0.015	0.011	
			Ethylbenzene	ND	mg/Kg	0.037	0.011	
			o-Xylene	ND	mg/Kg	0.037	0.0083	
			Toluene	ND	mg/Kg	0.037	0.011	
			Xylene, Isomers m & p	ND	mg/Kg	0.037	0.02	
		SW8270 SIM	Acenaphthene	ND	mg/Kg	0.0053	0.00022	

Summary of Soil Results Site 88
2002 Sampling Event

Sample ID	Site location	Method	Analyte	Result	Units	MRL	MDL	Qualifier
02NE88SB040 Depth 28-30 ft bgs	NE22	SW8270 SIM	Acenaphthylene	ND	mg/Kg	0.0053	0.00017	
			Anthracene	0.0002	mg/Kg	0.0053	0.0002	VJ
			Benzo(a)anthracene	ND	mg/Kg	0.0053	0.00014	
			Benzo(a)pyrene	ND	mg/Kg	0.0053	0.00015	
			Benzo(b)fluoranthene	0.00035	mg/Kg	0.0053	0.00015	VJ
			Benzo(g,h,i)perylene	0.00033	mg/Kg	0.0053	0.00011	VJ
			Benzo(k)fluoranthene	ND	mg/Kg	0.0053	0.00016	
			Chrysene	0.0002	mg/Kg	0.0053	0.00016	VJ
			Dibenzo(a,h)anthracene	0.00032	mg/Kg	0.0053	0.00019	VJ
			Fluoranthene	0.0007	mg/Kg	0.0053	0.00018	VJ
			Fluorene	0.0002	mg/Kg	0.0053	0.00018	VJ
			Indeno(1,2,3-cd)pyrene	0.00032	mg/Kg	0.0053	0.00016	VJ
			Naphthalene	0.00031	mg/Kg	0.0053	0.00022	VJ
			Phenanthrene	0.001	mg/Kg	0.0053	0.00016	VJ
			Pyrene	0.00051	mg/Kg	0.0053	0.00012	VJ
		SW9060	Total Organic Carbon (TOC)	0.04	percent	0.05	0.02	VJ
02NE88TB001	Trip blank	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	5.1	2.1	
		SW8260B	Benzene	ND	mg/Kg	0.02	0.011	
			Ethylbenzene	ND	mg/Kg	0.05	0.0098	
			o-Xylene	ND	mg/Kg	0.05	0.0079	
			Toluene	ND	mg/Kg	0.05	0.0098	
			Xylene, Isomers m & p	ND	mg/Kg	0.05	0.019	
02NE88TB005	Trip blank	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	5.1	2.1	
		SW8260B	Benzene	ND	mg/Kg	0.02	0.011	
			Ethylbenzene	ND	mg/Kg	0.05	0.0098	
			o-Xylene	ND	mg/Kg	0.05	0.0079	
			Toluene	ND	mg/Kg	0.05	0.0098	
			Xylene, Isomers m & p	ND	mg/Kg	0.05	0.019	
02NE88TB007	Trip blank	AK101	Gasoline Range Organics (C6-C10)	ND	mg/Kg	5.1	2.1	
		SW8260B	Benzene	ND	mg/Kg	0.02	0.011	
			Ethylbenzene	ND	mg/Kg	0.05	0.0098	
			o-Xylene	ND	mg/Kg	0.05	0.0079	
			Toluene	ND	mg/Kg	0.05	0.0098	
			Xylene, Isomers m & p	ND	mg/Kg	0.05	0.019	

Key:

VB - analyte present in the blank and the sample
DRO - diesel range organics
GRO - gaoline range organics
mg/Kg - milligrams per kilogram
ND - Not detected above method reporting limit
VHB - Result is an estimate with a high bias.
VJ - estimated value
VQQ - method reporting limit approximated due to quality control or matrix effects

SUMMARY REPORT
Phase III Remedial Investigation
Northeast Cape, St. Lawrence Island, Alaska

VOLUME II: APPENDICES E THROUGH K

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APPENDIX E

Chemical Data Quality Review

MWH

CHEMICAL DATA QUALITY REVIEW

NE Cape HTRW - St. Lawrence Island

Soil and Water Sampling

Project #

01-065

Received: 1/29/02

Prepared for

Army Corps of Engineers - Alaska Division

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1.0 Introduction

This report summarizes the technical review of analytical results generated in support of the soil and groundwater sampling event at Northeast Cape, St. Lawrence Island, Alaska. The criteria applied for this review are consistent with analytical method protocols, in conjunction with the laboratory-established control limits. In cases where specific guidance was not available from either of these sources, the data have been evaluated using professional judgement consistent with industry standards. The review included evaluation of sample collection, holding time and summary information for blanks (to assess contamination), sample duplicates (to assess precision), laboratory control samples (to assess accuracy) and matrix spike and surrogate recoveries (to assess matrix effect). Instrument calibration review and raw data verification were not performed.

The report is arranged by method; within each method section is a sub-section addressing each data quality indicator. In situations where all applicable criteria were met, it will be stated. If criteria were not met, the non-compliance, qualifier and associated samples are listed. Appendices A and B list qualifier definitions and acronyms, respectively. Appendix C, the data summary table, displays all sample results, as well as qualifiers and descriptors that may apply. Appendix D includes a summary of all qualified data, by analysis type. All samples collected are identified in Table 1. Any discrepancies or deficiencies associated with sampling and analysis can be found in Table 2. Rejected data are identified in Table 3 (Appendix E). Tables 4 through 14 (Appendix E) list all qualified data by data quality indicator and analysis type.

The laboratory electronic data format (EDF) for this project was used to generate this report. In many cases abbreviations are used from the EDF; refer to the acronyms (Appendix B) for an explanation of abbreviations. When discrepancies between the hardcopy data and the EDF are found, the EDF has been modified to reflect values from the hardcopy, unless the hardcopy is found to be in error. Results used to generate this report are deemed to be accurate.

I certify that all data validation criteria described above were assessed, and any qualifications made to the data were in accordance with the cited reference documents.

Authorized Signature (209) 576-2621

2.0 Executive Summary

Seventy-five soil/sediment samples, six methanol trip blanks, twenty-five aqueous samples and fifteen aqueous trip blanks were collected by Montgomery Watson Harza in Anchorage, Alaska from July 24, 2001 to September 24, 2001. Samples were submitted to Analytical Resources, Inc. (ARI) in Seattle, Washington (Primary Laboratory) and Sound Analytical Services, Inc. (SAS) in Tacoma, Washington (Referee Laboratory) within one to five days of collection. Samples were analyzed for BTEX, GRO, DRO, RRO, pesticides, PCBs, PAH, semivolatiles, volaltile organics, metals and TOC.

Data packages generated by Analytical Resources Incorporation did not display method numbers for preparation and cleanup, prep and analysis batch identification, accuracy and precision limits for most methods and dilution factors for metals, volatiles and some TOC. The laboratory was contacted and QC limits were submitted for the associated data. Most information missing on the hardcopy was present in the electronic; however, values could not be checked against the hardcopy.

Matrix problems were observed in the PAH analyses, especially in samples collected from site 28. Samples were extracted based on initial screens at either low or medium levels. Reporting limits are high for many compounds, and the reporting limits vary significantly from sample to sample. In some cases, samples were extracted at the medium level due to low internal standard response; however, target compounds were not detected. Internal standard response was not reported in the data packages; therefore, impact could not be evaluated. The laboratory flagged many compounds as "M" due to poor spectral matches caused by matrix effect.

BTEX target compounds were detected in some of the trip blanks associated with the samples for this analysis. Concentrations detected in the blanks were higher than concentrations detected in the associated samples which impacted approximately (16%) of the data.

Many of the samples were re-extracted for DRO and RRO at ARI due to extraction deficiencies, and most re-extracts missed holding time. High concentrations of target compounds were detected requiring dilution for quantitation, in many cases surrogates were diluted out. Matrix effect was observed; many of the matrix spikes exhibited poor accuracy and precision. In addition, poor precision was exhibited in some of the sample duplicates and QA triplicate sets indicating a heterogenous matrix.

Some samples missed holding time for pesticides/PCBs analysis. Some samples were qualified due to low surrogate recoveries. High levels of aroclor 1260 were detected in some samples from site 31. In some cases concentrations detected, saturated the detector used for analysis, in these cases aroclor 1260 is only reported from the appropriate dilution and will not be observed in the original analysis. Throughout the project only aroclor 1242 was used as the matrix spike and LCS spiking compound. It would have been preferable to spike with aroclor 1260 or 1254 since these were the only target compounds detected in the project.

3.0 BTEX

The following number of samples were prepared and analyzed by the listed methods:

Laboratory: ARI

# of Samples	Matrix	Prep Method	Analysis Method	Reporting Units
30	SX	METHOD	8260SIM	µg/Kg
7	WX	METHOD	SW8260	µg/L
6	WX	METHOD	AK101	µg/L

Laboratory: SAS

# of Samples	Matrix	Prep Method	Analysis Method	Reporting Units
4	SX	SW5030B	SW8021B	mg/Kg
4	WX	SW5030B	SW8021B	mg/L
2	WX	SW5030	SW8260B	µg/L

Samples analyzed by this method are identified in Table 1.

3.1 Holding Time

All samples were analyzed within the required technical holding time.

3.2 Surrogates

All surrogate recoveries were within the required limit except the following:

Laboratory: SAS

SDG: 100492

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
100492-04	01NE21SS369	SX	1	trifluorotoluene	25.5	70 - 130	J/UJ	L	b
				bromofluorobenzene	20.8	70 - 130	J/UJ	L	b
100492-07	01NE24SD314	SX	1	trifluorotoluene	64.3	70 - 130	J/UJ	L	b
				bromofluorobenzene	56.3	70 - 130	J/UJ	L	b
100492-11	01NE31SS321	SX	1	trifluorotoluene	69.5	70 - 130	J/UJ	L	b
				bromofluorobenzene	57.4	70 - 130	J/UJ	L	b

[1] Laboratory-established limits

[2] According to the Functional Guidelines for Organic Data Review, if the surrogate recovery is > UCL, flag detected results J; if the surrogate recovery is < LCL, flag detected results J and non-detects UJ; if the surrogate recovery is less than 10%, flag detected results J and non-detects UR

3.3 Blanks

Method blanks were analyzed at the minimum required frequency. All target compounds were reported as nondetected in all cases.

3.3 Blanks (cont.)

Six methanol trip blanks and six water trip blanks were collected for analysis by this method. All target compounds were reported as nondetected in all cases except the following:

Laboratory : **ARI**
Date Collected: 8/18/01

Field Blank ID	Analyte	Result	Units
01NE00TB101			
Trip Blank	toluene	46	µg/Kg
	ethylbenzene	8.4	µg/Kg
	m,p-xylene	31	µg/Kg
	o-xylene	10	µg/Kg

Affected samples:			Qualified Result	Bias	RC	
DN07K	01NE06SD116	ethylbenzene	12 B	H	k	µg/Kg
DN07L	01NE06SD117	ethylbenzene	0.88 B	H	k	µg/Kg
DN07K	01NE06SD116	m,p-xylene	44 B	H	k	µg/Kg
DN07L	01NE06SD117	m,p-xylene	3.3 B	H	k	µg/Kg
DN07K	01NE06SD116	o-xylene	14 B	H	k	µg/Kg
DN07L	01NE06SD117	o-xylene	1 B	H	k	µg/Kg
DN07K	01NE06SD116	toluene	78 B	H	k	µg/Kg
DN07L	01NE06SD117	toluene	4.7 B	H	k	µg/Kg

Date Collected: 8/21/01

Field Blank ID	Analyte	Result	Units
01NE00TB104			
Trip Blank	toluene	45	µg/Kg
	ethylbenzene	8	µg/Kg
	m,p-xylene	30	µg/Kg
	o-xylene	9.8	µg/Kg

Affected samples:			Qualified Result	Bias	RC	
DN40K	01NE29SD129	m,p-xylene	3.2 B	H	k	µg/Kg
DN40N	01NE29SD126	toluene	7.4 B	H	k	µg/Kg
DN40M	01NE29SD127	toluene	9.7 B	H	k	µg/Kg
DN40J	01NE29SD128	toluene	6.4 B	H	k	µg/Kg
DN40K	01NE29SD129	toluene	4.7 B	H	k	µg/Kg

Date Collected: 8/24/01

Field Blank ID	Analyte	Result	Units
01NE00TB111			
Trip Blank	toluene	39	µg/Kg
	ethylbenzene	5.4	µg/Kg
	m,p-xylene	20	µg/Kg
	o-xylene	6.2	µg/Kg

Affected samples:			Qualified Result	Bias	RC	
DN68K	01NE09SS171	toluene	9 B	H	k	µg/Kg
DN68A	01NE21SS169	toluene	39 B	H	k	µg/Kg

Date Collected: 8/24/01

Field Blank ID	Analyte	Result	Units
01NE00TB114			
Trip Blank	toluene	44	µg/Kg
	ethylbenzene	7.1	µg/Kg
	m,p-xylene	28	µg/Kg
	o-xylene	8.3	µg/Kg

Affected samples:			Qualified Result	Bias	RC	
DN69P	01NE31SS123	m,p-xylene	17 B	H	k	µg/Kg
DN69R	01NE31SS221	m,p-xylene	9 B	H	k	µg/Kg
DN69P	01NE31SS123	o-xylene	5.3 B	H	k	µg/Kg
DN69N	01NE31SS121	toluene	12 B	H	k	µg/Kg
DN69P	01NE31SS123	toluene	24 B	H	k	µg/Kg
DN69Q	01NE31SS124	toluene	7.3 B	H	k	µg/Kg
DN69R	01NE31SS221	toluene	14 B	H	k	µg/Kg

Date Collected: 8/24/01

Field Blank ID		Analyte	Result			Units
01NE00TB109						
Trip Blank		toluene	440			µg/Kg
		ethylbenzene	87			µg/Kg
		m,p-xylene	330			µg/Kg
		o-xylene	100			µg/Kg
Affected samples:			**Qualified Result**	**Bias**	**RC**	
DN70F	01NE21SB169	ethylbenzene	6.7 B	H	k	µg/Kg
DN70K	01NE24SD115	ethylbenzene	8.8 B	H	k	µg/Kg
DN70F	01NE21SB169	m,p-xylene	21 B	H	k	µg/Kg
DN70G	01NE21SB171	m,p-xylene	23 B	H	k	µg/Kg
DN70I	01NE21SD114	m,p-xylene	10 B	H	k	µg/Kg
DN70B	01NE21SS170	m,p-xylene	7.4 B	H	k	µg/Kg
DN70H	01NE21SS172	m,p-xylene	96 B	H	k	µg/Kg
DN70J	01NE21SS173	m,p-xylene	32 B	H	k	µg/Kg
DN70K	01NE24SD115	m,p-xylene	30 B	H	k	µg/Kg
DN70F	01NE21SB169	o-xylene	6.3 B	H	k	µg/Kg
DN70K	01NE24SD115	o-xylene	9.2 B	H	k	µg/Kg
DN70F	01NE21SB169	toluene	24 B	H	k	µg/Kg
DN70A	01NE21SB170	toluene	7.2 B	H	k	µg/Kg
DN70G	01NE21SB171	toluene	41 B	H	k	µg/Kg
DN70D	01NE21SD113	toluene	55 B	H	k	µg/Kg
DN70I	01NE21SD114	toluene	19 B	H	k	µg/Kg
DN70B	01NE21SS170	toluene	11 B	H	k	µg/Kg
DN70H	01NE21SS172	toluene	140 B	H	k	µg/Kg
DN70J	01NE21SS173	toluene	73 B	H	k	µg/Kg
DN70C	01NE24SD114	toluene	3.2 B	H	k	µg/Kg
DN70K	01NE24SD115	toluene	38 B	H	k	µg/Kg
DN70E	01NE24SD214	toluene	17 B	H	k	µg/Kg

[1] According to the National Functional Guidelines for Organic Data Review, any target compound detected in a field blank that was also detected in an associated sample is qualified if the sample result is less than 10x the blank concentration for common laboratory contaminants, or 5x for all other compounds. Flagging for this project is modified to "B" at the amount found in the sample

3.4 Matrix Spike/Matrix Spike Duplicates

MS/MSDs were analyzed at the required frequency. All recoveries and RPDs were within the required limits.

3.5 Laboratory Control Samples

Laboratory control samples were analyzed at the required frequency. All recoveries and RPDs were within the required limits.

3.6 Quantitation Limits

The practical quantitation limits (PQLs) achieved by the laboratories were acceptable relative to the estimated quantitation limits (EQL) suggested by these methods for aqueous and soil matrix samples. Project specific reporting limits for water matrix were met by both laboratories.

3.7 QA / QC Triplicates

Five sets of QA / QC triplicate samples were collected for analysis by this method. All results were in agreement except for the following:

Matrix: SX

Lab ID	Field ID		Analyte	Result	Units	Q	Bias	RC
DN70C	01NE24SD114	Primary Sample	toluene	3.2	µg/Kg	B	H	k
DN70E	01NE24SD214	QC Dup of 01NE24SD114	toluene	17	µg/Kg	B	H	k
100492-07	01NE24SD314	QA Dup of 01NE24SD114	toluene	< 0.015	mg/Kg	UJ	L	b

No data were qualified on the basis of field duplicate precision.

3.8 Additional Comments

Target compounds were detected in some of the trip blanks at concentrations greater than levels detected in associated samples (see section 3.3). In addition, samples 01NE35GW301 and 01NE35TB302 were received by the laboratory at an elevated temperature and therefore are qualified as estimated. 3 of 3 voa vials of sample 01NE00TB107 had bubbles and is qualified as estimated. Results of samples listed above should be considered minimum values.

3.9 Overall Assessment

Minor data quality deficiencies were found, resulting in a significant amount of qualified data. No data were rejected. Most data were qualified due to field blank contamination. Tables 4 through 14 list all qualified sample results, by data quality indicator and analysis type. Results that were qualified as estimated or nondetected are useable for limited purposes. All other data generated by this method should be considered useable as reported.

4.0 Gasoline Range Organics

The following number of samples were prepared and analyzed by the listed methods:

Laboratory: ARI

# of Samples	Matrix	Prep Method	Analysis Method	Reporting Units
42	WX	METHOD	AK101	mg/L
31	SX	METHOD	AK101	mg/Kg

Laboratory: SAS

# of Samples	Matrix	Prep Method	Analysis Method	Reporting Units
8	WX	METHOD	AK101	mg/L
4	SX	METHOD	AK101	mg/Kg

Samples analyzed by this method are identified in Table 1.

4.1 Holding Time

All samples were analyzed within the required technical holding time except the following:

Laboratory: ARI

SDG:	DN73					Holding Time (Days)	RTHT[1] (Days)			
Lab ID	Field ID	Matrix	Collected	Prepared	Analyzed	Analysis	Analysis	Q[2]	Bias	RC
DN73M	01NE21SW114	WX	8/21/01	9/5/01	9/5/01	15	14	J/UJ	L	e

[1] Required technical holding time established for the method

[2] According to the Functional Guidelines for Organic Data Review, if analysis holding time is exceeded, flag detected and nondetected results as estimated

4.2 Surrogates

All surrogate recoveries were within the required limits except the following:

Laboratory: **SAS**

SDG: **100492**

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
100492-04	01NE21SS369	SX	1	trifluorotoluene	23.8	50 - 150	J/UJ	L	b
				bromofluorobenzene	24	50 - 150	J/UJ	L	b

[1] Laboratory-established limits

[2] According to the Functional Guidelines for Organic Data Review, if the surrogate recovery is > UCL, flag detected results J; if the surrogate recovery is < LCL, flag detected results J and non-detects UJ; if the surrogate recovery is less than 10%, flag detected results J and non-detects UR

4.3 Blanks

Method blanks were analyzed at the minimum required frequency. Gasoline range organics were reported as non-detected in all cases except the following:

Laboratory: SAS
Project ID: 100492

MB Batch ID: GB2813
Matrix: WQ

Analyte			Result	PQL	Units	Q [1]	Bias	RC
gasoline range organics			0.03	0.05	mg/L			
Affected Samples:	**Sample ID**	**Field ID**						
	100492-02	01NE21SW313	0.04	0.05	mg/L	B	H	a
	100492-03	01NE00TB112	0.03	0.05	mg/L	B	H	a

[1] According to the National Functional Guidelines for Organic Data Review, any compound detected in a blank that was also detected in an associated sample is qualified if the sample result is less than 10x the blank concentration for common laboratory contaminants, or 5x for all other analytes. Flagging for this project is modified to "B" at the amount found in the sample.

4.3 Blanks (cont.)

Six methanol trip blanks and thirteen water trip blanks were collected for analysis by this method. Gasoline range organics were reported as nondetected in all cases except the following:

Laboratory : **SAS**
Date Collected: 8/24/01

Field Blank ID	Analyte	Result	Units
01NE00TB112			
	gasoline range organics	0.029	mg/L

No sample results were affected by the above blank result

[1] According to the National Functional Guidelines for Organic Data Review, any target compound detected in a field blank that was also detected in an associated sample is qualified if the sample result is less than 10x the blank concentration for common laboratory contaminants, or 5x for all other compounds. Flagging for this project is modified to "B" at the amount found in the sample

4.4 Matrix Spike/Matrix Spike Duplicates

MS/MSDs were analyzed at the required frequency. All recoveries and RPDs were within the required limits.

4.5 Laboratory Control Samples

Laboratory control samples were analyzed at the required frequency. All recoveries and RPDs were within the required limits.

4.6 Quantitation Limits

The practical quantitation limits (PQLs) achieved by the laboratories were acceptable relative to the estimated quantitation limits (EQL) suggested by this method for aqueous and soil matrix samples. Project specific reporting limits for water were met by both laboratories.

4.7 QA / QC Triplicates

Ten sets of QA / QC triplicate samples were collected for analysis by this method. A disagreement of greater than five times (when one result is nondetected) was found for the following primary, QC and QA triplicate set:

Matrix: WX

Lab ID	Field ID		Analyte		Result	Units	Q	Bias	RC
DN73J	01NE21SW113	Primary Sample	gasoline range organics	<	0.25	mg/L	U		
DN73N	01NE21SW213	QC Dup of 01NE21SW113	gasoline range organics	<	0.25	mg/L	U		
100492-02	01NE21SW313	QA Dup of 01NESW113	gasoline range organics		0.04	mg/L	B	H	a

No data were qualified on the basis of field duplicate precision.

4.8 Additional Comments

Due to elevated temperature, gasoline range organics results for 01NE35GW301 and 01NE35TB302 were qualified as estimated; results should be considered minimum values.

4.9 Overall Assessment

Minor data quality deficiencies were found, resulting in an insignificant amount of qualified data. No data were rejected. Most qualifications made were due to method blank contamination and elevated temperature. Tables 4 through 14 list all qualified sample results, by data quality indicator and analysis type. Results that were qualified as estimated or nondetected are useable for limited purposes. All other data generated by this method should be considered useable as reported.

5.0 Diesel / Residual Range Organics

The following number of samples were prepared and analyzed by the listed methods:

Laboratory: ARI

# of Samples	Matrix	Prep Method	Analysis Method	Reporting Units
158	SX	SW3545	AK102/103	mg/Kg
49	WX	SW3510C	AK102/103	mg/L
11	SX	SW3550B	AK102/103	mg/Kg

Laboratory: SAS

# of Samples	Matrix	Prep Method	Analysis Method	Reporting Units
17	SX	METHOD	AK103	mg/Kg
17	SX	METHOD	AK102	mg/Kg
6	WX	METHOD	AK103	mg/L
6	WX	METHOD	AK102	mg/L

Samples analyzed by this method are identified in Table 1.

5.1 Holding Time

All samples were prepared and analyzed within the required technical holding time except the following:

Laboratory: ARI

SDG: DK21

Lab ID	Field ID	Matrix	Collected	Prepared*	Analyzed	Holding Time (Days) Prep	Holding Time (Days) Anal	RTHT[1] (Days) Prep	RTHT[1] (Days) Anal	Q[2]	Bias	RC
DK21ARE	01NE35GW102	WX	7/24/01	8/2/01	8/4/01	9	2	7	40	J/UJ	L	e

***Date received by laboratory:** 7/25/01

SDG: DK48

Lab ID	Field ID	Matrix	Collected	Prepared*	Analyzed	Holding Time (Days) Prep	Holding Time (Days) Anal	RTHT[1] (Days) Prep	RTHT[1] (Days) Anal	Q[2]	Bias	RC
DK48ARE	01NE35GW101	WX	7/25/01	8/2/01	8/4/01	8	2	7	40	J/UJ	L	e
DK48BRE	01NE35GW103	WX	7/25/01	8/2/01	8/4/01	8	2	7	40	J/UJ	L	e
DK48DRE	01NE35GW201	WX	7/25/01	8/2/01	8/4/01	8	2	7	40	J/UJ	L	e

***Date received by laboratory:** 7/27/01

SDG: DN40

Lab ID	Field ID	Matrix	Collected	Prepared*	Analyzed	Holding Time (Days) Prep	Holding Time (Days) Anal	RTHT[1] (Days) Prep	RTHT[1] (Days) Anal	Q[2]	Bias	RC
DN40G-RE	01NE29SD120	SX	8/21/01	9/10/01	9/19/01	20	9	14	40	J/UJ	L	e
DN40H-RE	01NE29SD121	SX	8/21/01	9/10/01	9/19/01	20	9	14	40	J/UJ	L	e
DN40I-RE	01NE29SD122	SX	8/21/01	9/10/01	9/19/01	20	9	14	40	J/UJ	L	e
DN40A-RE	01NE29SD123	SX	8/21/01	9/21/01	9/24/01	31	3	14	40	J/UJ	L	e
DN40B-RE	01NE29SD124	SX	8/21/01	9/10/01	9/18/01	20	8	14	40	J/UJ	L	e
DN40C-RE	01NE29SD125	SX	8/21/01	9/10/01	9/18/01	20	8	14	40	J/UJ	L	e
DN40N-RE	01NE29SD126	SX	8/21/01	9/10/01	9/19/01	20	9	14	40	J/UJ	L	e
DN40M-RE	01NE29SD127	SX	8/21/01	9/10/01	9/19/01	20	9	14	40	J/UJ	L	e
DN40E-RE	01NE29SD128	SX	8/21/01	9/10/01	9/18/01	20	8	14	40	J/UJ	L	e
DN40F-RE	01NE29SD129	SX	8/21/01	9/10/01	9/18/01	20	8	14	40	J/UJ	L	e
DN40D-RE	01NE29SD225	SX	8/21/01	9/10/01	9/18/01	20	8	14	40	J/UJ	L	e

***Date received by laboratory:** 8/24/01

SDG:	DN53					Holding Time (Days)		RTHT[1] (Days)				
Lab ID	**Field ID**	**Matrix**	**Collected**	**Prepared***	**Analyzed**	**Prep**	**Anal**	**Prep**	**Anal**	**Q[2]**	**Bias**	**RC**
DN53B-RE	01NE09SW107	WX	8/23/01	9/5/01	9/6/01	13	1	7	40	J/UJ	L	e
DN53G-RE	01NE09SW108	WX	8/23/01	9/5/01	9/6/01	13	1	7	40	J/UJ	L	e
DN53A-RE	01NE09SW109	WX	8/23/01	9/5/01	9/6/01	13	1	7	40	J/UJ	L	e
DN53F-RE	01NE09SW207	WX	8/23/01	9/5/01	9/6/01	13	1	7	40	J/UJ	L	e

***Date received by laboratory:** 8/25/01

SDG:	DN68					Holding Time (Days)		RTHT[1] (Days)				
Lab ID	**Field ID**	**Matrix**	**Collected**	**Prepared***	**Analyzed**	**Prep**	**Anal**	**Prep**	**Anal**	**Q[2]**	**Bias**	**RC**
DN68F-RE	01NE09SD114	SX	8/24/01	9/12/01	9/13/01	19	1	14	40	J/UJ	L	e

***Date received by laboratory:** 8/28/01

SDG:	DN71					Holding Time (Days)		RTHT[1] (Days)				
Lab ID	**Field ID**	**Matrix**	**Collected**	**Prepared***	**Analyzed**	**Prep**	**Anal**	**Prep**	**Anal**	**Q[2]**	**Bias**	**RC**
DN71D-RE	01NE09MW103	WX	8/26/01	9/12/01	9/15/01	17	3	7	40	J/UJ	L	e

***Date received by laboratory:** 8/28/01

SDG:	DN73					Holding Time (Days)		RTHT[1] (Days)				
Lab ID	**Field ID**	**Matrix**	**Collected**	**Prepared***	**Analyzed**	**Prep**	**Anal**	**Prep**	**Anal**	**Q[2]**	**Bias**	**RC**
DN73G-RE	01NE04WP102	WX	8/25/01	9/5/01	9/7/01	11	2	7	40	J/UJ	L	e
DN73H-RE	01NE04WP103	WX	8/25/01	9/5/01	9/10/01	11	5	7	40	J/UJ	L	e
DN73F-RE	01NE04WP104	WX	8/25/01	9/5/01	9/7/01	11	2	7	40	J/UJ	L	e
DN73C-RE	01NE06WP103	WX	8/25/01	9/5/01	9/7/01	11	2	7	40	J/UJ	L	e
DN73M-RE	01NE21SW114	WX	8/21/01	9/5/01	9/7/01	15	2	7	40	J/UJ	L	e
DN73M	01NE21SW114	WX	8/21/01	8/29/01	8/31/01	8	2	7	40	J/UJ	L	e
DN73A-RE	01NE30WP101	WX	8/25/01	9/5/01	9/7/01	11	2	7	40	J/UJ	L	e
DN73D-RE	01NE31SW101	WX	8/24/01	9/5/01	9/7/01	12	2	7	40	J/UJ	L	e
DN73E-RE	01NE31SW102	WX	8/24/01	9/5/01	9/7/01	12	2	7	40	J/UJ	L	e

***Date received by laboratory:** 8/28/01

[1] Required technical holding time established for the method

[2] According to the Functional Guidelines for Organic Data Review, if sample preparation or analysis holding time is exceeded, flag detected and nondetected results as estimated

5.2 Surrogates

All surrogate recoveries were within the required limits except the following:

Laboratory: **ARI**

SDG: **DN69**

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN69B	01NE21SB170	SX	20	o-terphenyl	0	10 - 117	none*	NA	NA
DN69C	01NE21SS170	SX	20	o-terphenyl	0	10 - 117	none*	NA	NA
DN69G	01NE21SS173	SX	20	o-terphenyl	0	10 - 117	none*	NA	NA
DN69H	01NE21SD113	SX	20	o-terphenyl	0	10 - 117	none*	NA	NA
DN69O	01NE31SS122	SX	100	o-terphenyl	0	10 - 117	none*	NA	NA

5.2 Surrogates (cont.)

Laboratory: ARI

SDG: DN04

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits[1]	Q[2]	Bias	RC
DN04C	01NE28SD119	SX	100	o-terphenyl	0	50 - 150	none*	NA	NA
DN04D	01NE28SD120	SX	1	o-terphenyl	36	50 - 150	J/UJ	L	b
DN04D-RE	01NE28SD120	SX	1	o-terphenyl	45	50 - 150	J/UJ	L	b
DN04F	01NE28SD122	SX	1	o-terphenyl	34	50 - 150	J/UJ	L	b
DN04F-RE	01NE28SD122	SX	1	o-terphenyl	36	50 - 150	J/UJ	L	b
DN04G	01NE28SD123	SX	1	o-terphenyl	33	50 - 150	J/UJ	L	b
DN04G-RE	01NE28SD123	SX	1	o-terphenyl	42	50 - 150	J/UJ	L	b
DN04L	01NE28SD128	SX	20	o-terphenyl	0	50 - 150	none*	NA	NA
DN04O	01NE28SD130	SX	20	o-terphenyl	0	50 - 150	none*	NA	NA
DN04P	01NE28SD131	SX	200	o-terphenyl	0	50 - 150	none*	NA	NA
DN04Q	01NE28SD132	SX	200	o-terphenyl	0	50 - 150	none*	NA	NA

SDG: DN05

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits[1]	Q[2]	Bias	RC
DN05A	01NE28SD153	SX	200	o-terphenyl	0	50 - 150	none*	NA	NA
DN05B	01NE28SD154	SX	100	o-terphenyl	0	50 - 150	none*	NA	NA
DN05C	01NE28SD155	SX	500	o-terphenyl	0	50 - 150	none*	NA	NA
DN05D	01NE28SD156	SX	500	o-terphenyl	0	50 - 150	none*	NA	NA
DN05E	01NE28SD157	SX	200	o-terphenyl	0	50 - 150	none*	NA	NA
DN05F	01NE28SD158	SX	40	o-terphenyl	0	50 - 150	none*	NA	NA
DN05G	01NE28SD253	SX	200	o-terphenyl	0	50 - 150	none*	NA	NA
DN05H	01NE28SD257	SX	200	o-terphenyl	0	50 - 150	none*	NA	NA

SDG: DN06

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits[1]	Q[2]	Bias	RC
DN06B	01NE28SD136	SX	200	o-terphenyl	0	50 - 150	none*	NA	NA
DN06F	01NE28SD140	SX	40	o-terphenyl	0	50 - 150	none*	NA	NA
DN06J	01NE28SD143	SX	100	o-terphenyl	0	50 - 150	none*	NA	NA
DN06K	01NE28SD144	SX	40	o-terphenyl	0	50 - 150	none*	NA	NA
DN06L	01NE28SD145	SX	20	o-terphenyl	0	50 - 150	none*	NA	NA
DN06M	01NE28SD146	SX	100	o-terphenyl	0	50 - 150	none*	NA	NA
DN06N	01NE28SD147	SX	100	o-terphenyl	0	50 - 150	none*	NA	NA
DN06O	01NE28SD148	SX	40	o-terphenyl	0	50 - 150	none*	NA	NA
DN06P	01NE28SD149	SX	100	o-terphenyl	0	50 - 150	none*	NA	NA
DN06Q	01NE28SD150	SX	40	o-terphenyl	0	50 - 150	none*	NA	NA
DN06R	01NE28SD151	SX	100	o-terphenyl	0	50 - 150	none*	NA	NA

Laboratory: ARI

SDG: DN06

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN06S	01NE28SD251	SX	100	o-terphenyl	0	50 - 150	none*	NA	NA
DN06T	01NE28SD152	SX	40	o-terphenyl	0	50 - 150	none*	NA	NA

SDG: DN07

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN07A	01NE06TP101	SX	10	o-terphenyl	0	50 - 150	none*	NA	NA
DN07C	01NE06TP102	SX	50	o-terphenyl	0	50 - 150	none*	NA	NA
DN07P	01NE07SS127	SX	20	o-terphenyl	0	50 - 150	none*	NA	NA

SDG: DN38

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN38J	01NE28SD167	SX	200	o-terphenyl	0	50 - 150	none*	NA	NA
DN38K	01NE28SD168	SX	100	o-terphenyl	0	50 - 150	none*	NA	NA
DN38L	01NE28SD169	SX	500	o-terphenyl	0	50 - 150	none*	NA	NA
DN38M	01NE28SD170	SX	500	o-terphenyl	0	50 - 150	none*	NA	NA

SDG: DN39

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN39A	01NE28SD159	SX	1000	o-terphenyl	0	50 - 150	none*	NA	NA
DN39B-DL	01NE28SD160	SX	1000	o-terphenyl	0	50 - 150	none*	NA	NA
DN39C	01NE28SD161	SX	20	o-terphenyl	0	50 - 150	none*	NA	NA
DN39C-DL	01NE28SD161	SX	1000	o-terphenyl	0	50 - 150	none*	NA	NA
DN39D	01NE28SD163	SX	20	o-terphenyl	0	50 - 150	none*	NA	NA
DN39D-DL	01NE28SD163	SX	1000	o-terphenyl	0	50 - 150	none*	NA	NA
DN39E-DL	01NE28SD164	SX	1000	o-terphenyl	0	50 - 150	none*	NA	NA
DN39F	01NE28SD263	SX	20	o-terphenyl	0	50 - 150	none*	NA	NA
DN39F-DL	01NE28SD263	SX	1000	o-terphenyl	0	50 - 150	none*	NA	NA
DN39H	01NE28SD172	SX	1	o-terphenyl	13	50 - 150	J/UJ	L	b
DN39H-DL	01NE28SD172	SX	10	o-terphenyl	0	50 - 150	none*	NA	NA
DN39K	01NE28SD175	SX	1	o-terphenyl	45	50 - 150	J/UJ	L	b
DN39L	01NE28SD176	SX	1	o-terphenyl	31	50 - 150	J/UJ	L	b
DN39M	01NE28SD271	SX	1	o-terphenyl	41	50 - 150	J/UJ	L	b
DN39O	01NE28SD177	SX	50	o-terphenyl	0	50 - 150	none*	NA	NA
DN39P	01NE28SD178	SX	20	o-terphenyl	0	50 - 150	none*	NA	NA
DN39P-DL	01NE28SD178	SX	200	o-terphenyl	0	50 - 150	none*	NA	NA
DN39Q	01NE28SD179	SX	100	o-terphenyl	0	50 - 150	none*	NA	NA
DN39R	01NE28SD180	SX	100	o-terphenyl	0	50 - 150	none*	NA	NA
DN39S	01NE28SD181	SX	20	o-terphenyl	0	50 - 150	none*	NA	NA

Laboratory: **ARI**

SDG: **DN39**

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN39T	01NE28SD182	SX	20	o-terphenyl	0	50 - 150	none*	NA	NA

SDG: **DN55**

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN55C	01NE33SS103	SX	20	o-terphenyl	0	50 - 150	none*	NA	NA

SDG: **DN68**

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN68F	01NE09SD114	SX	1	o-terphenyl	42	50 - 150	J/UJ	L	b
DN68F-RE	01NE09SD114	SX	1	o-terphenyl	40	50 - 150	J/UJ	L	b
DN68S	01NE32SS101	SX	200	o-terphenyl	0	50 - 150	none*	NA	NA
DN68T	01NE32SS102	SX	200	o-terphenyl	0	50 - 150	none*	NA	NA
DN68U	01NE32SS103	SX	20	o-terphenyl	0	50 - 150	none*	NA	NA
DN68V	01NE32SS104	SX	20	o-terphenyl	0	50 - 150	none*	NA	NA

SDG: **DN71**

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN71D	01NE09MW103	WX	1	o-terphenyl	24	50 - 150	J/UJ	L	b
DN71D-RE	01NE09MW103	WX	1	o-terphenyl	19	50 - 150	J/UJ	L	b

SDG: **DN78**

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN78A	01NE31SS105	SX	50	o-terphenyl	0	50 - 150	none*	NA	NA
DN78B	01NE31SS205	SX	50	o-terphenyl	0	50 - 150	none*	NA	NA
DN78F	01NE31SS109	SX	5	o-terphenyl	40	50 - 150	J/UJ	L	b
DN78H	01NE31SS111	SX	1	o-terphenyl	40	50 - 150	J/UJ	L	b
DN78I	01NE31SS112	SX	1	o-terphenyl	36	50 - 150	J/UJ	L	b
DN78K	01NE31SS114	SX	20	o-terphenyl	0	50 - 150	none*	NA	NA
DN78L	01NE31SS115	SX	4	o-terphenyl	24	50 - 150	J/UJ	L	b
DN78M	01NE31SS116	SX	20	o-terphenyl	0	50 - 150	none*	NA	NA
DN78N	01NE31SS117	SX	20	o-terphenyl	0	50 - 150	none*	NA	NA
DN78O	01NE31SS118	SX	20	o-terphenyl	0	50 - 150	none*	NA	NA
DN78P	01NE31SS119	SX	50	o-terphenyl	0	50 - 150	none*	NA	NA
DN78Q	01NE31SS120	SX	50	o-terphenyl	0	50 - 150	none*	NA	NA
DN78R	01NE31SS220	SX	100	o-terphenyl	0	50 - 150	none*	NA	NA
DN78S	01NE31SS125	SX	1	o-terphenyl	32	50 - 150	J/UJ	L	b

Laboratory: **SAS**

Laboratory: **SAS**

SDG: **100413**

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
100413L04	01NE28SD363	SX	50	o-terphenyl	0	50 - 150	none*	NA	NA

SDG: **100492**

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
100492L05	01NE31SS320	SX	20	n-triacontane-d62	0	50 - 150	none*	NA	NA

[1] Laboratory-established limits

[2] According to the Functional Guidelines for Organic Data Review, if the surrogate recovery is > UCL, flag detected results J; if the surrogate recovery is < LCL, flag detected results J and non-detects UJ; if the surrogate recovery is less than 10%, flag detected results J and non-detects UR

* qualifiers do not apply if the sample was diluted by >5 times and the recovery is <LCL

5.3 Blanks

Method blanks were analyzed at the minimum required frequency. Diesel range organics were reported as non-detected in all cases except the following:

Laboratory: **ARI**
Project ID: **DN73**
Prep Date: 8/29/01
MB Batch ID: TD0827E-01
Matrix: WQ

Analyte	Result	PQL	Units	Q [1]	Bias	RC
diesel range organics	0.34	0.25	mg/L			

Affected Samples:	Sample ID	Field ID						
	DN73C	01NE06WP103	0.29	0.25	mg/L	B	H	a
	DN73F	01NE04WP104	0.96	0.25	mg/L	B	H	a
	DN73G	01NE04WP102	1.4	1.2	mg/L	B	H	a

[1] According to the National Functional Guidelines for Organic Data Review, any compound detected in a blank that was also detected in an associated sample is qualified if the sample result is less than 10x the blank concentration for common laboratory contaminants, or 5x for all other analytes. Flagging for this project is modified to "B" at the amount found in the sample.

Field blanks were not collected for analysis by this method.

5.4 Matrix Spike/Matrix Spike Duplicates

MS/MSDs were analyzed at the required frequency. All recoveries and RPDs were within the required limits except the following:

Laboratory: SAS
Prep Date: 8/29/01
Prep Batch ID: DS0407
Spiked Sample: 01NE28SD371
Matrix: SX
Dil Factor: 1

ANALYTE	Sample Result mg/Kg	Spike Conc. mg/Kg	% Recovery MS	% Recovery MSD	Limits [1]	MS/MSD RPD	Limit [1]	Q [2]	Bias	RC
residual range organics	2000	1800	78.4	136	60 - 140	54	50	J/UJ	N	f

Associated Samples:

01NE29SD325	(100413-01)	01NE28SD375	(100413-02)
01NE28SD371	(100413-03)	01NE28SD363	(100413-04)
01NE29SD314	(100413-05)	01NE28SD363	(100413L04)

Laboratory: ARI
Prep Date: 8/24/01
Prep Batch ID: TD0823C-01
Spiked Sample: 01NE28SD158
Matrix: SX
Dil Factor: 40

ANALYTE	Sample Result mg/Kg	Spike Conc. mg/Kg	% Recovery MS	% Recovery MSD	Limits [1]	MS/MSD RPD	Limit [1]	Q [2]	Bias	RC
diesel range organics	3800	68.2	968	4910	26 - 132	134	30	J/UJ	H	c f

Associated Samples:

01NE28SD153	(DN05A)	01NE28SD154	(DN05B)
01NE28SD155	(DN05C)	01NE28SD156	(DN05D)
01NE28SD157	(DN05E)	01NE28SD158	(DN05F)
01NE28SD253	(DN05G)	01NE28SD257	(DN05H)

Laboratory: ARI
Prep Date: 8/27/01
Prep Batch ID: TD0823D-01
Spiked Sample: 01NE28SD139
Matrix: SX
Dil Factor: 10

ANALYTE	Sample Result mg/Kg	Spike Conc. mg/Kg	% Recovery MS	% Recovery MSD	Limits [1]	MS/MSD RPD	Limit [1]	Q [2]	Bias	RC
diesel range organics	520	117	133	13.7	26 - 132	163	30	J/UJ	L	c f

Associated Samples:

01NE28SD135	(DN06A)	01NE28SD136	(DN06B)
01NE28SD137	(DN06C)	01NE28SD138	(DN06D)
01NE28SD139	(DN06E)	01NE28SD140	(DN06F)
01NE28SD239	(DN06G)	01NE28SD141	(DN06H)
01NE28SD142	(DN06I)	01NE28SD143	(DN06J)
01NE28SD144	(DN06K)	01NE28SD145	(DN06L)
01NE28SD146	(DN06M)	01NE28SD147	(DN06N)
01NE28SD148	(DN06O)	01NE28SD149	(DN06P)
01NE28SD150	(DN06Q)	01NE28SD151	(DN06R)
01NE28SD251	(DN06S)	01NE28SD152	(DN06T)

Laboratory: ARI
Prep Date: 9/3/01
Prep Batch ID: TD0831A-01
Spiked Sample: 01NE09SD113
Matrix: SX
Dil Factor: 1

ANALYTE	Sample Result mg/Kg	Spike Conc. mg/Kg	% Recovery MS	% Recovery MSD	Limits [1]	MS/MSD RPD	Limit [1]	Q [2]	Bias	RC
diesel range organics	270	305	42	182	26 - 132	186	30	J/UJ	H	c f

Associated Samples:

01NE09SD107	(DN76D)	01NE09SD108	(DN76E)
01NE30SS101	(DN76F)	01NE30SD101	(DN76G)
01NE30SS103	(DN76H)	01NE30SS102	(DN76I)
01NE09SD109	(DN76J)	01NE09SD213	(DN76K)
01NE24SD114	(DN76L)	01NE24SD115	(DN76M)
01NE32SS105	(DN76N)	01NE09SD113	(DN76P)

Laboratory: ARI
Prep Date: 9/4/01
Prep Batch ID: TD0831B-01
Spiked Sample: 01NE21SS269
Matrix: SX
Dil Factor: 5

ANALYTE	Sample Result mg/Kg	Spike Conc. mg/Kg	% Recovery MS	% Recovery MSD	Limits [1]	MS/MSD RPD	Limit [1]	Q [2]	Bias	RC
diesel range organics	220	275	57.5	143	26 - 132	147	30	J/UJ	H	c f

Associated Samples:						
01NE21SS169	(	DN68A	)	01NE21SS269	(DN68B)	
01NE09SD114	(	DN68F	)	01NE09SD114	(DN68F-RE)	
01NE31SS101	(	DN68N	)	01NE31SS102	(DN68O)	
01NE31SS103	(	DN68Q	)	01NE31SS104	(DN68R)	
01NE32SS101	(	DN68S	)	01NE32SS102	(DN68T)	
01NE32SS103	(	DN68U	)	01NE32SS104	(DN68V)	

Laboratory: ARI
Prep Date: 9/6/01
Prep Batch ID: TD0831C-01
Spiked Sample: 01NE31SS121
Matrix: SX
Dil Factor: 5

ANALYTE	Sample Result mg/Kg	Spike Conc. mg/Kg	% Recovery MS	% Recovery MSD	Limits [1]	MS/MSD RPD	Limit [1]	Q [2]	Bias	RC
diesel range organics	47	86.4	85	64	26 - 132	75.9	30	J/UJ	N	f

Associated Samples:						
01NE21SB169	(	DN69A	)	01NE21SB170	(DN69B)	
01NE21SS170	(	DN69C	)	01NE21SB171	(DN69D)	
01NE21SS171	(	DN69E	)	01NE21SS172	(DN69F)	
01NE21SS173	(	DN69G	)	01NE21SD113	(DN69H)	
01NE21SD114	(	DN69I	)	01NE31SS121	(DN69N)	
01NE31SS122	(	DN69O	)	01NE31SS123	(DN69P)	
01NE31SS124	(	DN69Q	)	01NE31SS221	(DN69R)	

[1] Laboratory-established limits

[2] If the MS or MSD recovery is < LCL apply J to all detected results, apply UJ to all non-detects; if the MS or MSD recovery is > UCL apply J to all detected results; if the MS/MSD RPD is > UCL apply J to all detected results, apply UJ to all non-detects. For this review, qualifiers will apply to the spiked sample only

5.4 Sample Duplicates

Sample duplicates were also analyzed. Precision between the primary and duplicate sample results was acceptable in all cases except the following:

Laboratory: ARI

Analyte	*Primary Sample* 01NE09SD107 DN76D SX		*Replicate Sample* 01NE09SD107 DN76DDP SX	RPD	Units	RPD Limit [1]	Q [2]	Bias	RC
diesel range organics	320	J	220	37	mg/Kg	30	J/UJ	N	f

Laboratory: ARI

Analyte	*Primary Sample* 01NE28SD118 DN04B SX		*Replicate Sample* 01NE28SD118 DN04BDP SX	RPD	Units	RPD Limit [1]	Q [2]	Bias	RC
diesel range organics	330	J	520	45	mg/Kg	30	J/UJ	N	f

Laboratory: SAS

Analyte	*Primary Sample* 01NE31SS321 100492-11 SX		*Replicate Sample* 01NE31SS321 100492R11 SX	RPD	Units	RPD Limit [1]	Q [2]	Bias	RC
diesel range organics	54	J	29	60	mg/Kg	50	J/UJ	N	f

[1] Laboratory-established Limits

[2] According to the Functional Guidelines for Organic Data Review, If the duplicate RPD exceeds the UCL, flag the original sample as estimated J/UJ

5.5 Laboratory Control Samples

Laboratory control samples were analyzed at the required frequency. All recoveries and RPDs were within the required limits.

5.6 Quantitation Limits

The practical quantitation limits (PQLs) achieved by the laboratories were acceptable relative to the estimated quantitation limits (EQL) suggested by this method for aqueous and soil samples. Project specific reporting limits were met by both labs for water. Five detected results were below the quantitation limit, and are flagged "J". Results below the reporting limit are considered qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in precision near the limit of detection.

5.7 Other Qualifications

The following detected results are estimated due to calibration range exceedance:

Laboratory: SAS
Project ID: 100302

Lab ID	Field ID	Matrix	Dil Factor	Analyte	Result	PQL	Units	Q	Bias	RC
100302-04	01NE28SD351	SX	1	diesel range organics	17000	54	mg/Kg	J	N	o
100302-05	01NE28SD353	SX	1	diesel range organics	13000	36	mg/Kg	J	N	o

Laboratory: SAS
Project ID: 100492

Lab ID	Field ID	Matrix	Dil Factor	Analyte	Result	PQL	Units	Q	Bias	RC
100492-05	01NE31SS320	SX	1	residual range organics	14000	33	mg/Kg	J	N	o

Laboratory: ARI
Project ID: DN39

Lab ID	Field ID	Matrix	Dil Factor	Analyte	Result	PQL	Units	Q	Bias	RC
DN39B	01NE28SD160	SX	10	diesel range organics	58000	50	mg/Kg	J	N	o
DN39C	01NE28SD161	SX	20	diesel range organics	60000	100	mg/Kg	J	N	o
DN39D	01NE28SD163	SX	20	diesel range organics	49000	100	mg/Kg	J	N	o
DN39E	01NE28SD164	SX	10	diesel range organics	48000	50	mg/Kg	J	N	o
DN39F	01NE28SD263	SX	20	diesel range organics	50000	100	mg/Kg	J	N	o
DN39H	01NE28SD172	SX	1	diesel range organics	5200	22	mg/Kg	J	N	o
DN39P	01NE28SD178	SX	20	diesel range organics	42000	160	mg/Kg	J	N	o

Laboratory: ARI
Project ID: DN55

Lab ID	Field ID	Matrix	Dil Factor	Analyte	Result	PQL	Units	Q	Bias	RC
DN55H	01NE34SS106	SX	4	diesel range organics	1200	20	mg/Kg	J	N	o

[1] According to the Functional Guidelines, any result that exceeds the calibration range should be flagged as estimated

Compounds detected at concentrations exceeding the calibration range are quantitatively unreliable. The samples listed above were appropriately diluted and reanalyzed.

5.8 QA / QC Triplicates

Twenty-three sets of QA / QC triplicate samples were collected for analysis by this method. A disagreement of greater than three times (when all results are above the RL) or greater than five times (when one result is nondetected) or three times (when one result is less than the RL) was found for the following primary, QC and QA triplicate sets:

Matrix: SX

Lab ID	Field ID		Analyte	Result	Units	Q	Bias	RC
DN05E	01NE28SD157	Primary Sample	diesel range organics	15000	mg/Kg			
DN05H	01NE28SD257	QC Dup of 01NE28SD157	diesel range organics	18000	mg/Kg			
100302-06	01NE28SD357	QA Dup of 01NE28SD157	diesel range organics	3700	mg/Kg			

Matrix: SX

Lab ID	Field ID		Analyte	Result	Units	Q	Bias	RC
DN78A	01NE31SS105	Primary Sample	diesel range organics	3400	mg/Kg			
DN78B	01NE31SS205	QC Dup of 01NE31SS105	diesel range organics	3700	mg/Kg			
100492-06	01NE31SS305	QA Dup of 01NE31SS105	diesel range organics	990	mg/Kg			

No data were qualified on the basis of field duplicate precision.

A major disagreement of greater than five times (when all results are above the RL) or greater than ten times (when one result is nondetected) or greater than five times when (one result is less than the RL) was found for the following primary, QC and QA triplicate sets:

Matrix: SX

Lab ID	Field ID		Analyte		Result	Units	Q	Bias	RC
DN78A	01NE31SS105	Primary Sample	motor oil	<	500	mg/Kg	UJ	N	n
DN78B	01NE31SS205	QC Dup of 01NE31SS105	motor oil	<	500	mg/Kg	UJ	N	n
100492-06	01NE31SS305	QA Dup of 01NE31SS105	residual range organi		43	mg/Kg	J	N	n

Matrix: SX

Lab ID	Field ID		Analyte	Result	Units	Q	Bias	RC
DN06E	01NE28SD139	Primary Sample	diesel range organics	520	mg/Kg	J	N	c,f,n
DN06G	01NE28SD239	QC Dup of 01NE28SD139	diesel range organics	610	mg/Kg	J	N	n
100302-08	01NE28SD339	QA Dup of 01NE28SD139	diesel range organics	64	mg/Kg	J	N	m,n

Results for these samples have been flagged "n".

5.9 Additional Comments

Due to elevated temperature, diesel/residual range organics results for sample 01NE35GW301 are qualified as estimated. Results should be considered minimum values.

Some samples required dilutions to accurately quantitate diesel range organics (see section 5.7). All reporting limits and concentrations were adjusted for the dilutions. Nondetected residual range organics and results within the calibration range should be used from the original analysis, and DRO results outside the calibration range (flagged o) should be used from the appropriate dilutions.

Overall Assessment

Major and minor data quality deficiencies were found, resulting in a significant amount of qualified data. No data were rejected. Most qualifications made were due to surrogate recovery problems, and poor accuracy and/or precision in the matrix spikes and sample duplicates indicating matrix effect. Tables 4 through 14 list all qualified sample results, by data quality indicator and analysis type. Results that were qualified as estimated or nondetected are useable for limited purposes. All other data generated by this method should be considered useable as reported.

6.0 Organochlorine Pesticides / PCBs

The following number of samples were prepared and analyzed by the listed methods:

Laboratory: ARI

# of Samples	Matrix	Prep Method	Analysis Method	Reporting Units
156	SX	SW3550B	SW8082	µg/Kg
38	SX	SW3550B	SW8081	µg/Kg
31	WX	SW3510C	SW8082	µg/L

Laboratory: SAS

# of Samples	Matrix	Prep Method	Analysis Method	Reporting Units
15	SX	SW3550	SW8082	mg/Kg
4	WX	SW3510	SW8082	µg/L
1	SX	SW3550	SW8081A	µg/Kg

Samples analyzed by this method are identified in Table 1.

6.1 Holding Time

All samples were prepared and analyzed within the required technical holding time except the following:

Laboratory: ARI

SDG: DN40

Lab ID	Field ID	Matrix	Collected	Prepared*	Analyzed	Holding Time (Days) Prep	Holding Time (Days) Anal	RTHT[1] (Days) Prep	RTHT[1] (Days) Anal	Q[2]	Bias	RC
DN40G-RE	01NE29SD120	SX	8/21/01	9/5/01	9/7/01	15	2	14	40	J/UJ	L	e
DN40H-RE	01NE29SD121	SX	8/21/01	9/5/01	9/7/01	15	2	14	40	J/UJ	L	e
DN40I-RE	01NE29SD122	SX	8/21/01	9/5/01	9/7/01	15	2	14	40	J/UJ	L	e
DN40A-RE	01NE29SD123	SX	8/21/01	9/5/01	9/7/01	15	2	14	40	J/UJ	L	e
DN40B-RE	01NE29SD124	SX	8/21/01	9/5/01	9/7/01	15	2	14	40	J/UJ	L	e
DN40C-RE	01NE29SD125	SX	8/21/01	9/5/01	9/7/01	15	2	14	40	J/UJ	L	e
DN40N-RE	01NE29SD126	SX	8/21/01	9/5/01	9/7/01	15	2	14	40	J/UJ	L	e
DN40M-RE	01NE29SD127	SX	8/21/01	9/5/01	9/7/01	15	2	14	40	J/UJ	L	e
DN40E-RE	01NE29SD128	SX	8/21/01	9/5/01	9/7/01	15	2	14	40	J/UJ	L	e
DN40F-RE	01NE29SD129	SX	8/21/01	9/5/01	9/7/01	15	2	14	40	J/UJ	L	e
DN40D-RE	01NE29SD225	SX	8/21/01	9/5/01	9/7/01	15	2	14	40	J/UJ	L	e

***Date received by laboratory:** 8/24/01

SDG: DN73

Lab ID	Field ID	Matrix	Collected	Prepared*	Analyzed	Holding Time (Days) Prep	Holding Time (Days) Anal	RTHT[1] (Days) Prep	RTHT[1] (Days) Anal	Q[2]	Bias	RC
DN73M	01NE21SW11	WX	8/21/01	8/29/01	8/31/01	8	2	7	40	J/UJ	L	e

***Date received by laboratory:** 8/28/01

Laboratory: SAS

SDG: 100492

Lab ID	Field ID	Matrix	Collected	Prepared*	Analyzed	Holding Time (Days) Prep	Holding Time (Days) Anal	RTHT[1] (Days) Prep	RTHT[1] (Days) Anal	Q[2]	Bias	RC
100492-13	01NE09SD313	SX	8/24/01	9/10/01	9/10/01	17	0	14	40	J/UJ	L	e
100492-12	01NE14SS303	SX	8/24/01	9/10/01	9/10/01	17	0	14	40	J/UJ	L	e
100492-04	01NE21SS369	SX	8/24/01	9/10/01	9/10/01	17	0	14	40	J/UJ	L	e
100492-10	01NE31SS302	SX	8/24/01	9/10/01	9/10/01	17	0	14	40	J/UJ	L	e

***Date received by laboratory:** 8/28/01

[1] Required technical holding time established for the method

[2] According to the Functional Guidelines for Organic Data Review, if sample preparation or analysis holding time is exceeded, flag detected and nondetected results as estimated

6.2 Surrogates

All surrogate recoveries were within the required limits except the following:

Laboratory: ARI

SDG: DN04

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN04P-RE	01NE28SD131	SX	1	decachlorobiphenyl	38.2	39 - 132	J/UJ	L	b

SDG: DN07

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN07G	01NE28SD113	SX	1	tetrachloro-m-xylene	24.8	34 - 128	J/UJ	L	b
DN07P-DL	01NE07SS127	SX	20	tetrachloro-m-xylene	0	34 - 128	none*	NA	NA
				decachlorobiphenyl	0	39 - 132	none*	NA	NA

SDG: DN38

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN38J	01NE28SD167	SX	4	tetrachloro-m-xylene	32	34 - 128	J/UJ	L	b

SDG: DN39

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN39H	01NE28SD172	SX	1	tetrachloro-m-xylene	33.2	34 - 128	J/UJ	L	b

SDG: DN68

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN68U	01NE32SS103	SX	1	decachlorobiphenyl	37.5	41 - 128	J/UJ	L	b
DN68V	01NE32SS104	SX	1	tetrachloro-m-xylene	118	40 - 116	J/none	H	b

SDG: DN69

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN69K-DL	01NE14SS102	SX	20	decachlorobiphenyl	0	39 - 132	none*	NA	NA
				tetrachloro-m-xylene	0	34 - 128	none*	NA	NA

SDG: DN71

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN71D	01NE09MW10	WX	1	decachlorobiphenyl	19	22 - 139	J/UJ	L	b

Laboratory: ARI

SDG: DN76

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN76N	01NE32SS105	SX	1	decachlorobiphenyl	38.2	41 - 128	J/UJ	L	b

SDG: DQ74

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DQ74A	01NE16SS167	SX	1	decachlorobiphenyl	40	41 - 128	J/UJ	L	b
DQ74B	01NE16SS168	SX	1	decachlorobiphenyl	29.2	41 - 128	J/UJ	L	b
				tetrachloro-m-xylene	38.8	40 - 116	J/UJ	L	b
DQ74B-DL	01NE16SS168	SX	5	decachlorobiphenyl	36.2	41 - 128	J/UJ	L	b
DQ74C	01NE28SD183	SX	1	decachlorobiphenyl	35.2	41 - 128	J/UJ	L	b
DQ74D	01NE28SD184	SX	1	decachlorobiphenyl	35.8	41 - 128	J/UJ	L	b
DQ74E	01NE28SD185	SX	1	decachlorobiphenyl	34.5	41 - 128	J/UJ	L	b
DQ74E-DL	01NE28SD185	SX	40	tetrachloro-m-xylene	0	40 - 116	none*	NA	NA
				decachlorobiphenyl	0	41 - 128	none*	NA	NA
DQ74F-DL	01NE28SD186	SX	20	decachlorobiphenyl	0	41 - 128	none*	NA	NA
				tetrachloro-m-xylene	0	40 - 116	none*	NA	NA
DQ74G	01NE28SD187	SX	1	decachlorobiphenyl	31.8	41 - 128	J/UJ	L	b
DQ74J	01NE28SD190	SX	1	decachlorobiphenyl	32.2	41 - 128	J/UJ	L	b
				tetrachloro-m-xylene	31	40 - 116	J/UJ	L	b
DQ74K	01NE28SD191	SX	1	decachlorobiphenyl	38.2	41 - 128	J/UJ	L	b
DQ74L	01NE28SD192	SX	1	decachlorobiphenyl	36.2	41 - 128	J/UJ	L	b
				tetrachloro-m-xylene	38.2	40 - 116	J/UJ	L	b
DQ74M	01NE28SD292	SX	1	decachlorobiphenyl	38.8	41 - 128	J/UJ	L	b
				tetrachloro-m-xylene	39.5	40 - 116	J/UJ	L	b
DQ74N	01NE28SD285	SX	1	decachlorobiphenyl	34	41 - 128	J/UJ	L	b
DQ74N-DL	01NE28SD285	SX	20	tetrachloro-m-xylene	0	40 - 116	none*	NA	NA
				decachlorobiphenyl	0	41 - 128	none*	NA	NA

[1] Laboratory-established limits

[2] According to the Functional Guidelines for Organic Data Review, if the surrogate recovery is > UCL, flag detected results J; if the surrogate recovery is < LCL, flag detected results J and non-detects UJ; if the surrogate recovery is less than 10%, flag detected results J and non-detects UR

6.3 Blanks

Method blanks were analyzed at the minimum required frequency. All target compounds were reported as non-detected in all cases.

Field blanks were not collected for analysis by this method.

6.4 Matrix Spike/Matrix Spike Duplicates

MS/MSDs were analyzed at the required frequency. All recoveries and RPDs were within the required limits except the following:

Laboratory: ARI
SDG: DN68
Prep Date: 9/3/01
Prep Batch ID: PE0831A-01
Spiked Sample: 01NE31SS102
Matrix: SX
Dil Factor: 1

ANALYTE	Sample Result µg/Kg		Spike Conc. µg/Kg	% Recovery MS	% Recovery MSD	Limits [1]	MS/MSD RPD	Limit [1]	Q [2]	Bias	RC
4,4'-DDT	<	97	37	403	414	35 - 117	28	NA	J/none	H	c

Associated Samples:

01NE31SS101	(	DN68N	)	01NE31SS101	(	DN68N-DL	)
01NE31SS102	(	DN68O	)	01NE31SS102	(	DN68O-DL	)
01NE31SS202	(	DN68P	)	01NE31SS202	(	DN68P-DL	)
01NE31SS103	(	DN68Q	)	01NE31SS103	(	DN68Q-DL	)
01NE31SS104	(	DN68R	)	01NE31SS104	(	DN68R-DL	)
01NE32SS103	(	DN68U	)	01NE32SS104	(	DN68V	)
01NE31SS121	(	DN69N	)	01NE31SS122	(	DN69O	)
01NE31SS122	(	DN69O-DL	)	01NE31SS123	(	DN69P	)
01NE31SS123	(	DN69P-DL	)	01NE31SS124	(	DN69Q	)
01NE32SS105	(	DN76N	)				

Laboratory: SAS
SDG: 100492
Prep Date: 9/5/01
Prep Batch ID: PE1416
Spiked Sample: 01NE31SS302
Matrix: SX
Dil Factor: 1

ANALYTE	Sample Result µg/Kg	Spike Conc. µg/Kg	% Recovery MS	% Recovery MSD	Limits [1]	MS/MSD RPD	Limit [1]	Q [2]	Bias	RC
endrin	< 2.3	53.4	1050	1010	45 - 145	-3.9	22	J/none	H	c
dieldrin	< 2.3	53.4	464	450	47 - 135	-3.1	26	J/none	H	c
4,4'-DDT	< 2.3	53.4	764	743	47 - 135	-2.8	26	J/none	H	c

Associated Samples: 01NE31SS302 (100492-10)

[1] Laboratory-established limits

[2] If the MS or MSD recovery is < LCL apply J to all detected results, apply UJ to all non-detects; if the MS or MSD recovery is > UCL apply J to all detected results; if the MS/MSD RPD is > UCL apply J to all detected results, apply UJ to all non-detects. For this review, qualifiers will apply to the spiked sample only

6.5 Laboratory Control Samples

Laboratory control samples were analyzed at the required frequency. All recoveries and RPDs were within the required limits.

6.6 Quantitation Limits

The practical quantitation limits (PQLs) achieved by the laboratories were acceptable relative to the estimated quantitation limits (EQL) suggested by this method for aqueous and soil matrix samples. All detected results reported were above the quantitation limit. Project specific reporting limits were met by both laboratories for water.

6.7 Other Qualifications

The following detected results are estimated due to calibration range exceedance:

Laboratory: ARI
Project ID: DN68

Lab ID	Field ID	Matrix	Dil Factor	Analyte	Result	PQL	Units	Q	Bias	RC
DN68O	01NE31SS102	SX	1	aroclor 1260	3200	37	µg/Kg	J	N	o
DN68Q	01NE31SS103	SX	1	aroclor 1260	3000	35	µg/Kg	J	N	o
DN68R	01NE31SS104	SX	1	aroclor 1260	3200	35	µg/Kg	J	N	o

Laboratory: ARI
Project ID: DQ74

Lab ID	Field ID	Matrix	Dil Factor	Analyte	Result	PQL	Units	Q	Bias	RC
DQ74B	01NE16SS168	SX	1	4,4'-DDT	140	3.8	µg/Kg	J	N	o
DQ74C	01NE28SD183	SX	1	4,4'-DDD	200	7	µg/Kg	J	N	o
DQ74F	01NE28SD186	SX	1	4,4'-DDD	290	5	µg/Kg	J	N	o

[1] According to the Functional Guidelines, any result that exceeds the calibration range should be flagged as estimated

Compounds detected at concentrations exceeding the calibration range are quantitatively unreliable. The samples listed above were appropriately diluted and reanalyzed.

6.8 QA / QC Triplicates

Nineteen sets of QA / QC triplicate samples were collected for analysis by this method. All samples were reported as nondetected for all target compounds.

6.9 Additional Comments

In some cases aroclor reporting limits were elevated due to matrix interference. In some samples, high levels of aroclor 1260 saturated the detector during analysis, and therefore aroclor 1260 could not be reported on the undiluted run and was reported from the dilution. Throughout the project only aroclor 1242 was used as the matrix spike and LCS spiking compound although this analyte was not detected.

Overall Assessment

Minor data quality deficiencies were found, resulting in a significant amount of qualified data. No data were rejected. Most qualifications made were due to low surrogate recovery indicating matrix effect. Tables 4 through 14 list all qualified sample results, by data quality indicator and analysis type. Results that were qualified as estimated or nondetected are useable for limited purposes. All other data generated by this method should be considered useable as reported.

7.0 Polynuclear Aromatic Hydrocarbons

The following number of samples were prepared and analyzed by the listed methods:

Laboratory: ARI

# of Samples	Matrix	Prep Method	Analysis Method	Reporting Units
113	SX	SW3550B	8270SIM	µg/Kg
25	WX	SW3520C	8270SIM	µg/L

Laboratory: SAS

# of Samples	Matrix	Prep Method	Analysis Method	Reporting Units
12	SX	SW3550	SW8270C	µg/Kg
3	WX	SW3510	SW8270C	µg/L

Samples analyzed by this method are identified in Table 1.

7.1 Holding Time

All samples were prepared and analyzed within the required technical holding time except the following:

Laboratory: ARI

SDG: DN04

Lab ID	Field ID	Matrix	Collected	Prepared*	Analyzed	Holding Time (Days) Prep	Holding Time (Days) Anal	RTHT[1] (Days) Prep	RTHT[1] (Days) Anal	Q[2]	Bias	RC
DN04S-REDL	01NE28SD134	SX	8/18/01	9/5/01	9/7/01	18	2	14	40	J/UJ	L	e
DN04S-RE	01NE28SD134	SX	8/18/01	9/5/01	9/6/01	18	1	14	40	J/UJ	L	e

***Date received by laboratory:** 8/21/01

SDG: DN06

Lab ID	Field ID	Matrix	Collected	Prepared*	Analyzed	Holding Time (Days) Prep	Holding Time (Days) Anal	RTHT[1] (Days) Prep	RTHT[1] (Days) Anal	Q[2]	Bias	RC
DN06H-RE	01NE28SD141	SX	8/19/01	9/5/01	9/6/01	17	1	14	40	J/UJ	L	e
DN06L-RE	01NE28SD145	SX	8/19/01	9/5/01	9/6/01	17	1	14	40	J/UJ	L	e
DN06Q-REDL	01NE28SD150	SX	8/19/01	9/5/01	9/7/01	17	2	14	40	J/UJ	L	e
DN06Q-RE	01NE28SD150	SX	8/19/01	9/5/01	9/6/01	17	1	14	40	J/UJ	L	e

***Date received by laboratory:** 8/21/01

SDG: DN39

Lab ID	Field ID	Matrix	Collected	Prepared*	Analyzed	Holding Time (Days) Prep	Holding Time (Days) Anal	RTHT[1] (Days) Prep	RTHT[1] (Days) Anal	Q[2]	Bias	RC
DN39K-RE	01NE28SD175	SX	8/20/01	9/6/01	9/7/01	17	1	14	40	J/UJ	L	e

***Date received by laboratory:** 8/24/01

SDG: DN40

Lab ID	Field ID	Matrix	Collected	Prepared*	Analyzed	Holding Time (Days) Prep	Holding Time (Days) Anal	RTHT[1] (Days) Prep	RTHT[1] (Days) Anal	Q[2]	Bias	RC
DN40C-RE	01NE29SD125	SX	8/21/01	9/6/01	9/7/01	16	1	14	40	J/UJ	L	e
DN40N-RE	01NE29SD126	SX	8/21/01	9/6/01	9/7/01	16	1	14	40	J/UJ	L	e
DN40E-RE	01NE29SD128	SX	8/21/01	9/6/01	9/7/01	16	1	14	40	J/UJ	L	e

***Date received by laboratory:** 8/24/01

SDG: DN55

Lab ID	Field ID	Matrix	Collected	Prepared*	Analyzed	Holding Time (Days) Prep	Holding Time (Days) Anal	RTHT[1] (Days) Prep	RTHT[1] (Days) Anal	Q[2]	Bias	RC
DN55D-RE	01NE34SS101	SX	8/23/01	9/12/01	9/17/01	20	5	14	40	J/UJ	L	e

***Date received by laboratory:** 8/25/01

SDG:	DN76					Holding Time (Days)		RTHT[1] (Days)				
Lab ID	Field ID	Matrix	Collected	Prepared*	Analyzed	Prep	Anal	Prep	Anal	Q[2]	Bias	RC
DN76E-RE	01NE09SD108	SX	8/23/01	9/12/01	9/17/01	20	5	14	40	J/UJ	L	e
DN76P-RE	01NE09SD113	SX	8/24/01	9/12/01	9/18/01	19	6	14	40	J/UJ	L	e
DN76H-RE	01NE30SS103	SX	8/24/01	9/12/01	9/17/01	19	5	14	40	J/UJ	L	e

***Date received by laboratory:** 8/28/01

[1] Required technical holding time established for the method

[2] According to the Functional Guidelines for Organic Data Review, if sample preparation or analysis holding time is exceeded, flag detected and nondetected results as estimated

7.2 Surrogates

All surrogate recoveries were within the required limits except the following:

Laboratory: ARI
SDG: DN04

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN04I-DL	01NE28SD125	SX	50	d14-dibenzo(a,h)anthracene	0	30 - 160	none*	NA	NA
				d10-2-methylnaphthalene	0	30 - 160	none*	NA	NA
DN04M-DL	01NE28SD225	SX	50	d10-2-methylnaphthalene	0	30 - 160	none*	NA	NA
				d14-dibenzo(a,h)anthracene	0	30 - 160	none*	NA	NA
DN04S	01NE28SD134	SX	50	d14-dibenzo(a,h)anthracene	0	30 - 160	none*	NA	NA
				d10-2-methylnaphthalene	0	30 - 160	none*	NA	NA

SDG: DN05

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN05F-DL	01NE28SD158	SX	50	d14-dibenzo(a,h)anthracene	0	30 - 160	none*	NA	NA
				d10-2-methylnaphthalene	0	30 - 160	none*	NA	NA

SDG: DN06

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN06H	01NE28SD141	SX	1	d14-dibenzo(a,h)anthracene	29.7	30 - 160	J/UJ	L	b
DN06H-DL	01NE28SD141	SX	3	d14-dibenzo(a,h)anthracene	27	30 - 160	J/UJ	L	b
DN06J-DL	01NE28SD143	SX	40	d10-2-methylnaphthalene	0	30 - 160	none*	NA	NA
				d14-dibenzo(a,h)anthracene	0	30 - 160	none*	NA	NA
DN06K-DL	01NE28SD144	SX	40	d10-2-methylnaphthalene	0	30 - 160	none*	NA	NA
				d14-dibenzo(a,h)anthracene	0	30 - 160	none*	NA	NA
DN06L	01NE28SD145	SX	50	d14-dibenzo(a,h)anthracene	0	30 - 160	none*	NA	NA
				d10-2-methylnaphthalene	0	30 - 160	none*	NA	NA
DN06L-DL	01NE28SD145	SX	100	d10-2-methylnaphthalene	0	30 - 160	none*	NA	NA
				d14-dibenzo(a,h)anthracene	0	30 - 160	none*	NA	NA
DN06O-DL	01NE28SD148	SX	30	d10-2-methylnaphthalene	0	30 - 160	none*	NA	NA
				d14-dibenzo(a,h)anthracene	0	30 - 160	none*	NA	NA
DN06Q	01NE28SD150	SX	50	d14-dibenzo(a,h)anthracene	0	30 - 160	none*	NA	NA
				d10-2-methylnaphthalene	0	30 - 160	none*	NA	NA

SDG: DN07

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN07I-DL	01NE28SD115	SX	20	d10-2-methylnaphthalene	0	30 - 160	none*	NA	NA
				d14-dibenzo(a,h)anthracene	0	30 - 160	none*	NA	NA

Laboratory: ARI

SDG: DN38

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN38A	01NE29SD114	SX	1	d14-dibenzo(a,h)anthracene	26.7	30 - 160	J/UJ	L	b
DN38L	01NE28SD169	SX	1	d14-dibenzo(a,h)anthracene	170	30 - 160	J/none	H	b

SDG: DN39

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN39K	01NE28SD175	SX	3	d10-2-methylnaphthalene	19	30 - 160	J/UJ	L	b
				d14-dibenzo(a,h)anthracene	29	30 - 160	J/UJ	L	b
DN39K-RE	01NE28SD175	SX	1	d14-dibenzo(a,h)anthracene	24	30 - 160	J/UJ	L	b
				d10-2-methylnaphthalene	19	30 - 160	J/UJ	L	b

SDG: DN40

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN40E	01NE29SD128	SX	3	d10-2-methylnaphthalene	9	30 - 160	J/UR	L	b
				d14-dibenzo(a,h)anthracene	21	30 - 160	J/UJ	L	b
DN40N	01NE29SD126	SX	3	d14-dibenzo(a,h)anthracene	20	30 - 160	J/UJ	L	b
				d10-2-methylnaphthalene	11	30 - 160	J/UJ	L	b
DN40N-RE	01NE29SD126	SX	3	d10-2-methylnaphthalene	26	30 - 160	J/UJ	L	b

SDG: DN55

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN55D	01NE34SS101	SX	1	d10-2-methylnaphthalene	26	30 - 160	J/UJ	L	b
				d14-dibenzo(a,h)anthracene	16	30 - 160	J/UJ	L	b

SDG: DN76

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
DN76E	01NE09SD108	SX	3	d14-dibenzo(a,h)anthracene	25	30 - 160	J/UJ	L	b
DN76H	01NE30SS103	SX	3	d14-dibenzo(a,h)anthracene	29	30 - 160	J/UJ	L	b
DN76P	01NE09SD113	SX	3	d14-dibenzo(a,h)anthracene	23	30 - 160	J/UJ	L	b

Laboratory: SAS

SDG: 100302

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
100302-02	01NE28SD311	SX	1	2-fluorobiphenyl	50	55 - 148	none*	NA	NA
100302-05	01NE28SD353	SX	10	2-fluorobiphenyl	34	55 - 148	none*	NA	NA
100302L03	01NE28SD325	SX	10	nitrobenzene-d5	178	51 - 159	J/none	H	b

Laboratory: SAS

SDG: 100302

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
100302L04	01NE28SD351	SX	100	p-terphenyl-d14	0	43 - 148	none*	NA	NA
				nitrobenzene-d5	0	51 - 159	none*	NA	NA
				2-fluorobiphenyl	0	55 - 148	none*	NA	NA

SDG: 100413

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
100413-04	01NE28SD363	SX	100	nitrobenzene-d5	0	51 - 159	none*	NA	NA
				2-fluorobiphenyl	0	55 - 148	none*	NA	NA
				p-terphenyl-d14	0	43 - 148	none*	NA	NA
100413-05	01NE29SD314	SX	1	2-fluorobiphenyl	50.4	55 - 148	none*	NA	NA

SDG: 100492

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
100492-13	01NE09SD313	SX	1	2-fluorobiphenyl	45	55 - 148	none*	NA	NA

SDG: 100553

Lab ID	Field ID	Matrix	Dil Factor	Surrogate	% Rec	Recovery Limits [1]	Q [2]	Bias	RC
100553-01	01NE07WP302	WX	1	p-terphenyl-d14	40.6	48 - 137	J/UJ	L	b
				2-fluorobiphenyl	44.3	59 - 126	J/UJ	L	b

[1] Laboratory-established limits

[2] According to the Functional Guidelines for Organic Data Review, for base/neutral or acid fractions as applicable; if the recoveries for any two surrogates in one fraction are > UCL, flag detected results J; if the recoveries for any two surrogates in one fraction are < LCL, flag detected results J and non-detects UJ; if any surrogate recovery in one fraction is less than 10%, flag detected results J and non-detects UR

* qualifiers do not apply if the sample was diluted by >5 times and the recovery is <LCL

7.3 Blanks

Method blanks were analyzed at the minimum required frequency. All target compounds were reported as nondetected.

Blanks (cont.)

Field blanks were not collected for analysis by this method.

7.4 Matrix Spike/Matrix Spike Duplicates

MS/MSDs were analyzed at the required frequency. All recoveries and RPDs were within the required limits except the following:

Laboratory: SAS
Prep Date: 8/24/01
Prep Batch ID: SS0361
Spiked Sample: 01NE28SD311
Matrix: SX
Dil Factor: 1

Analyte	Sample Result µg/Kg	Spike Conc. µg/Kg	% Recovery MS	% Recovery MSD	Limits [1]	MS/MSD RPD	Limit [1]	Q [2]	Bias	RC
phenanthrene	55	454	166	86	54 - 149	55.1	35	J/UJ	H	c f
fluoranthene	110	454	255	145	53 - 153	48.8	34	J/UJ	H	c f
pyrene	66	454	149	102	54 - 136	31.2	40	J/none	H	c

Associated Samples:

01NE28SD311	(100302-02)	01NE28SD325	(100302-03)
01NE28SD351	(100302-04)	01NE28SD353	(100302-05)
01NE28SD357	(100302-06)	01NE28SD339	(100302-08)
01NE28SD325	(100302L03)	01NE28SD351	(100302L04)

Laboratory: SAS
Prep Date: 8/27/01
Prep Batch ID: SS0364
Spiked Sample: 01NE29SD325
Matrix: SX
Dil Factor: 1

Analyte	Sample Result µg/Kg	Spike Conc. µg/Kg	% Recovery MS	% Recovery MSD	Limits [1]	MS/MSD RPD	Limit [1]	Q [2]	Bias	RC
benzo(b)fluoranthene	< 2	111	83.2	131	48 - 149	45	38	J/UJ	N	f
benzo(k)fluoranthene	< 2	111	62.6	99.6	47 - 143	46	42	J/UJ	N	f

Associated Samples:

01NE29SD325	(100413-01)	01NE28SD375	(100413-02)
01NE28SD371	(100413-03)	01NE28SD363	(100413-04)
01NE29SD314	(100413-05)		

[1] Laboratory-established recovery limits

[2] If the MS or MSD recovery is < LCL apply J to all detected results, apply UJ to all non-detects; if the MS or MSD recovery is > UCL apply J to all detected results; if the MS/MSD RPD is > UCL apply J to all detected results, apply UJ to all non-detects. For this review, qualifiers apply to the spiked sample only

7.5 Laboratory Control Samples

Laboratory control samples were analyzed at the required frequency. All recoveries and RPDs were within the required limits except the following:

Laboratory: ARI
LCS Batch ID: SM0824D-01
Prep Date: 8/28/01
Matrix: SX

Analyte	LCS	LCSD	RPD	Limits[1] % Rec	Limits[1] RPD	Q[2]	Bias	RC
phenanthrene	116	NA	NA	48 - 112	30	J/none	H	d
benzo(k)fluoranthene	135	NA	NA	44 - 123	30	J/none	H	d

Associated Samples: 01NE28SD149 (DN06P)

[1] Laboratory-established Limits

[2] For specific compounds in all samples associated with the preparation batch - if the LCS recovery is > UCL apply J to all detected results; if the LCS recovery is < LCL apply J to all detected results, apply UR to all non-detects; if the RPD is > UCL, apply J to all detected results, apply UJ to all nondetects

7.6 Quantitation Limits

The practical quantitation limits (PQLs) achieved by SAS were acceptable relative to the estimated quantitation limits (EQL) suggested by this method for aqueous and soil samples. Reporting limits at ARI were high for many compounds in soils. In addition, reporting limits varied significantly from sample to sample. Project specific reporting limits were met for water by both laboratories. One detected result was below the quantitation limit, and is flagged "J". Results below the reporting limit are considered qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in precision near the limit of detection.

7.7 Other Qualifications

The following detected results are estimated due to calibration range exceedance:

Project ID:	100302									
Lab ID	Field ID	Matrix	Dil Factor	Analyte	Result	PQL	Units	Q	Bias	RC
100302-03	01NE28SD325	SX	1	2-methylnaphthalene	1900	3.2	µg/Kg	J	N	o
100302-04	01NE28SD351	SX	10	2-methylnaphthalene	19000	23	µg/Kg	J	N	o

Project ID:	DN04									
Lab ID	Field ID	Matrix	Dil Factor	Analyte	Result	PQL	Units	Q	Bias	RC
DN04D	01NE28SD120	SX	1	2-methylnaphthalene	5500	12	µg/Kg	J	N	o
				naphthalene	1600	12	µg/Kg	J	N	o
DN04G	01NE28SD123	SX	1	naphthalene	1500	14	µg/Kg	J	N	o
DN04H	01NE28SD124	SX	1	2-methylnaphthalene	5000	6.2	µg/Kg	J	N	o
				naphthalene	3500	6.2	µg/Kg	J	N	o
DN04I	01NE28SD125	SX	5	2-methylnaphthalene	5600	20	µg/Kg	J	N	o
				naphthalene	3100	20	µg/Kg	J	N	o
DN04K	01NE28SD127	SX	1	2-methylnaphthalene	30000	190	µg/Kg	J	N	o
DN04M	01NE28SD225	SX	10	2-methylnaphthalene	9700	37	µg/Kg	J	N	o
				naphthalene	4400	37	µg/Kg	J	N	o
DN04N	01NE28SD129	SX	1	2-methylnaphthalene	3700	7.7	µg/Kg	J	N	o
				naphthalene	4700	7.7	µg/Kg	J	N	o
DN04S-RE	01NE28SD134	SX	1	2-methylnaphthalene	25000	160	µg/Kg	J	N	o

Project ID:	DN05									
Lab ID	Field ID	Matrix	Dil Factor	Analyte	Result	PQL	Units	Q	Bias	RC
DN05B	01NE28SD154	SX	1	2-methylnaphthalene	18000	140	µg/Kg	J	N	o
DN05C	01NE28SD155	SX	1	2-methylnaphthalene	260000	910	µg/Kg	J	N	o
				naphthalene	130000	910	µg/Kg	J	N	o
DN05D	01NE28SD156	SX	1	2-methylnaphthalene	250000	930	µg/Kg	J	N	o
				naphthalene	110000	930	µg/Kg	J	N	o
DN05F	01NE28SD158	SX	1	2-methylnaphthalene	14000	34	µg/Kg	J	N	o
				naphthalene	6500	34	µg/Kg	J	N	o

Project ID:	DN06									
Lab ID	Field ID	Matrix	Dil Factor	Analyte	Result	PQL	Units	Q	Bias	RC
DN06E	01NE28SD139	SX	1	fluoranthene	890	4.6	µg/Kg	J	N	o
				phenanthrene	990	4.6	µg/Kg	J	N	o
				pyrene	1000	4.6	µg/Kg	J	N	o
DN06I	01NE28SD142	SX	1	2-methylnaphthalene	620	4.6	µg/Kg	J	N	o
DN06J	01NE28SD143	SX	1	2-methylnaphthalene	52000	140	µg/Kg	J	N	o

Project ID:	DN06									
Lab ID	Field ID	Matrix	Dil Factor	Analyte	Result	PQL	Units	Q	Bias	RC
				naphthalene	23000	140	µg/Kg	J	N	o
DN06K	01NE28SD144	SX	1	2-methylnaphthalene	41000	110	µg/Kg	J	N	o
				naphthalene	18000	110	µg/Kg	J	N	o
DN06L	01NE28SD145	SX	50	2-methylnaphthalene	33000	230	µg/Kg	J	N	o
DN06M	01NE28SD146	SX	1	2-methylnaphthalene	280000	700	µg/Kg	J	N	o
				naphthalene	140000	700	µg/Kg	J	N	o
DN06O	01NE28SD148	SX	1	2-methylnaphthalene	39000	120	µg/Kg	J	N	o
				naphthalene	17000	120	µg/Kg	J	N	o

Project ID:	DN07									
Lab ID	Field ID	Matrix	Dil Factor	Analyte	Result	PQL	Units	Q	Bias	RC
DN07I	01NE28SD115	SX	3	2-methylnaphthalene	6700	41	µg/Kg	J	N	o

Project ID:	DN39									
Lab ID	Field ID	Matrix	Dil Factor	Analyte	Result	PQL	Units	Q	Bias	RC
DN39C	01NE28SD161	SX	1	2-methylnaphthalene	260000	1600	µg/Kg	J	N	o

[1] According to the Functional Guidelines, any result that exceeds the calibration range should be flagged as estimated

Compounds detected at concentrations exceeding the calibration range are quantitatively unreliable. The listed samples were appropriately diluted and reanalyzed.

7.8 QA / QC Triplicates

Fourteen sets of QA / QC triplicate samples were collected for analysis by this method. A disagreement of greater than four times (soil), two times (water) (when all results were above the RL) or five times (when one result is nondetected) or greater than three times (when one result was below the RL) was found for the following target compounds in the primary, QC and QA triplicate sets:

Matrix: SX

Lab ID	Field ID		Analyte	Result	Units	Q	Bias	RC
DN04I	01NE28SD125	Primary Sample	acenaphthene	140	µg/Kg			
DN04M	01NE28SD225	QC Dup of 01NE28SD125	acenaphthene	270	µg/Kg			
100302-03	01NE28SD325	QA Dup of 01NE28SD125	acenaphthene	57	µg/Kg			

Matrix: SX

Lab ID	Field ID		Analyte	Result	Units	Q	Bias	RC
DN06R	01NE28SD151	Primary Sample	benzo(b)fluoranthene	< 700	µg/Kg	U		
DN06S	01NE28SD251	QC Dup of 01NE28SD151	benzo(b)fluoranthene	< 680	µg/Kg	U		
100302-04	01NE28SD351	QA Dup of 01NE28SD151	benzo(b)fluoranthene	86	µg/Kg			
DN06R	01NE28SD151	Primary Sample	chrysene	< 700	µg/Kg	U		
DN06S	01NE28SD251	QC Dup of 01NE28SD151	chrysene	< 680	µg/Kg	U		
100302-04	01NE28SD351	QA Dup of 01NE28SD151	chrysene	120	µg/Kg			

Matrix: SX

Lab ID	Field ID		Analyte	Result	Units	Q	Bias	RC
DN05A	01NE28SD153	Primary Sample	pyrene	< 670	µg/Kg	U		
DN05G	01NE28SD253	QC Dup of 01NE28SD153	pyrene	< 570	µg/Kg	U		
100302-05	01NE28SD353	QA Dup of 01NE28SD153	pyrene	85	µg/Kg			

Matrix: SX

Lab ID	Field ID		Analyte	Result	Units	Q	Bias	RC
DN38A	01NE29SD114	Primary Sample	acenaphthene	13	µg/Kg	J	L	b
DN38B	01NE29SD214	QC Dup of 01NE29SD114	acenaphthene	14	µg/Kg			
100413-05	01NE29SD314	QA Dup of 01NE29SD114	acenaphthene	< 3.4	µg/Kg	U		
DN38A	01NE29SD114	Primary Sample	pyrene	< 8.4	µg/Kg	UJ	L	b
DN38B	01NE29SD214	QC Dup of 01NE29SD114	pyrene	17	µg/Kg			
100413-05	01NE29SD314	QA Dup of 01NE29SD114	pyrene	< 3.4	µg/Kg	U		

Matrix: SX

Lab ID	Field ID		Analyte	Result	Units	Q	Bias	RC
DN07D	01NE28SD111	Primary Sample	phenanthrene	210	µg/Kg			
DN07E	01NE28SD211	QC Dup of 01NE28SD111	phenanthrene	48	µg/Kg			
100302-02	01NE28SD311	QA Dup of 01NE28SD111	phenanthrene	55	µg/Kg	J	N	c,f

No data were qualified on the basis of field duplicate precision.

7.8 QA / QC Triplicates (cont.)

A major disagreement of greater than five times (when all results are above the RL) or greater than five times (when one result is less than the RL) or greater than ten times (when one result is nondetected) was found for the following primary, QC and QA triplicate sets:

Matrix: SX

Lab ID	Field ID	Dup ID	Analyte	Result	Units	Q	Bias	RC
DN05E	01NE28SD157	Primary Sample	acenaphthene	200	µg/Kg	J	N	n
DN05H	01NE28SD257	QC Dup of 01NE28SD157	acenaphthene	< 71	µg/Kg	UJ	N	n
100302-06	01NE28SD357	QA Dup of 01NE28SD157	acenaphthene	< 20	µg/Kg	UJ	N	n
DN05E	01NE28SD157	Primary Sample	fluorene	200	µg/Kg	J	N	n
DN05H	01NE28SD257	QC Dup of 01NE28SD157	fluorene	< 71	µg/Kg	UJ	N	n
100302-06	01NE28SD357	QA Dup of 01NE28SD157	fluorene	< 20	µg/Kg	UJ	N	n

Matrix: SX

Lab ID	Field ID	Dup ID	Analyte	Result	Units	Q	Bias	RC
DN39D	01NE28SD163	Primary Sample	2-methylnaphthalene	2700 *	µg/Kg	J	N	n
DN39F	01NE28SD263	QC Dup of 01NE28SD163	2-methylnaphthalene	2700	µg/Kg	J	N	n
100413-04	01NE28SD363	QA Dup of 01NE28SD163	2-methylnaphthalene	< 210	µg/Kg	UJ	N	n
DN39D	01NE28SD163	Primary Sample	acenaphthene	2300 *	µg/Kg	J	N	n
DN39F	01NE28SD263	QC Dup of 01NE28SD163	acenaphthene	2400	µg/Kg	J	N	n
100413-04	01NE28SD363	QA Dup of 01NE28SD163	acenaphthene	< 210	µg/Kg	UJ	N	n
DN39D	01NE28SD163	Primary Sample	naphthalene	9500 *	µg/Kg	J	N	n
DN39F	01NE28SD263	QC Dup of 01NE28SD163	naphthalene	9700	µg/Kg	J	N	n
100413-04	01NE28SD363	QA Dup of 01NE28SD163	naphthalene	< 210	µg/Kg	UJ	N	n

Matrix: SX

Lab ID	Field ID	Dup ID	Analyte	Result	Units	Q	Bias	RC
DN06R	01NE28SD151	Primary Sample	acenaphthene	1200 *	µg/Kg	J	N	n
DN06S	01NE28SD251	QC Dup of 01NE28SD151	acenaphthene	1500	µg/Kg	J	N	n
100302-04	01NE28SD351	QA Dup of 01NE28SD151	acenaphthene	< 23	µg/Kg	UJ	N	n
DN06R	01NE28SD151	Primary Sample	acenaphthylene	< 700 *	µg/Kg	UJ	N	n
DN06S	01NE28SD251	QC Dup of 01NE28SD151	acenaphthylene	< 680	µg/Kg	UJ	N	n
100302-04	01NE28SD351	QA Dup of 01NE28SD151	acenaphthylene	< 23	µg/Kg	UJ	N	n
DN06R	01NE28SD151	Primary Sample	benzo(k)fluoranthene	< 700 *	µg/Kg	UJ	N	n
DN06S	01NE28SD251	QC Dup of 01NE28SD151	benzo(k)fluoranthene	< 680	µg/Kg	UJ	N	n
100302-04	01NE28SD351	QA Dup of 01NE28SD151	benzo(k)fluoranthene	23	µg/Kg	J	N	n
DN06R	01NE28SD151	Primary Sample	fluorene	2400	µg/Kg	J	N	n
DN06S	01NE28SD251	QC Dup of 01NE28SD151	fluorene	2400	µg/Kg	J	N	n
100302-04	01NE28SD351	QA Dup of 01NE28SD151	fluorene	< 23	µg/Kg	UJ	N	n

Matrix: SX

Lab ID	Field ID	Dup ID	Analyte	Result	Units	Q	Bias	RC
DN38A	01NE29SD114	Primary Sample	fluoranthene	< 8.4	µg/Kg	UJ	L	b,n
DN38B	01NE29SD214	QC Dup of 01NE29SD114	fluoranthene	36	µg/Kg	J	N	n
100413-05	01NE29SD314	QA Dup of 01NE29SD114	fluoranthene	< 3.4	µg/Kg	UJ	N	n
DN38A	01NE29SD114	Primary Sample	phenanthrene	11	µg/Kg	J	L	b,n
DN38B	01NE29SD214	QC Dup of 01NE29SD114	phenanthrene	63	µg/Kg	J	N	n
100413-05	01NE29SD314	QA Dup of 01NE29SD114	phenanthrene	< 3.4	µg/Kg	UJ	N	n

Matrix: SX

Lab ID	Field ID	Dup ID	Analyte	Result	Units	Q	Bias	RC
DN06E	01NE28SD139	Primary Sample	2-methylnaphthalene	34	µg/Kg	J	N	n
DN06G	01NE28SD239	QC Dup of 01NE28SD139	2-methylnaphthalene	14	µg/Kg	J	N	n
100302-08	01NE28SD339	QA Dup of 01NE28SD139	2-methylnaphthalene	4	µg/Kg	J	N	n
DN06E	01NE28SD139	Primary Sample	acenaphthene	100	µg/Kg	J	N	n
DN06G	01NE28SD239	QC Dup of 01NE28SD139	acenaphthene	8.6	µg/Kg	UJ	N	n
100302-08	01NE28SD339	QA Dup of 01NE28SD139	acenaphthene	< 3.6	µg/Kg	UJ	N	n
DN06E	01NE28SD139	Primary Sample	anthracene	33	µg/Kg	J	N	n
DN06G	01NE28SD239	QC Dup of 01NE28SD139	anthracene	< 4.8	µg/Kg	UJ	N	n
100302-08	01NE28SD339	QA Dup of 01NE28SD139	anthracene	< 3.6	µg/Kg	UJ	N	n
DN06E	01NE28SD139	Primary Sample	benzo(a)anthracene	230	µg/Kg	J	N	n
DN06G	01NE28SD239	QC Dup of 01NE28SD139	benzo(a)anthracene	< 4.8	µg/Kg	UJ	N	n
100302-08	01NE28SD339	QA Dup of 01NE28SD139	benzo(a)anthracene	< 7.3	µg/Kg	UJ	N	n
DN06E	01NE28SD139	Primary Sample	benzo(a)pyrene	320	µg/Kg	J	N	n
DN06G	01NE28SD239	QC Dup of 01NE28SD139	benzo(a)pyrene	< 4.8	µg/Kg	UJ	N	n
100302-08	01NE28SD339	QA Dup of 01NE28SD139	benzo(a)pyrene	< 3.6	µg/Kg	UJ	N	n
DN06E	01NE28SD139	Primary Sample	benzo(b)fluoranthene	420	µg/Kg	J	N	n
DN06G	01NE28SD239	QC Dup of 01NE28SD139	benzo(b)fluoranthene	< 4.8	µg/Kg	UJ	N	n
100302-08	01NE28SD339	QA Dup of 01NE28SD139	benzo(b)fluoranthene	< 3.6	µg/Kg	UJ	N	n
DN06E	01NE28SD139	Primary Sample	benzo(g,h,I)perylene	71	µg/Kg	J	N	n
DN06G	01NE28SD239	QC Dup of 01NE28SD139	benzo(g,h,I)perylene	< 4.8	µg/Kg	UJ	N	n
100302-08	01NE28SD339	QA Dup of 01NE28SD139	benzo(g,h,I)perylene	< 3.6	µg/Kg	UJ	N	n
DN06E	01NE28SD139	Primary Sample	benzo(k)fluoranthene	300	µg/Kg	J	N	n
DN06G	01NE28SD239	QC Dup of 01NE28SD139	benzo(k)fluoranthene	< 4.8	µg/Kg	UJ	N	n
100302-08	01NE28SD339	QA Dup of 01NE28SD139	benzo(k)fluoranthene	< 3.6	µg/Kg	UJ	N	n
DN06E	01NE28SD139	Primary Sample	chrysene	380	µg/Kg	J	N	n
DN06G	01NE28SD239	QC Dup of 01NE28SD139	chrysene	< 4.8	µg/Kg	UJ	N	n
100302-08	01NE28SD339	QA Dup of 01NE28SD139	chrysene	< 7.3	µg/Kg	UJ	N	n
DN06E	01NE28SD139	Primary Sample	dibenzo(a,h)anthracene	29	µg/Kg	J	N	n
DN06G	01NE28SD239	QC Dup of 01NE28SD139	dibenzo(a,h)anthracene	< 4.8	µg/Kg	UJ	N	n
100302-08	01NE28SD339	QA Dup of 01NE28SD139	dibenzo(a,h)anthracene	< 3.6	µg/Kg	UJ	N	n
DN06E	01NE28SD139	Primary Sample	dibenzofuran	75	µg/Kg	J	N	n
DN06G	01NE28SD239	QC Dup of 01NE28SD139	dibenzofuran	< 4.8	µg/Kg	UJ	N	n
DN06E	01NE28SD139	Primary Sample	fluoranthene	890	µg/Kg	J	N	n,o
DN06G	01NE28SD239	QC Dup of 01NE28SD139	fluoranthene	< 4.8	µg/Kg	UJ	N	n
100302-08	01NE28SD339	QA Dup of 01NE28SD139	fluoranthene	< 3.6	µg/Kg	UJ	N	n
DN06E	01NE28SD139	Primary Sample	fluorene	100	µg/Kg	J	N	n
DN06G	01NE28SD239	QC Dup of 01NE28SD139	fluorene	7.2	µg/Kg	J	N	n
100302-08	01NE28SD339	QA Dup of 01NE28SD139	fluorene	< 3.6	µg/Kg	UJ	N	n
DN06E	01NE28SD139	Primary Sample	indeno(1,2,3,c,d)pyrene	89	µg/Kg	J	N	n
DN06G	01NE28SD239	QC Dup of 01NE28SD139	indeno(1,2,3,c,d)pyrene	< 4.8	µg/Kg	UJ	N	n
100302-08	01NE28SD339	QA Dup of 01NE28SD139	indeno(1,2,3,c,d)pyrene	< 3.6	µg/Kg	UJ	N	n

Matrix: SX

Lab ID	Field ID	Dup ID	Analyte	Result	Units	Q	Bias	RC
DN06E	01NE28SD139	Primary Sample	naphthalene	50	µg/Kg	J	N	n
DN06G	01NE28SD239	QC Dup of 01NE28SD139	naphthalene	14	µg/Kg	J	N	n
100302-08	01NE28SD339	QA Dup of 01NE28SD139	naphthalene	5.1	µg/Kg	J	N	n
DN06E	01NE28SD139	Primary Sample	phenanthrene	990	µg/Kg	J	N	n,o
DN06G	01NE28SD239	QC Dup of 01NE28SD139	phenanthrene	< 4.8	µg/Kg	UJ	N	n
100302-08	01NE28SD339	QA Dup of 01NE28SD139	phenanthrene	< 3.6	µg/Kg	UJ	N	n
DN06E	01NE28SD139	Primary Sample	pyrene	1000	µg/Kg	J	N	n,o
DN06G	01NE28SD239	QC Dup of 01NE28SD139	pyrene	< 4.8	µg/Kg	UJ	N	n
100302-08	01NE28SD339	QA Dup of 01NE28SD139	pyrene	< 3.6	µg/Kg	UJ	N	n

Matrix: SX

Lab ID	Field ID	Dup ID	Analyte	Result	Units	Q	Bias	RC
DN04I	01NE28SD125	Primary Sample	fluorene	140	µg/Kg	J	N	n
DN04M	01NE28SD225	QC Dup of 01NE28SD125	fluorene	280	µg/Kg	J	N	n
100302-03	01NE28SD325	QA Dup of 01NE28SD125	fluorene	52	µg/Kg	J	N	n
DN04I	01NE28SD125	Primary Sample	phenanthrene	49	µg/Kg	J	N	n
DN04M	01NE28SD225	QC Dup of 01NE28SD125	phenanthrene	110	µg/Kg	J	N	n
100302-03	01NE28SD325	QA Dup of 01NE28SD125	phenanthrene	16	µg/Kg	J	N	n

Matrix: SX

Lab ID	Field ID	Dup ID	Analyte	Result	Units	Q	Bias	RC
DN05A	01NE28SD153	Primary Sample	acenaphthene	1300	µg/Kg	J	N	n
DN05G	01NE28SD253	QC Dup of 01NE28SD153	acenaphthene	1200	µg/Kg	J	N	n
100302-05	01NE28SD353	QA Dup of 01NE28SD153	acenaphthene	< 14	µg/Kg	UJ	N	n
DN05A	01NE28SD153	Primary Sample	benzo(a)anthracene	< 670	µg/Kg	UJ	N	n
DN05G	01NE28SD253	QC Dup of 01NE28SD153	benzo(a)anthracene	< 570	µg/Kg	UJ	N	n
100302-05	01NE28SD353	QA Dup of 01NE28SD153	benzo(a)anthracene	24	µg/Kg	J	N	m,n
DN05A	01NE28SD153	Primary Sample	chrysene	< 670	µg/Kg	UJ	N	n
DN05G	01NE28SD253	QC Dup of 01NE28SD153	chrysene	< 570	µg/Kg	UJ	N	n
100302-05	01NE28SD353	QA Dup of 01NE28SD153	chrysene	48	µg/Kg	J	N	n
DN05A	01NE28SD153	Primary Sample	fluorene	1600	µg/Kg	J	N	n
DN05G	01NE28SD253	QC Dup of 01NE28SD153	fluorene	1400	µg/Kg	J	N	n
100302-05	01NE28SD353	QA Dup of 01NE28SD153	fluorene	< 14	µg/Kg	UJ	N	n
DN05A	01NE28SD153	Primary Sample	naphthalene	1600	µg/Kg	J	N	n
DN05G	01NE28SD253	QC Dup of 01NE28SD153	naphthalene	1400	µg/Kg	J	N	n
100302-05	01NE28SD353	QA Dup of 01NE28SD153	naphthalene	< 14	µg/Kg	UJ	N	n

Results for these samples have been flagged "n".

The QA and QC samples for 01NE28SD139 are in agreement for most target compounds; the primary sample may be incorrectly identified.

7.8 QA / QC Triplicates (cont.)

The primary and QC sample for 01NE28D153 exhibited good precision; the QA sample may be incorrectly identified.

7.9 Additional Comments

Some samples required dilutions to accurately quantitate several compounds (see section 7.7). All reporting limits and concentrations were adjusted for the dilutions. Nondetected results and compounds within the calibration range should be used from the original analysis, and compounds outside the calibration range (flagged o) should be used from the appropriate dilutions.

Overall Assessment

Minor data quality deficiencies were found, resulting in a significant amount of qualified data . No data were rejected. Most qualifications made were due to low surrogate recovery and poor precision among the QC/QA triplicate sets indicating matrix effect. Tables 4 through 14 list all qualified sample results, by data quality indicator and analysis type. Results that were qualified as estimated or nondetected are useable for limited purposes. All other data generated by this method should be considered useable as reported.

8.0 Semivolatile Organics

The following number of samples were prepared and analyzed by the listed methods:

Laboratory: ARI

# of Samples	Matrix	Prep Method	Analysis Method	Reporting Units
3	WX	SW3520C	SW8270	µg/L

Laboratory: SAS

# of Samples	Matrix	Prep Method	Analysis Method	Reporting Units
1	WX	SW3510	SW8270C	µg/L

Samples analyzed by this method are identified in Table 1.

8.1 Holding Time

All samples were prepared and analyzed within the required technical holding time.

8.2 Surrogates

All surrogate recoveries were within the required limits.

8.3 Blanks

Method blanks were analyzed at the minimum required frequency. All target compounds were reported as nondetected in all cases except the following:

Labcode: ARI
MB Batch ID: SV0827B-01
Matrix: WQ

Analyte	Result	PQL	Units	Q [1]	Bias	RC
bis(2-ethylhexyl)phthalate	1.9	1				

Affected Samples: Sample ID	Field ID	Result	PQL	Units	Q [1]	Bias	RC
DN53C	01NE16GW101	2.5	1	µg/L	B	H	a
DN53D	01NE16GW201	2.2	1	µg/L	B	H	a
DN53E	01NE16GW102	1.4	1	µg/L	B	H	a

[1] According to the National Functional Guidelines for Organic Data Review, any compound detected in a blank that was also detected in an associated sample is qualified if the sample result is less than 10x the blank concentration for common laboratory contaminants, or 5x for all other analytes. Flagging for this project is modified to "B" at the amount found in the sample.

Field blanks were not collected for analysis by this method.

8.4 Matrix Spike/Matrix Spike Duplicates

MS/MSDs were analyzed at the required frequency. All recoveries and RPDs were within the required limits.

8.5 Laboratory Control Samples

Laboratory control samples were analyzed at the required frequency. All recoveries and RPDs were within the required limits.

8.6 Quantitation Limits

The practical quantitation limits (PQLs) achieved by the laboratories were acceptable relative to the estimated quantitation limits (EQL) suggested by this method for aqueous samples.

8.7 QA / QC Triplicates

One set of QA / QC triplicate samples was collected for analysis by this method. All results were in agreement.

8.8 Overall Assessment

Minor data quality deficiencies were found, resulting in an insignificant amount of qualified data. No data were rejected. All data were qualified due to low level bis(2-ethylhexyl)phthalate contamination in the method blank. Tables 4 through 14 list all qualified sample results, by data quality indicator and analysis type. Results that were qualified as estimated or nondetected are useable for limited purposes. All other data generated by this method should be considered useable as reported.

9.0 Volatile Organics

The following number of samples were prepared and analyzed by the listed methods:

Laboratory: ARI

# of Samples	Matrix	Prep Method	Analysis Method	Reporting Units
27	WX	METHOD	SW8260	µg/L
11	SX	METHOD	SW8260	µg/Kg

Laboratory: SAS

# of Samples	Matrix	Prep Method	Analysis Method	Reporting Units
4	WX	SW5030	SW8260B	µg/L
1	SX	SW5035	SW8260B	µg/Kg

Samples analyzed by this method are identified in Table 1.

9.1 Holding Time

All samples were analyzed within the required technical holding time.

9.2 Surrogates

All surrogate recoveries were within the required limits.

9.3 Blanks

Method blanks were analyzed at the minimum required frequency. All target compounds were reported as nondetected in all cases except the following:

Labcode: ARI
Date Analyzed: 8/24/01
MB Batch ID: F5082401A
Matrix: SQ

Analyte	Result	PQL	Units	Q[1]	Bias	RC
bromomethane	110	62	µg/Kg			

Affected Samples:	Sample ID	Field ID						
	DN07N	01NE07SS125	98	62	µg/Kg	B	H	a
	DN07P	01NE07SS127	170	75	µg/Kg	B	H	a
	DN07Q	01NE07SD105	400	200	µg/Kg	B	H	a
	DN07R	01NE07SD104	170	150	µg/Kg	B	H	a

Labcode: ARI
Date Analyzed: 8/27/01
MB Batch ID: F5082701A
Matrix: SQ

Analyte	Result	PQL	Units	Q[1]	Bias	RC
bromomethane	240	110	µg/Kg			

Affected Samples:	Sample ID	Field ID						
	DN07O	01NE07SS126	200	110	µg/Kg	B	H	a

Labcode: ARI
Date Analyzed: 8/30/01
MB Batch ID: F5083001A
Matrix: SQ

Analyte	Result	PQL	Units	Q[1]	Bias	RC
bromomethane	89	29	µg/Kg			

Affected Samples:	Sample ID	Field ID						
	DN68C	01NE09SD108	360	180	µg/Kg	B	H	a
	DN68L	01NE00TB111	90	50	µg/Kg	B	H	a

[1] According to the National Functional Guidelines for Organic Data Review, any compound detected in a blank that was also detected in an associated sample is qualified if the sample result is less than 10x the blank concentration for common laboratory contaminants, or 5x for all other analytes. Flagging for this project is modified to "B" at the amount found in the sample.

9.3 Blanks (cont.)

One methanol trip blank and nine water trip blanks were collected for analysis by this method. All target compounds were reported as nondetected in all cases except the following:

Laboratory : **ARI**
Date Collected: 8/24/01

Field Blank ID		Analyte	Result	Units
01NE00TB111	Trip Blank			
		bromomethane	90	µg/Kg
		toluene	61	µg/Kg

No sample results were affected by the above blank result

Date Collected: 8/27/01

Field Blank ID		Analyte	Result	Units
01NE00TB118	Trip Blank			
		chloromethane	3.2	µg/L

No sample results were affected by the above blank result

Laboratory : **SAS**
Date Collected: 8/23/01

Field Blank ID		Analyte	Result	Units
01NE00TB110	Trip Blank			
		chloromethane	2.4	µg/L
		trichlorofluoromethane	0.16	µg/L
		acetone	0.72	µg/L
		tetrachloroethylene	0.18	µg/L

Affected samples:			Qualified Result	Bias	RC	
100418-02	01NE09SW307	acetone	0.73 B	H	k	µg/L

Date Collected: 8/27/01

Field Blank ID		Analyte	Result	Units
01NE00TB117	Trip Blank			
		methylene chloride	0.42	µg/L
		chloroform	0.091	µg/L
		tetrachloroethylene	0.24	µg/L
		styrene	0.34	µg/L

No sample results were affected by the above blank result

[1] According to the National Functional Guidelines for Organic Data Review, any targert analyte detected in a field blank that was also detected in an associated sample is qualified if the sample result is less than 10x the blank concentration for common laboratory contaminants, or 5x for all other analytes. Flagging for this project is modified to "B" at the amount found in the sample

9.4 Matrix Spike/Matrix Spike Duplicates

MS/MSDs were analyzed at the required frequency. All recoveries and RPDs were within the required limits except the following:

Laboratory: SAS
Prep Date: 9/7/01
Prep Batch ID: ITS1245
Spiked Sample: 01NE09SD313
Matrix: SX
Dil Factor: 1

Analyte	Sample Result µg/Kg	Spike Conc. µg/Kg	% Recovery MS	% Recovery MSD	Limits [1]	MS/MSD RPD	Limit [1]	Q [2]	Bias	RC
toluene	16	12	317	480	75 - 125	41	30	J/UJ	N	c f

Associated Samples: 01NE09SD313 (100492-13)

[1] Laboratory-established limits

[2] If the MS or MSD recovery is < LCL apply J to all detected results, apply UJ to all non-detects; if the MS or MSD recovery is > UCL apply J to all detected results; if the MS/MSD RPD is > UCL apply J to all detected results, apply UJ to all non-detects. For this review, qualifiers apply to the spiked sample only

9.5 Laboratory Control Samples

Laboratory control samples were analyzed at the required frequency. All recoveries and RPDs were within the required limits.

9.6 Quantitation Limits

The practical quantitation limits (PQLs) achieved by the laboratories were acceptable relative to the estimated quantitation limits (EQL) suggested by this method for aqueous and soil matrix samples. Project-specific reporting limits for water matrix were met by the laboratories. Soil limits were not specified; however, reporting limits varied significantly from sample to sample at ARI and were much higher than those reported at SAS. Nine detected results were below the quantitation limit, and are flagged "J". Results below the reporting limit are considered qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in precision near the limit of detection.

9.8 QA / QC Triplicates

Three sets of QA / QC triplicate samples were collected for analysis by this method. A major disagreement of greater than five times (when one result is below the reporting limit) or ten times (when one result is nondetect) was found for the following primary, QC and QA triplicate sets:

Matrix: SX

Lab ID	Field ID		Analyte		Result	Units	Q	Bias	RC
DN68G	01NE09SD113	Primary Sample	2-butanone	<	1400	µg/Kg	UJ	N	n
DN68H	01NE09SD213	QC Dup of 01NE09SD113	2-butanone	<	490	µg/Kg	UJ	N	n
100492-13	01NE09SD313	QA Dup of 01NE09SD113	2-butanone		56	µg/Kg	J	N	n
DN68G	01NE09SD113	Primary Sample	carbon disulfide	<	270	µg/Kg	UJ	N	n
DN68H	01NE09SD213	QC Dup of 01NE09SD113	carbon disulfide	<	98	µg/Kg	UJ	N	n
100492-13	01NE09SD313	QA Dup of 01NE09SD113	carbon disulfide		20	µg/Kg	J	N	n
DN68G	01NE09SD113	Primary Sample	chloromethane	<	270	µg/Kg	UJ	N	n
DN68H	01NE09SD213	QC Dup of 01NE09SD113	chloromethane	<	98	µg/Kg	UJ	N	n
100492-13	01NE09SD313	QA Dup of 01NE09SD113	chloromethane		1.2	µg/Kg	J	N	m,n
DN68G	01NE09SD113	Primary Sample	toluene	<	270	µg/Kg	UJ	N	n
DN68H	01NE09SD213	QC Dup of 01NE09SD113	toluene	<	98	µg/Kg	UJ	N	n
100492-13	01NE09SD313	QA Dup of 01NE09SD113	toluene		16	µg/Kg	J	N	c,f,n

Matrix: WX

Lab ID	Field ID		Analyte		Result	Units	Q	Bias	RC
DN88A	01NE07WP102	Primary Sample	naphthalene	<	5	µg/L	UJ	N	n
DN88B	01NE07WP202	QC Dup of 01NE07WP102	naphthalene	<	5	µg/L	UJ	N	n
100553-01	01NE07WP302	QA Dup of 01NE07WP102	naphthalene		0.17	µg/L	J	N	m,n

Results for these samples have been flagged "n".

9.9 Additional Comments

Three of three VOA vials were received at Analytical Resources, Inc. (ARI) with tiny bubbles for 01NE00TB108, 01NE09MW103, 01NE00TB116, 01NE00TB117 and 01NE00TB118; results for all target compounds are qualified as estimated.

Overall Assessment

Minor data quality deficiencies were found, resulting in some qualified data. No data were rejected. Most data were qualified due low-level bromomethane method blank contamination. Tables 4 through 14 list all qualified sample results, by data quality indicator and analysis type. Results that were qualified as estimated or nondetected are useable for limited purposes. All other data generated by this method should be considered useable as reported.

10.0 Metals

The following number of samples were prepared and analyzed by the listed methods:

Laboratory: ARI

# of Samples	Matrix	Prep Method	Analysis Method	Reporting Units
119	SX	SW3050B	SW6010B	mg/Kg
36	SX	SW7471A	SW7471A	mg/Kg
33	SX	SW3050B	E200.8	mg/Kg
13	SX	SW3050	SW6010B	mg/Kg
28	WX	SW3010A	SW6010B	µg/L
28	WX	SW7060A	SW7060A	µg/L
28	WX	SW7470A	SW7470A	µg/L
28	WX	METHOD	SW7740	µg/L
28	WX	SW3020A	SW7841	µg/L
28	WX	SW3020A	SW7421	µg/L
4	WX	NONE	SW6010B	mg/L
4	WX	SW3010A	SW6010B	mg/L

Laboratory: SAS

# of Samples	Matrix	Prep Method	Analysis Method	Reporting Units
14	SX	SW3051	SW6010	mg/Kg
3	SX	SW7471	SW7471	mg/Kg
1	SX	SW3051	SW6020	mg/Kg
3	WX	SW3005	SW6010	mg/L
3	WX	SW7470	SW7470	mg/L

Samples analyzed by these methods are identified in Table 1.

10.1 Holding Time

All samples were analyzed within the required technical holding time.

10.2 Blanks

Method blanks were analyzed at the minimum required frequency. All target analytes were reported as nondetected in all cases except the following:

Labcode: SAS
Prep Date: 9/7/01
MB Batch ID: TP983
Matrix: WQ

Analyte			Result	PQL	Units	Q[1]	Bias	RC
silver			0.015	0.05	mg/L			
Affected Samples:	**Sample ID**	**Field ID**						
	100418-02	01NE09SW307	0.029	0.050	mg/L	B	H	a

[1] According to the National Functional Guidelines for Inorganic Data Review, any analyte detected in a blank that was also detected in an associated sample is qualified if the sample result is less than 5X the blank concentration. Flagging for this project is modified to "B" at the amount found in the sample.

Field blanks were not collected for analysis by these methods.

10.3 Matrix Spikes

Matrix spikes were analyzed at the required frequency. All recoveries were within the required limits except the following:

Laboratory: SAS
Prep Date: 8/27/01
Prep Batch ID: ZT477
Spiked Sample: 01NE29SW317
Matrix: WX

Analyte	Sample Result mg/L	Spike Conc. mg/L	% Recovery MS	% Recovery MSD	Limits [1]	MS/MSD RPD	Limit [1]	Q [2]	Bias	RC
mercury	< 0.0002	0.002	40	NA	75 - 125	NA	20	J/UJ	L	c

Associated Samples: 01NE29SW317 (100413-06)

Laboratory: SAS
Prep Date: 9/7/01
Prep Batch ID: SP985
Spiked Sample: 01NE16SS365
Matrix: SX

Analyte	Sample Result mg/Kg	Spike Conc. mg/Kg	% Recovery MS	% Recovery MSD	Limits [1]	MS/MSD RPD	Limit [1]	Q [2]	Bias	RC
lead	180	198.1	201	NA	75 - 125	NA	35	J/none	H	c

Associated Samples: 01NE16SS365 (100492-08)

Laboratory: ARI
Prep Date: 8/31/01
Prep Batch ID: DN40
Spiked Sample: 01NE29SD128
Matrix: SX

Analyte	Sample Result mg/Kg	Spike Conc. mg/Kg	% Recovery MS	% Recovery MSD	Limits [1]	MS/MSD RPD	Limit [1]	Q [2]	Bias	RC
antimony	< 7	270	18.9	NA	75 - 125	NA	20	J/UR	L	c

Associated Samples:
01NE29SD128 (DN40E) 01NE29SD129 (DN40F)
01NE29SD127 (DN40M) 01NE29SD126 (DN40N)

Laboratory: ARI
Prep Date: 9/4/01
Prep Batch ID: DN76
Spiked Sample: 01NE09SD113
Matrix: SX

Analyte	Sample Result mg/Kg	Spike Conc. mg/Kg	% Recovery MS	% Recovery MSD	Limits [1]	MS/MSD RPD	Limit [1]	Q [2]	Bias	RC
antimony	< 30	1030	41.7	NA	75 - 125	NA	20	J/UJ	L	c

Associated Samples:

01NE09SD107	(DN76D)	01NE09SD108	(DN76E)
01NE30SS101	(DN76F)	01NE30SD101	(DN76G)
01NE30SS103	(DN76H)	01NE30SS102	(DN76I)
01NE09SD109	(DN76J)	01NE09SD213	(DN76K)
01NE24SD114	(DN76L)	01NE24SD115	(DN76M)
01NE30SS201	(DN76O)	01NE09SD113	(DN76P)

[1] Laboratory-established limits

[2] According to the Functional Guidelines for Inorganic Data Review, for all samples in the same preparation batch; if the MS or MSD recovery is > 30% and < LCL apply J to all detected results, apply UJ to all non-detects; if the MS or MSD recovery is > UCL apply J to all detected results; if the recovery is < 30%, apply J to all detected results, apply R to all nondetects; if the MS/MSD RPD is > UCL apply J to all detected results, apply UJ to all non-detects

10.4 Sample Duplicates

Sample duplicates were also analyzed. Precision between the primary and duplicate sample results was acceptable in all cases except the following:

Analyte	*Primary Sample* 01NE21SS369 100492-04 SX	*Replicate Sample* 01NE21SS369 100492R04 SX	RPD	Units	RPD Limit [1]	Q [2]	Bias	RC
lead	19	12	45	mg/Kg	35	J / UJ	N	f

Analyte	*Primary Sample* 01NE24SW314 100492-01 WX	*Replicate Sample* 01NE24SW314 100492R01 WX	RPD	Units	RPD Limit [1]	Q [2]	Bias	RC
lead	0.23	0.16	36	mg/L	20	J / UJ	N	f

Analyte	*Primary Sample* 01NE28SD311 100302-02 SX	*Replicate Sample* 01NE28SD311 100302R02 SX	RPD	Units	RPD Limit [1]	Q [2]	Bias	RC
zinc	62	43	36	mg/Kg	35	J / UJ	N	f

[1] Laboratory-established Limits

[2] According to the Functional Guidelines for Inorganic Data Review, If the duplicate RPD exceeds the UCL, flag detected results J for all associated samples of similar matrix

10.5 Serial Dilutions

Serial dilutions were not reported.

10.6 Laboratory Control Samples

Laboratory control samples were analyzed at the required frequency. All recoveries and RPDs were within the required limits.

10.7 Quantitation Limits

The practical quantitation limits (PQLs) achieved by ARI were were acceptable relative to the estimated quantitation limits (EQL) suggested by these methods for aqueous and soil matrix samples. Project specific reporting limits were not submitted for soil matrix. Method detection limits exceeded required reporting limits by two times for thallium in two samples at SAS. Thirty detected results were below the quantitation limit, and are flagged "J". Results below the reporting limit are considered qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in precision near the limit of detection.

10.8 QA / QC Triplicates

Eighteen sets of QA / QC triplicate samples were collected for analysis by these methods. A disagreement of greater than two times (soil) was found for the following target analytes in the primary, QC and QA triplicate sets:

Matrix: SX

Lab ID	Field ID	Dup ID	Analyte	Result	Units	Q	Bias	RC
DN04I	01NE28SD125	Primary Sample	lead	7	mg/Kg			
DN04M	01NE28SD225	QC Dup of 01NE28SD125	lead	5	mg/Kg			
100302-03	01NE28SD325	QA Dup of 01NE28SD125	lead	13	mg/Kg			

Matrix: SX

Lab ID	Field ID	Dup ID	Analyte	Result	Units	Q	Bias	RC
DN05A	01NE28SD153	Primary Sample	lead	32	mg/Kg			
DN05G	01NE28SD253	QC Dup of 01NE28SD153	lead	60	mg/Kg			
100302-05	01NE28SD353	QA Dup of 01NE28SD153	lead	23	mg/Kg			

Matrix: SX

Lab ID	Field ID	Dup ID	Analyte	Result	Units	Q	Bias	RC
DN38A	01NE29SD114	Primary Sample	lead	17	mg/Kg			
DN38B	01NE29SD214	QC Dup of 01NE29SD114	lead	14	mg/Kg			
100413-05	01NE29SD314	QA Dup of 01NE29SD114	lead	30	mg/Kg			

Matrix: WX

Lab ID	Field ID	Dup ID	Analyte	Result	Units	Q	Bias	RC
DN53H	01NE09SW107	Primary Sample	silver	< 3	µg/L	U		
DN53F	01NE09SW207	QC Dup of 01NE09SW107	silver	< 3	µg/L	U		
100418-02	01NE09SW307	QA Dup of 01NE09SW107	silver	0.03	mg/L	B	H	a

Matrix: SX

Lab ID	Field ID	Dup ID	Analyte	Result	Units	Q	Bias	RC
DN68A	01NE21SS169	Primary Sample	arsenic	< 30	mg/Kg	U		
DN68B	01NE21SS269	QC Dup of 01NE21SS169	arsenic	< 30	mg/Kg	U		
100492-04	01NE21SS369	QA Dup of 01NE21SS169	arsenic	6	mg/Kg	J	N	m

Matrix: WX

Lab ID	Field ID	Dup ID	Analyte	Result	Units	Q	Bias	RC
DN73L	01NE24SW114	Primary Sample	arsenic	< 1	µg/L	U		
DN73K	01NE24SW214	QC Dup of 01NE24SW114	arsenic	< 1	µg/L	U		
100492-01	01NE24SW314	QA Dup of 01NE24SW114	arsenic	0.005	mg/L	J	N	m
DN36A	01NE29SW117	Primary Sample	lead	< 1	µg/L	U		
DN36B	01NE29SW217	QC Dup of 01NE29SW117	lead	< 1	µg/L	U		
100413-06	01NE29SW317	QA Dup of 01NE29SW117	lead	0.006	mg/L	J	N	m

Matrix: WX

Lab ID	Field ID	Dup ID	Analyte		Result	Units	Q	Bias	RC
DN73L	01NE24SW114	Primary Sample	selenium	<	2	µg/L	U		
DN73K	01NE24SW214	QC Dup of 01NE24SW114	selenium	<	2	µg/L	U		
100492-01	01NE24SW314	QA Dup of 01NE24SW114	selenium		0.01	mg/L	J	N	m
DN73L	01NE24SW114	Primary Sample	thallium	<	1	µg/L	U		
DN73K	01NE24SW214	QC Dup of 01NE24SW114	thallium	<	1	µg/L	U		
100492-01	01NE24SW314	QA Dup of 01NE24SW114	thallium		0.007	mg/L	J	N	m

Matrix: SX

Lab ID	Field ID	Dup ID	Analyte		Result	Units	Q	Bias	RC
DN76P	01NE09SD113	Primary Sample	antimony	<	30	mg/Kg	UJ	L	c
DN76K	01NE09SD213	QC Dup of 01NE09SD113	antimony	<	30	mg/Kg	UJ	L	c
100492-13	01NE09SD313	QA Dup of 01NE09SD113	antimony		4.6	mg/Kg	J	N	m
DN76P	01NE09SD113	Primary Sample	cadmium		1	mg/Kg			
DN76K	01NE09SD213	QC Dup of 01NE09SD113	cadmium	<	1	mg/Kg	U		
100492-13	01NE09SD313	QA Dup of 01NE09SD113	cadmium	<	6.2	mg/Kg	U		
DN76P	01NE09SD113	Primary Sample	sodium		210	mg/Kg			
DN76K	01NE09SD213	QC Dup of 01NE09SD113	sodium		290	mg/Kg			
100492-13	01NE09SD313	QA Dup of 01NE09SD113	sodium	<	1200	mg/Kg	U		

According to project guidelines, if there is > 2X difference (detected results > RL) or > 3X difference (when one result is < RL) or > 5X difference (when one result is nondetected); it is considered a disagreement

No data were qualified on the basis of field duplicate precision.

10.8 QA / QC Triplicates

A major disagreement of greater than three times (soil) was found for the following target analytes in the primary, QC and QA triplicate sets:

Matrix: SX

Lab ID	Field ID	Dup ID	Analyte	Result	Units	Q	Bias	RC
DN40C	01NE29SD125	Primary Sample	lead	9	mg/Kg	J	N	n
DN40D	01NE29SD225	QC Dup of 01NE29SD125	lead	7	mg/Kg	J	N	n
100413-01	01NE29SD325	QA Dup of 01NE29SD125	lead	25	mg/Kg	J	N	n
DN76F	01NE30SS101	Primary Sample	silver	< 0.7	mg/Kg	UJ	N	n
DN76O	01NE30SS201	QC Dup of 01NE30SS101	silver	< 0.6	mg/Kg	UJ	N	n
100492-09	01NE30SS301	QA Dup of 01NE30SS101	silver	14	mg/Kg	J	N	n

Matrix: WX

Lab ID	Field ID	Dup ID	Analyte	Result	Units	Q	Bias	RC
DN73K	01NE24SW214	QC Dup of 01NE24SW114	lead	1	µg/L	J	N	n
DN73L	01NE24SW114	Primary Sample	lead	< 1	µg/L	UJ	N	n
100492-01	01NE24SW314	QA Dup of 01NE24SW114	lead	0.23	mg/L	J	N	f,n
DN53F	01NE09SW207	QC Dup of 01NE09SW107	lead	< 1	µg/L	UJ	N	n
DN53H	01NE09SW107	Primary Sample	lead	< 1	µg/L	UJ	N	n
100418-02	01NE09SW307	QA Dup of 01NE09SW107	lead	0.02	mg/L	J	N	n

Results for these samples have been flagged as estimated.

10.9 Additional Comments

Due to low temperatures (< 2.0°C), all target analytes for water samples 01NE07SW105, 01NE07WP101, 01NE09MW103, 01NE09SW109, 01NE09SW112 and 01NE09WP102 are qualified as estimated.

Water samples 01NE35GW101, 01NE35GW102, 01NE35GW103, and 01NE35GW104 were analyzed for dissolved metals for iron and magnesium only. All associated quality control was within the established limits.

Overall Assessment

Minor data quality deficiencies were found, resulting in a significant amount of qualified data. Some data were rejected. The majority of rejected data was due to low matrix spike recovery for antimony, indicating matrix effect. Most data were qualified due to poor matrix spike accuracy and poor QA/QC triplicate precision, indicating matrix effect. Tables 3 through 14 list all qualified sample results, by data quality indicator and analysis type. Results that were rejected are unuseable for any purpose. Results that were qualified as estimated or nondetected are useable for limited purposes. All other data generated by this method should be considered useable as reported.

11.0 Total Organic Carbon

The following number of samples were prepared and analyzed by the listed method:

Laboratory: ARI

# of Samples	Matrix	Prep Method	Analysis Method	Reporting Units
91	SX	METHOD	Plumb, 1981	PERCENT

Samples analyzed by this method are identified in Table 1.

11.1 Holding Time

All samples were analyzed within the required technical holding time.

11.2 Blanks

Method blanks were analyzed at the minimum required frequency. All total organic carbon results were reported as nondetected.

Field blanks were not collected for analysis by these methods.

11.3 Matrix Spike/Matrix Spike Duplicates

MS/MSDs were analyzed at the required frequency. All recoveries and RPDs were within the required limits.

11.4 Laboratory Control Samples

Laboratory control samples were analyzed at the required frequency. All recoveries were within the required limits.

11.5 Quantitation Limits

The practical quantitation limits (PQLs) achieved by the laboratory was acceptable relative to the estimated quantitation limits (EQL) suggested by this method for aqueous and soil samples. All detected results reported were above the quantitation limit.

11.6 QA / QC Triplicates

QA / QC triplicate samples were not collected for analysis by this method.

11.7 Overall Assessment

No data quality deficiencies were found; therefore, all data generated by this method should be considered useable as reported.

12.0 References

"USEPA Test Methods for Evaluating Solid Waste Physical/Chemical Methods", July 1992 (SW-846)

"Methods for Chemical Analysis of Water and Wastes", March 1983 (EPA-600)

"National Functional Guidelines for Organic Data Review", October 1999

"National Functional Guidelines for Inorganic Data Review", February, 1994

"State of Alaska Method AK101, Determination of Gasoline Range Organics"

"State of Alaska Method AK102, Determination of Diesel Range Organics"

"State of Alaska Method AK103, Determination of Residual Range Organics"

"USACOE Chemical Quality Assurance for HTRW Projects", October 1997

Appendix A

Qualifier Definitions

B	The sample result is less than 5 or 10 times (for common laboratory contaminants) the associated blank contamination.
U	The analyte was analyzed for, but was not detected above the reported quantitation limit.
UJ	The analyte was not detected above the reported quantitation limit. However, the reported quantitation is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J/none	Sample results for the analyte are estimated for positive results; results reported below the quantitation limit are not qualified (high bias).
J/UJ	Sample results for the analyte are estimated for both positive results and results reported below the quantitation limit (low bias).
R/UR	The sample results are rejected for both positive results and results reported below the quantitation limit due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Appendix B

Acronyms

ARI -	Analytical Resources, Inc., Seattle, Washington
CRQL -	Contract Required Quantitation Limit
H -	High Bias
L -	Low Bias
LCL -	Lower Control Limit
LCS/LCSD -	Laboratory Control Sample/Laboratory Control Sample Duplicate
MB -	Method Blank
MDL -	Method Detection Limit
MS/MSD -	Matrix Spike/Matrix Spike Duplicate
N -	No Bias Determined
NA -	Not Applicable
NE -	Not Established
NR -	Not Reported
PQL -	Practical Quantitation Limit
Q -	Qualifier
QA -	Quality Assurance
QC -	Quality Control
RPD -	Relative Percent Difference
RRL -	Required Reporting Limit
RSD -	Relative Standard Deviation
RTHT -	Required Technical Holding Time
SAS -	Sound Analytical Services, Inc., Tacoma, Washington
SD -	Sample Duplicate
SE -	Sediment Matrix
SO -	Soil Matrix
SW-846 -	EPA Test Methods for Evaluating Solid Waste
SX -	Soil
UCL -	Upper Control Limit
WX -	Groundwater



Appendix C

Data Summary Table

QUALIFIER REASON CODES

a - The analyte was found in the method blank

a- - Negative drift observed in instrument calibration blanks

b - Surrogate spike recovery outside control limits

c - Matrix Spike/Matrix Spike Duplicate (MS/MSD) recovery outside control limits

d - Laboratory Control Sample (LCS) recovery outside control limits

e - Holding time exceeded

f - MS/LCS sample duplicate failed precision criteria

h - Second column results indicate that the environmental results were not confirmed

i - Instrument Calibration outside control limits

k - The analyte was found in the field blank

m - Numerical value between the MDL and PQL

n - Field duplicate precision problem

o - Result reported exceeds calibration range

p - Sample was not properly collected, preserved or shipped

s - Internal Standard outside control limits

t - Sample temperature outside acceptance criteria

(Note: Where multiple qualifiers have been applied the first qualifier corresponds to the first reason code)

BTEX

DATA SUMMARY TABLE

Sample ID	100413-06			100413-07						
Field ID	01NE29SW317			01NE00TB107						
Matrix	WX			WX						
Date Collected	8/20/01			8/20/01						
Units	mg/L			mg/L						
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**				
benzene	0.0005	U		0.0005	UJ	p				
ethylbenzene	0.001	U		0.001	UJ	p				
m,p-xylene	0.002	U		0.002	UJ	p				
o-xylene	0.001	U		0.001	UJ	p				
toluene	0.001	U		0.001	UJ	p				

BTE

DATA SUM[illegible] TABLE

Sample ID	100492-02			100492-03			100492-04			100492-07			100492-11			100492-14		
Field ID	01NE21SW313			01NE00TB112			01NE21SS369			01NE24SD314			01NE31SS321			01NE00TB106		
Matrix	WX			WX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/23/01		
Units	mg/L			mg/L			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
benzene	0.0005	U		0.0005	U		0.055	UJ	b	0.0074	UJ	b	0.011	UJ	b	0.02	U	
ethylbenzene	0.001	U		0.001	U		0.11	UJ	b	0.015	UJ	b	0.021	UJ	b	0.04	U	
m,p-xylene	0.002	U		0.002	U		0.22	UJ	b	0.03	UJ	b	0.043	UJ	b	0.08	U	
o-xylene	0.001	U		0.001	U		0.11	UJ	b	0.015	UJ	b	0.021	UJ	b	0.04	U	
toluene	0.001	U		0.001	U		0.11	UJ	b	0.015	UJ	b	0.021	UJ	b	0.04	U	

DATA SUMMARY TABLE

Sample ID	99805-01			99805-02						
Field ID	01NE35GW301			01NE35TB302						
Matrix	WX			WX						
Date Collected	7/25/01			7/25/01						
Units	µg/L			µg/L						
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**				
benzene	0.4	UJ	t	0.4	UJ	t				
ethylbenzene	0.4	UJ	t	0.4	UJ	t				
m,p-xylene	0.8	UJ	t	0.8	UJ	t				
o-xylene	0.4	UJ	t	0.4	UJ	t				
toluene	0.4	UJ	t	0.4	UJ	t				

Sample ID	DK21A			DK21C						
Field ID	01NE35GW102			01NE35TB101						
Matrix	WX			WX						
Date Collected	7/24/01			7/24/01						
Units	µg/L			µg/L						
Analyte	RESULT	Q	RC	RESULT	Q	RC				
benzene	1	U		1	U					
ethylbenzene	1	U		1	U					
m,p-xylene	1	U		1	U					
o-xylene	1	U		1	U					
toluene	1	U		1	U					

BTEX

DATA SUMMARY TABLE

Sample ID	DK48A			DK48B			DK48C			DK48D			DK48E			
Field ID	01NE35GW101			01NE35GW103			01NE35GW104			01NE35GW201			01NE35TB102			
Matrix	WX			WX			WX			WX			WX			
Date Collected	7/25/01			7/25/01			7/26/01			7/25/01			7/25/01			
Units	µg/L			µg/L			µg/L			µg/L			µg/L			
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	
benzene	1	U		1	U		1	U		1	U		1	U		
ethylbenzene	1	U		1	U		1	U		1	U		1	U		
m,p-xylene	1	U		1	U		1	U		1	U		1	U		
o-xylene	1	U		1	U		1	U		1	U		1	U		
toluene	1	U		1	U		1	U		1	U		1	U		

DATA SUMM. . TABLE

Sample ID	DN07K			DN07L			DN07M								
Field ID	01NE06SD116			01NE06SD117			01NE00TB101								
Matrix	SX			SX			SX								
Date Collected	8/18/01			8/18/01			8/18/01								
Units	µg/Kg			µg/Kg			µg/Kg								
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**						
benzene	11	U		0.67	U		5	U							
ethylbenzene	12	B	k	0.88	B	k	8.4								
m,p-xylene	44	B	k	3.3	B	k	31								
o-xylene	14	B	k	1	B	k	10								
toluene	78	B	k	4.7	B	k	46								

DATA SUMMARY TABLE

Sample ID	DN40J			DN40K			DN40L			DN40M			DN40N			
Field ID	01NE29SD128			01NE29SD129			01NE00TB104			01NE29SD127			01NE29SD126			
Matrix	SX			SX			SX			SX			SX			
Date Collected	8/21/01			8/21/01			8/21/01			8/21/01			8/21/01			
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	
benzene	3.3	U		1.2	U		5	U		2.9	U		4.4	U		
ethylbenzene	3.3	U		1.2	U		8			2.9	U		4.4	U		
m,p-xylene	6.5	U		3.2	B	k	30			5.7	U		8.8	U		
o-xylene	3.3	U		1.2	U		9.8			2.9	U		4.4	U		
toluene	6.4	B	k	4.7	B	k	45			9.7	B	k	7.4	B	k	

DATA SUM. .Y TABLE

Sample ID	DN68A			DN68B			DN68K			DN68L				
Field ID	01NE21SS169			01NE21SS269			01NE09SS171			01NE00TB111				
Matrix	SX			SX			SX			SX				
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01				
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg				
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC		
benzene	15	U		15	U		2.5	U		5	U			
ethylbenzene	15	U		15	U		2.5	U		5.4				
m,p-xylene	29	U		30	U		5	U		20				
o-xylene	15	U		15	U		2.5	U		6.2				
toluene	39	B	k	15	U		9	B	k	39				

BTEX

DATA SUMMARY TABLE

Sample ID	DN69N			DN69O			DN69P			DN69Q			DN69R			DN69S		
Field ID	01NE31SS121			01NE31SS122			01NE31SS123			01NE31SS124			01NE31SS221			01NE00TB114		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
benzene	4.1	U		2.4	U		5.2	U		3	U		3.5	U		5	U	
ethylbenzene	4.1	U		2.4	U		5.2	U		3	U		3.5	U		7.1		
m,p-xylene	8.3	U		4.8	U		17	B	k	5.9	U		9	B	k	28		
o-xylene	4.1	U		2.4	U		5.3	B	k	3	U		3.5	U		8.3		
toluene	12	B	k	2.4	U		24	B	k	7.3	B	k	14	B	k	44		

BTE

DATA SUM / TABLE

Sample ID	DN70A			DN70B			DN70C			DN70D			DN70E			DN70F		
Field ID	01NE21SB170			01NE21SS170			01NE24SD114			01NE21SD113			01NE24SD214			01NE21SB169		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
benzene	2.9	U		3.7	U		3	U		15	U		9.1	U		4.1	U	
ethylbenzene	2.9	U		3.7	U		3	U		15	U		9.1	U		6.7	B	k
m,p-xylene	5.8	U		7.4	B	k	6.1	U		29	U		18	U		21	B	k
o-xylene	2.9	U		3.7	U		3	U		15	U		9.1	U		6.3	B	k
toluene	7.2	B	k	11	B	k	3.2	B	k	55	B	k	17	B	k	24	B	k

BTEX

DATA SUMMARY TABLE

Sample ID	DN70G			DN70H			DN70I			DN70J			DN70K			DN70L		
Field ID	01NE21SB171			01NE21SS172			01NE21SD114			01NE21SS173			01NE24SD115			01NE00TB109		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
benzene	10	U		34	U		4.2	U		14	U		7.2	U		49	U	
ethylbenzene	10	U		34	U		4.2	U		14	U		8.8	B	k	87		
m,p-xylene	23	B	k	96	B	k	10	B	k	32	B	k	30	B	k	330		
o-xylene	10	U		34	U		4.2	U		14	U		9.2	B	k	100		
toluene	41	B	k	140	B	k	19	B	k	73	B	k	38	B	k	440		

Sample ID	DN71A						
Field ID	01NE09SW112						
Matrix	WX						
Date Collected	8/26/01						
Units	µg/L						
Analyte	RESULT	Q	RC				
benzene	1	U					
ethylbenzene	1	U					
m,p-xylene	1	U					
o-xylene	1	U					
toluene	1	U					

DATA SUMMARY TABLE

Sample ID	DN73C			DN73D			DN73E			DN73I			DN73L			
Field ID	01NE06WP103			01NE31SW101			01NE31SW102			01NE00TB115			01NE24SW114			
Matrix	WX			WX			WX			WX			WX			
Date Collected	8/25/01			8/24/01			8/24/01			8/24/01			8/24/01			
Units	µg/L			µg/L			µg/L			µg/L			µg/L			
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	
benzene	1	U		1	U		1	U		1	U		1	U		
ethylbenzene	1	U		1	U		1	U		1	U		1	U		
m,p-xylene	1	U		1	U		1	U		1	U		1	U		
o-xylene	1	U		1	U		1	U		1	U		1	U		
toluene	1	U		1	U		1	U		1	U		1	U		

Gas .e Range Organics

DATA SUM. .Y TABLE

Sample ID	100413-06			100413-07							
Field ID	01NE29SW317			01NE00TB107							
Matrix	WX			WX							
Date Collected	8/20/01			8/20/01							
Units	mg/L			mg/L							
Analyte	RESULT	Q	RC	RESULT	Q	RC					
gasoline range organics	0.05	U		0.05	U						

Gasoline Range Organics

DATA SUMMARY TABLE

Sample ID	100418-02		100418-03				
Field ID	01NE09SW307		01NE00TB110				
Matrix	WX		WX				
Date Collected	8/23/01		8/23/01				
Units	mg/L		mg/L				
Analyte	**RESULT**	**Q** **RC**	**RESULT**	**Q** **RC**			
gasoline range organics	0.05	U	0.05	U			

Gas. . Range Organics — DATA SUM. . TABLE

Sample ID	100492-02			100492-03			100492-04			100492-07			100492-11			100492-14		
Field ID	01NE21SW313			01NE00TB112			01NE21SS369			01NE24SD314			01NE31SS321			01NE00TB106		
Matrix	WX			WX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/23/01		
Units	mg/L			mg/L			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
gasoline range organics	0.04	B	a	0.029	B	a	5.5	UJ	b	0.74	U		1.1	U		2	U	

Gasoline Range Organics **DATA SUMMARY TABLE**

Sample ID	99805-01			99805-02							
Field ID	01NE35GW301			01NE35TB302							
Matrix	WX			WX							
Date Collected	7/25/01			7/25/01							
Units	mg/L			mg/L							
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**					
gasoline range organics	0.05	UJ	t	0.05	UJ	t					

Ga: .e Range Organics DATA SUM .Y TABLE

Sample ID	DK21A		DK21C					
Field ID	01NE35GW102		01NE35TB101					
Matrix	WX		WX					
Date Collected	7/24/01		7/24/01					
Units	mg/L		mg/L					
Analyte	RESULT	Q RC	RESULT	Q RC				
gasoline range organics	0.25	U	0.25	U				

Gasoline Range Organics

DATA SUMMARY TABLE

Sample ID	DK48A			DK48B			DK48C			DK48D			DK48E			
Field ID	01NE35GW101			01NE35GW103			01NE35GW104			01NE35GW201			01NE35TB102			
Matrix	WX			WX			WX			WX			WX			
Date Collected	7/25/01			7/25/01			7/26/01			7/25/01			7/25/01			
Units	mg/L			mg/L			mg/L			mg/L			mg/L			
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	
gasoline range organics	0.25	U		0.25	U		0.25	U		0.25	U		0.25	U		

Gas. .e Range Organics

DATA SUM. .Y TABLE

Sample ID	DN03H			DN03I			DN03J					
Field ID	01NE07SW104			01NE00TB102			01NE07SW105					
Matrix	WX			WX			WX					
Date Collected	8/19/01			8/19/01			8/19/01					
Units	mg/L			mg/L			mg/L					
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC			
gasoline range organics	0.25	U		0.25	U		0.25	U				

Gasoline Range Organics

DATA SUMMARY TABLE

Sample ID	DN07K			DN07L			DN07M					
Field ID	01NE06SD116			01NE06SD117			01NE00TB101					
Matrix	SX			SX			SX					
Date Collected	8/18/01			8/18/01			8/18/01					
Units	mg/Kg			mg/Kg			mg/Kg					
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**			
gasoline range organics	26.1	U		9.09	U		5.48	U				

Gas[illegible] Range Organics

DATA SUM[illegible] TABLE

Sample ID	DN36G	DN36H	DN36I	DN36J	DN36K	DN36L
Field ID	01NE29SW116	01NE00TB103	01NE29SW117	01NE29SW217	01NE29SW115	01NE29SW114
Matrix	WX	WX	WX	WX	WX	WX
Date Collected	8/21/01	8/20/01	8/20/01	8/20/01	8/20/01	8/20/01
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Analyte	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC
gasoline range organics	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

Gasoline Range Organics

DATA SUMMARY TABLE

Sample ID	DN40J			DN40K			DN40L			DN40M			DN40N			
Field ID	01NE29SD128			01NE29SD129			01NE00TB104			01NE29SD127			01NE29SD126			
Matrix	SX			SX			SX			SX			SX			
Date Collected	8/21/01			8/21/01			8/21/01			8/21/01			8/21/01			
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	
gasoline range organics	5.09	U		5	U		24	U		5.18	U		8.56	U		

Gas[illegible] Range Organics

DATA SUM[illegible] TABLE

Sample ID	DN53J	DN53K	DN53L	DN53M	DN53N	
Field ID	01NE09SW207	01NE09SW109	01NE09SW108	01NE09SW107	01NE00TB108	
Matrix	WX	WX	WX	WX	WX	
Date Collected	8/23/01	8/23/01	8/23/01	8/23/01	8/23/01	
Units	mg/L	mg/L	mg/L	mg/L	mg/L	
Analyte	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	
gasoline range organics	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	

Gasoline Range Organics

DATA SUMMARY TABLE

Sample ID	DN68A			DN68B			DN68G			DN68K			DN68L			
Field ID	01NE21SS169			01NE21SS269			01NE09SD113			01NE09SS171			01NE00TB111			
Matrix	SX			SX			SX			SX			SX			
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	
gasoline range organics	50.6	U		47.1	U		47.7	U		5	U		24	U		

Gasc . Range Organics

DATA SUMM. . TABLE

Sample ID	DN69N			DN69O			DN69P			DN69Q			DN69R			DN69S		
Field ID	01NE31SS121			01NE31SS122			01NE31SS123			01NE31SS124			01NE31SS221			01NE00TB114		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
gasoline range organics	7.06	U		5	U		12.2	U		5.76	U		7.16	U		24	U	

Gasoline Range Organics

DATA SUMMARY TABLE

Sample ID	DN70A			DN70B			DN70C			DN70D			DN70E			DN70F		
Field ID	01NE21SB170			01NE21SS170			01NE24SD114			01NE21SD113			01NE24SD214			01NE21SB169		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
gasoline range organics	6.43	U		14.8	U		67	U		13.1	U		64.1	U		5.42	U	

Ga. .e Range Organics DATA SUM. .Y TABLE

Sample ID	DN70G			DN70H			DN70I			DN70J			DN70K			DN70L		
Field ID	01NE21SB171			01NE21SS172			01NE21SD114			01NE21SS173			01NE24SD115			01NE00TB109		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
gasoline range organics	5	U		43.3	U		30.1	U		8.04	U		5	U		24	U	

Gasoline Range Organics

DATA SUMMARY TABLE

Sample ID	DN71A			DN71Q			DN71R			DN71S			DN71T			
Field ID	01NE09SW112			01NE09WP102			01NE09MW103			01NE00TB116			01NE09SW111			
Matrix	WX			WX			WX			WX			WX			
Date Collected	8/26/01			8/26/01			8/26/01			8/26/01			8/26/01			
Units	mg/L			mg/L			mg/L			mg/L			mg/L			
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	
gasoline range organics	0.25	U		0.25	U		0.25	U		0.25	U		0.25	U		

Ga. .e Range Organics

DATA SUM. .Y TABLE

Sample ID	DN73A			DN73B			DN73C			DN73D			DN73E			DN73I		
Field ID	01NE30WP101			01NE09SW110			01NE06WP103			01NE31SW101			01NE31SW102			01NE00TB115		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/25/01			8/25/01			8/25/01			8/24/01			8/24/01			8/24/01		
Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
gasoline range organics	0.25	U		0.25	U		0.25	U		0.25	U		0.25	U		0.25	U	

Gasoline Range Organics

DATA SUMMARY TABLE

Sample ID	DN73J			DN73L			DN73M			DN73N			DN73O			
Field ID	01NE21SW113			01NE24SW114			01NE21SW114			01NE21SW213			01NE00TB113			
Matrix	WX			WX			WX			WX			WX			
Date Collected	8/24/01			8/24/01			8/21/01			8/24/01			8/24/01			
Units	mg/L			mg/L			mg/L			mg/L			mg/L			
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	
gasoline range organics	0.25	U		0.25	U		0.25	UJ	e	0.25	U		0.25	U		

Gas. .e Range Organics

DATA SUM. .Y TABLE

Sample ID	DN88A			DN88C			DN88F			DN88G			DN88H			
Field ID	01NE07WP102			01NE30WP102			01NE07WP103			01NE07WP101			01NE00TB118			
Matrix	WX			WX			WX			WX			WX			
Date Collected	8/27/01			8/28/01			8/27/01			8/26/01			8/27/01			
Units	mg/L			mg/L			mg/L			mg/L			mg/L			
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	
gasoline range organics	0.25	U		0.25	U		0.25	U		0.25	U		0.25	U		

Diesel Range Organics

DATA SUMMARY TABLE

Sample ID	100302-01			100302-02			100302-03			100302-04			100302-05			100302-06		
Field ID	01NE06TP301			01NE28SD311			01NE28SD325			01NE28SD351			01NE28SD353			01NE28SD357		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/19/01			8/19/01			8/19/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	1100			1200			720			17000	J	o	13000	J	o	3700		

Die. .ange Organics

DATA SUM. .Y TABLE

Sample ID	100302-07			100302-08			100302L04			100302L05				
Field ID	01NE28SW311			01NE28SD339			01NE28SD351			01NE28SD353				
Matrix	WX			SX			SX			SX				
Date Collected	8/18/01			8/19/01			8/19/01			8/19/01				
Units	mg/L			mg/Kg			mg/Kg			mg/Kg				
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**		
diesel range organics	0.54			64	J	m,n	18000			15000				

Residual Range Organics

DATA SUMMARY TABLE

Sample ID	100302-01			100302-02			100302-03			100302-04			100302-05			100302-06		
Field ID	01NE06TP301			01NE28SD311			01NE28SD325			01NE28SD351			01NE28SD353			01NE28SD357		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/19/01			8/19/01			8/19/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
residual range organics	3100			1000			1900			1000			2200			270		

Res. . Range Organics

DATA SUM. / TABLE

Sample ID	100302-07		100302-08				
Field ID	01NE28SW311		01NE28SD339				
Matrix	WX		SX				
Date Collected	8/18/01		8/19/01				
Units	mg/L		mg/Kg				
Analyte	RESULT	Q RC	RESULT	Q RC			
residual range organics	0.15		460				

Diesel Range Organics

DATA SUMMARY TABLE

	Sample ID	100413-01			100413-02			100413-03			100413-04			100413-05			100413-06		
	Field ID	01NE29SD325			01NE28SD375			01NE28SD371			01NE28SD363			01NE29SD314			01NE29SW317		
	Matrix	SX			SX			SX			SX			SX			WX		
	Date Collected	8/21/01			8/20/01			8/20/01			8/20/01			8/21/01			8/20/01		
	Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/L		
Analyte		**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics		54	U		180			870			51000			120			0.1	U	

Sample ID	100413L04						
Field ID	01NE28SD363						
Matrix	SX						
Date Collected	8/20/01						
Units	mg/Kg						
Analyte	**RESULT Q RC**						
diesel range organics	53000						

Residual Range Organics

DATA SUMMARY TABLE

Sample ID	100413-01			100413-02			100413-03			100413-04			100413-05			100413-06		
Field ID	01NE29SD325			01NE28SD375			01NE28SD371			01NE28SD363			01NE29SD314			01NE29SW317		
Matrix	SX			SX			SX			SX			SX			WX		
Date Collected	8/21/01			8/20/01			8/20/01			8/20/01			8/21/01			8/20/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/L		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
residual range organics	200			1500			2000	J	f	5400			180			0.069	J	m

Re. al Range Organics DATA SUI :Y TABLE

Sample ID	100413L04					
Field ID	01NE28SD363					
Matrix	SX					
Date Collected	8/20/01					
Units	mg/Kg					
Analyte	RESULT Q RC					
residual range organics	5700					

Diesel Range Organics

DATA SUMMARY TABLE

Sample ID	100418-02					
Field ID	01NE09SW307					
Matrix	WX					
Date Collected	8/23/01					
Units	mg/L					
Analyte	**RESULT Q RC**					
diesel range organics	0.098 U					

Sample ID	100418-02					
Field ID	01NE09SW307					
Matrix	WX					
Date Collected	8/23/01					
Units	mg/L					
Analyte	RESULT Q RC					
residual range organics	0.098 U					

Diesel Range Organics

DATA SUMMARY TABLE

Sample ID	100492-01			100492-02			100492-04			100492-05			100492-06			100492-11		
Field ID	01NE24SW314			01NE21SW313			01NE21SS369			01NE31SS320			01NE31SS305			01NE31SS321		
Matrix	WX			WX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/23/01			8/24/01			8/24/01		
Units	mg/L			mg/L			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	0.22			0.36			120	J	m	1900			990			54	J	f

Dies. .nge Organics DATA SUMM TABLE

Sample ID	100492-13						
Field ID	01NE09SD313						
Matrix	SX						
Date Collected	8/24/01						
Units	mg/Kg						
Analyte	**RESULT**	**Q**	**RC**				
diesel range organics	120	J	m				

Residual Range Organics

DATA SUMMARY TABLE

Sample ID	100492-01			100492-02			100492-04			100492-05			100492-06			100492-11		
Field ID	01NE24SW314			01NE21SW313			01NE21SS369			01NE31SS320			01NE31SS305			01NE31SS321		
Matrix	WX			WX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/23/01			8/24/01			8/24/01		
Units	mg/L			mg/L			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
residual range organics	0.23			0.073	J	m	1500			14000	J	o	43	J	n	260		

Sample ID	100492-13		100492L05				
Field ID	01NE09SD313		01NE31SS320				
Matrix	SX		SX				
Date Collected	8/24/01		8/23/01				
Units	mg/Kg		mg/Kg				
Analyte	RESULT	Q RC	RESULT	Q RC			
residual range organics	1200		14000				

Diesel Range Organics

DATA SUMMARY TABLE

Sample ID	99805-01						
Field ID	01NE35GW301						
Matrix	WX						
Date Collected	7/25/01						
Units	mg/L						
Analyte	**RESULT**	**Q**	**RC**				
diesel range organics	0.11	J	t				

Sample ID	99805-01							
Field ID	01NE35GW301							
Matrix	WX							
Date Collected	7/25/01							
Units	mg/L							
Analyte	RESULT	Q	RC					
residual range organics	0.15	J	t					

Diesel / Residual Range Organics **DATA SUMMARY TABLE**

Sample ID	DK21A			DK21ARE							
Field ID	01NE35GW102			01NE35GW102							
Matrix	WX			WX							
Date Collected	7/24/01			7/24/01							
Units	mg/L			mg/L							
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**					
diesel range organics	1.4			1.3	UJ	e					
motor oil	2.8			2.3	UJ	e					

Dies ‹esidual Range Organics DATA SUM. .' TABLE

Sample ID	DK48A			DK48ARE			DK48B			DK48BRE			DK48C			DK48CRE		
Field ID	01NE35GW101			01NE35GW101			01NE35GW103			01NE35GW103			01NE35GW104			01NE35GW104		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	7/25/01			7/25/01			7/25/01			7/25/01			7/26/01			7/26/01		
Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	0.25	U		0.25	UJ	e	0.25	U		0.25	UJ	e	0.25	U		0.25	U	
motor oil	0.5	U		0.5	UJ	e	0.5	U		0.5	UJ	e	0.5	U		0.5	U	

Diesel / Residual Range Organics **DATA SUMMARY TABLE**

Sample ID	DK48D			DK48DRE						
Field ID	01NE35GW201			01NE35GW201						
Matrix	WX			WX						
Date Collected	7/25/01			7/25/01						
Units	mg/L			mg/L						
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**				
diesel range organics	0.25	U		0.25	UJ	e				
motor oil	0.5	U		0.5	UJ	e				

Diesel Residual Range Organics — DATA SUMMARY TABLE

Sample ID	DN03A			DN03B			DN03C			DN03D			DN03E			DN03F		
Field ID	01NE28SW115			01NE28SW211			01NE28SW113			01NE28SW111			01NE28SW112			01NE28SW114		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/19/01			8/18/01			8/18/01			8/18/01			8/18/01			8/19/01		
Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
diesel range organics	0.68			0.41			0.57			0.41			0.71			2.3		
motor oil	0.5	U		0.5	U		0.5	U		0.5	U		0.5	U		0.5	U	

Diesel / Residual Range Organics

DATA SUMMARY TABLE

Sample ID	DN03G			DN03J						
Field ID	01NE07SW104			01NE07SW105						
Matrix	WX			WX						
Date Collected	8/19/01			8/19/01						
Units	mg/L			mg/L						
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**				
diesel range organics	0.25	U		0.25	U					
motor oil	0.5	U		0.5	U					

Dies. Residual Range Organics — DATA SUM. .Y TABLE

Sample ID	DN04A			DN04B			DN04C			DN04D			DN04D-RE			DN04E		
Field ID	01NE28SD117			01NE28SD118			01NE28SD119			01NE28SD120			01NE28SD120			01NE28SD121		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/18/01			8/18/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
diesel range organics	1500			330	J	f	36000			170	J	b	480	J	b	74		
motor oil	920			430			9000			600	J	b	1000	J	b	580		

Diesel / Residual Range Organics

DATA SUMMARY TABLE

Sample ID	DN04F			DN04F-RE			DN04G			DN04G-RE			DN04H			DN04I		
Field ID	01NE28SD122			01NE28SD122			01NE28SD123			01NE28SD123			01NE28SD124			01NE28SD125		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/18/01			8/18/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	110	J	b	310	J	b	140	J	b	1600	J	b	650			1000		
motor oil	460	J	b	910	J	b	490	J	b	1500	J	b	2000			880		

Dies. .esidual Range Organics

DATA SUM. .' TABLE

Sample ID	DN04J	DN04K	DN04L	DN04M	DN04N	DN04O
Field ID	01NE28SD126	01NE28SD127	01NE28SD128	01NE28SD225	01NE28SD129	01NE28SD130
Matrix	SX	SX	SX	SX	SX	SX
Date Collected	8/18/01	8/18/01	8/18/01	8/18/01	8/18/01	8/18/01
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Analyte	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC
diesel range organics	5200	3100	15000	860	2500	14000
motor oil	1200	300	1800	510	660	2200

Diesel / Residual Range Organics

DATA SUMMARY TABLE

Sample ID	DN04P			DN04Q			DN04R			DN04S				
Field ID	01NE28SD131			01NE28SD132			01NE28SD133			01NE28SD134				
Matrix	SX			SX			SX			SX				
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01				
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg				
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**		
diesel range organics	56000			150000			4900			5200				
motor oil	9900			6900			780			230	U			

Die. .Residual Range Organics DATA SUM. Y TABLE

Sample ID	DN05A			DN05B			DN05C			DN05D			DN05E			DN05F		
Field ID	01NE28SD153			01NE28SD154			01NE28SD155			01NE28SD156			01NE28SD157			01NE28SD158		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
diesel range organics	19000			14000			88000			85000			15000			3800	J	c,f
motor oil	2400			2000			10000			14000			2000	U		1300		

Diesel / Residual Range Organics

DATA SUMMARY TABLE

Sample ID	DN05G	DN05H				
Field ID	01NE28SD253	01NE28SD257				
Matrix	SX	SX				
Date Collected	8/19/01	8/19/01				
Units	mg/Kg	mg/Kg				
Analyte	**RESULT Q RC**	**RESULT Q RC**				
diesel range organics	20000	18000				
motor oil	2400	2000 U				

Die. . Residual Range Organics DATA SUM. .Y TABLE

Sample ID	DN06A			DN06B			DN06C			DN06D			DN06E			DN06F		
Field ID	01NE28SD135			01NE28SD136			01NE28SD137			01NE28SD138			01NE28SD139			01NE28SD140		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
diesel range organics	1100			40000			560			170			520	J	c,f,n	6900		
motor oil	400			13000			2700			1200			2300			1300		

Diesel / Residual Range Organics **DATA SUMMARY TABLE**

Sample ID	DN06G			DN06H			DN06I			DN06J			DN06K			DN06L		
Field ID	01NE28SD239			01NE28SD141			01NE28SD142			01NE28SD143			01NE28SD144			01NE28SD145		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	610	J	n	430			280			15000			6700			2500		
motor oil	2500			2200			1100			2300			2600			3000		

Dies. .esidual Range Organics DATA SUMI TABLE

Sample ID	DN06M			DN06N			DN06O			DN06P			DN06Q			DN06R		
Field ID	01NE28SD146			01NE28SD147			01NE28SD148			01NE28SD149			01NE28SD150			01NE28SD151		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
diesel range organics	66000			11000			14000			19000			4600			15000		
motor oil	1900			1200			1300			1900			1300			1000		

Diesel / Residual Range Organics

DATA SUMMARY TABLE

Sample ID	DN06S	DN06T				
Field ID	01NE28SD251	01NE28SD152				
Matrix	SX	SX				
Date Collected	8/19/01	8/19/01				
Units	mg/Kg	mg/Kg				
Analyte	**RESULT Q RC**	**RESULT Q RC**				
diesel range organics	14000	5700				
motor oil	1000 U	1200				

Die. **Residual Range Organics** **DATA SUM. .Y TABLE**

Sample ID	DN07A			DN07B			DN07C			DN07D			DN07E			DN07F		
Field ID	01NE06TP101			01NE06TP201			01NE06TP102			01NE28SD111			01NE28SD211			01NE28SD112		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/18/01			8/18/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	2000			860			3000			640			1500			610		
motor oil	3400			1300			8500			520			820			1800		

Diesel / Residual Range Organics **DATA SUMMARY TABLE**

Sample ID	DN07G			DN07H			DN07I			DN07J			DN07K			DN07L		
Field ID	01NE28SD113			01NE28SD114			01NE28SD115			01NE28SD116			01NE06SD116			01NE06SD117		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/18/01			8/18/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	180			680			360			310			110			40		
motor oil	420			3200			1600			1500			880			220		

Dies .esidual Range Organics DATA SUM. / TABLE

Sample ID	DN07N			DN07O			DN07P			DN07Q			DN07R			
Field ID	01NE07SS125			01NE07SS126			01NE07SS127			01NE07SD105			01NE07SD104			
Matrix	SX			SX			SX			SX			SX			
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	
diesel range organics	150			160			720			280			1400			
motor oil	620			740			3600			1700			2800			

Diesel / Residual Range Organics **DATA SUMMARY TABLE**

Sample ID	DN36A			DN36B			DN36C			DN36D			DN36E			DN36F		
Field ID	01NE29SW117			01NE29SW217			01NE29SW116			01NE29SW115			01NE29SW114			01NE28SW116		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/20/01			8/20/01			8/21/01			8/21/01			8/21/01			8/20/01		
Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	0.25	U		0.25	U		0.25	U		0.25	U		0.25	U		0.39		
motor oil	0.5	U		0.5	U		0.5	U		0.5	U		0.5	U		0.5	U	

Die Residual Range Organics DATA SUI .RY TABLE

Sample ID	DN38A			DN38B			DN38C			DN38D			DN38E			DN38F		
Field ID	01NE29SD114			01NE29SD214			01NE29SD115			01NE29SD116			01NE29SD117			01NE29SD118		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/21/01			8/21/01			8/21/01			8/21/01			8/21/01			8/21/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
diesel range organics	410			380			13			95			9.3			18		
motor oil	770			810			26			250			10	U		45		

Diesel / Residual Range Organics

DATA SUMMARY TABLE

Sample ID	DN38G			DN38H			DN38I			DN38J			DN38K			DN38L		
Field ID	01NE29SD119			01NE28SD165			01NE28SD166			01NE28SD167			01NE28SD168			01NE28SD169		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/21/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	15			120			65			17000			8200			54000		
motor oil	100			620			240			10000			3000			6300		

Diesel Residual Range Organics — DATA SUMMARY TABLE

Sample ID	DN38M					
Field ID	01NE28SD170					
Matrix	SX					
Date Collected	8/20/01					
Units	mg/Kg					
Analyte	**RESULT Q RC**					
diesel range organics	60000					
motor oil	6900					

Diesel / Residual Range Organics

DATA SUMMARY TABLE

Sample ID	DN39A			DN39B			DN39B-DL			DN39C			DN39C-DL			DN39D		
Field ID	01NE28SD159			01NE28SD160			01NE28SD160			01NE28SD161			01NE28SD161			01NE28SD163		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/20/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	58000			58000	J	o	71000			60000	J	o	75000			49000	J	o
motor oil	10000	U		2000			10000	U		4000			10000	U		4000		

Diesel Residual Range Organics — DATA SUMMARY TABLE

Sample ID	DN39D-DL			DN39E			DN39E-DL			DN39F			DN39F-DL			DN39G		
Field ID	01NE28SD163			01NE28SD164			01NE28SD164			01NE28SD263			01NE28SD263			01NE28SD171		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/20/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	56000			48000	J	o	59000			50000	J	o	57000			2200		
motor oil	10000	U		1600			10000	U		4200			10000	U		4200		

Diesel / Residual Range Organics

DATA SUMMARY TABLE

Sample ID	DN39H			DN39H-DL			DN39I			DN39J			DN39K			DN39L		
Field ID	01NE28SD172			01NE28SD172			01NE28SD173			01NE28SD174			01NE28SD175			01NE28SD176		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/20/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	5200	J	b,o	5700			1600			950			280	J	b	790	J	b
motor oil	360	J	b	440			2100			2000			1200	J	b	1400	J	b

Dies. Residual Range Organics **DATA SUM. TABLE**

Sample ID	DN39M			DN39N			DN39O			DN39P			DN39P-DL			DN39Q		
Field ID	01NE28SD271			01NE28SD275			01NE28SD177			01NE28SD178			01NE28SD178			01NE28SD179		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/20/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	1500	J	b	240			12000			42000	J	o	45000			9600		
motor oil	1400	J	b	1800			1200			2200			3300	U		1300		

Diesel / Residual Range Organics **DATA SUMMARY TABLE**

Sample ID	DN39R			DN39S			DN39T					
Field ID	01NE28SD180			01NE28SD181			01NE28SD182					
Matrix	SX			SX			SX					
Date Collected	8/20/01			8/20/01			8/20/01					
Units	mg/Kg			mg/Kg			mg/Kg					
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**			
diesel range organics	8900			4100			1400					
motor oil	1900			1700			2100					

Dies. .esidual Range Organics **DATA SUM TABLE**

Sample ID	DN40A			DN40A-RE			DN40B			DN40B-RE			DN40C			DN40C-RE		
Field ID	01NE29SD123			01NE29SD123			01NE29SD124			01NE29SD124			01NE29SD125			01NE29SD125		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/21/01			8/21/01			8/21/01			8/21/01			8/21/01			8/21/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	74			44	J	e	500			1400	J	e	28			150	J	e
motor oil	500			180	J	e	210			580	J	e	170			790	J	e

Diesel / Residual Range Organics **DATA SUMMARY TABLE**

Sample ID	DN40D			DN40D-RE			DN40E			DN40E-RE			DN40F			DN40F-RE		
Field ID	01NE29SD225			01NE29SD225			01NE29SD128			01NE29SD128			01NE29SD129			01NE29SD129		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/21/01			8/21/01			8/21/01			8/21/01			8/21/01			8/21/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	23			150	J	e	48			180	J	e	5	U		15	J	e
motor oil	140			680	J	e	280			1000	J	e	13			73	J	e

Die. Residual Range Organics DATA SUM. Y TABLE

Sample ID	DN40G			DN40G-RE			DN40H			DN40H-RE			DN40I			DN40I-RE		
Field ID	01NE29SD120			01NE29SD120			01NE29SD121			01NE29SD121			01NE29SD122			01NE29SD122		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/21/01			8/21/01			8/21/01			8/21/01			8/21/01			8/21/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
diesel range organics	27			47	J	e	5	U		11	J	e	25			37	J	e
motor oil	51			100	J	e	10			10	UJ	e	19			50	J	e

Diesel / Residual Range Organics **DATA SUMMARY TABLE**

Sample ID	DN40M			DN40M-RE			DN40N			DN40N-RE				
Field ID	01NE29SD127			01NE29SD127			01NE29SD126			01NE29SD126				
Matrix	SX			SX			SX			SX				
Date Collected	8/21/01			8/21/01			8/21/01			8/21/01				
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg				
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**		
diesel range organics	59			250	J	e	110			240	J	e		
motor oil	440			1100	J	e	570			1000	J	e		

Diesel Residual Range Organics — DATA SUMMARY TABLE

Sample ID	DN53A			DN53A-RE			DN53B			DN53B-RE			DN53F			DN53F-RE		
Field ID	01NE09SW109			01NE09SW109			01NE09SW107			01NE09SW107			01NE09SW207			01NE09SW207		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/23/01			8/23/01			8/23/01			8/23/01			8/23/01			8/23/01		
Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	0.25	U		0.25	UJ	e	0.25	U		0.25	UJ	e	0.25	U		0.25	UJ	e
motor oil	0.5	U		0.5	UJ	e	0.5	U		0.5	UJ	e	0.5	U		0.5	UJ	e

Diesel / Residual Range Organics **DATA SUMMARY TABLE**

Sample ID	DN53G			DN53G-RE						
Field ID	01NE09SW108			01NE09SW108						
Matrix	WX			WX						
Date Collected	8/23/01			8/23/01						
Units	mg/L			mg/L						
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**				
diesel range organics	0.25	U		0.25	UJ	e				
motor oil	0.5	U		0.5	UJ	e				

Die. . Residual Range Organics DATA SUM. ‹Y TABLE

Sample ID	DN55A			DN55B			DN55C			DN55D			DN55E			DN55F		
Field ID	01NE33SS101			01NE33SS102			01NE33SS103			01NE34SS101			01NE34SS102			01NE34SS103		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/23/01			8/23/01			8/23/01			8/23/01			8/23/01			8/23/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
diesel range organics	170			150			660			47			14			13		
motor oil	300			270			2100			150			77			76		

Diesel / Residual Range Organics

DATA SUMMARY TABLE

Sample ID	DN55G			DN55H			DN55H-DL			DN55I			DN55J			DN55K		
Field ID	01NE34SS105			01NE34SS106			01NE34SS106			01NE34SS107			01NE34SS108			01NE34SS109		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/23/01			8/23/01			8/23/01			8/23/01			8/23/01			8/23/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	980			1200	J	o	1100			41			220			300		
motor oil	100	U		58			100	U		95			280			1200		

Dies .esidual Range Organics **DATA SUMI TABLE**

Sample ID	DN55L		DN55M				
Field ID	01NE34SS110		01NE34SS111				
Matrix	SX		SX				
Date Collected	8/23/01		8/23/01				
Units	mg/Kg		mg/Kg				
Analyte	**RESULT**	**Q RC**	**RESULT**	**Q RC**			
diesel range organics	230		7.1				
motor oil	620		30				

Diesel / Residual Range Organics **DATA SUMMARY TABLE**

Sample ID	DN68A			DN68B			DN68F			DN68F-RE			DN68N			DN68O		
Field ID	01NE21SS169			01NE21SS269			01NE09SD114			01NE09SD114			01NE31SS101			01NE31SS102		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	270			220	J	c,f	93	J	b	65	J	b,e	11			25		
motor oil	2800			2200			740	J	b	300	J	b,e	33			95		

Dies. . Residual Range Organics DATA SUM. .Y TABLE

Sample ID	DN68Q			DN68R			DN68S			DN68T			DN68U			DN68V		
Field ID	01NE31SS103			01NE31SS104			01NE32SS101			01NE32SS102			01NE32SS103			01NE32SS104		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
diesel range organics	18			49			7600			13000			230			600		
motor oil	62			140			2000	U		2000	U		1100			1200		

Diesel / Residual Range Organics **DATA SUMMARY TABLE**

Sample ID	DN69A			DN69B			DN69C			DN69D			DN69E			DN69F		
Field ID	01NE21SB169			01NE21SB170			01NE21SS170			01NE21SB171			01NE21SS171			01NE21SS172		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	640			340			380			5	U		94			140		
motor oil	3700			2300			2200			25			530			390		

Die Residual Range Organics DATA SUM .Y TABLE

Sample ID	DN69G	DN69H	DN69I	DN69N	DN69O	DN69P
Field ID	01NE21SS173	01NE21SD113	01NE21SD114	01NE31SS121	01NE31SS122	01NE31SS123
Matrix	SX	SX	SX	SX	SX	SX
Date Collected	8/24/01	8/24/01	8/24/01	8/24/01	8/24/01	8/24/01
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Analyte	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC
diesel range organics	300	310	310	47 J f	11000	240
motor oil	1700	2000	2000	350	7800	1300

Diesel / Residual Range Organics **DATA SUMMARY TABLE**

Sample ID	DN69Q		DN69R					
Field ID	01NE31SS124		01NE31SS221					
Matrix	SX		SX					
Date Collected	8/24/01		8/24/01					
Units	mg/Kg		mg/Kg					
Analyte	**RESULT**	**Q RC**	**RESULT**	**Q RC**				
diesel range organics	100		39					
motor oil	190		340					

Die . Residual Range Organics DATA SUI .RY TABLE

Sample ID	DN71A			DN71B			DN71C			DN71D			DN71D-RE			DN71E		
Field ID	01NE09SW112			01NE09WP102			01NE06SW116			01NE09MW103			01NE09MW103			01NE09SW111		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/26/01			8/26/01			8/26/01			8/26/01			8/26/01			8/26/01		
Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
diesel range organics	0.25	U		0.93			0.25	U		0.25	UJ	b	0.25	UJ	b,e	0.25	U	
motor oil	0.5	U		4.2			0.5	U		0.5	UJ	b	0.5	UJ	b,e	0.5	U	

Diesel / Residual Range Organics

DATA SUMMARY TABLE

Sample ID	DN71F			DN71G			DN71H			DN71I			DN71J			DN71M		
Field ID	01NE24SW114			01NE24SW214			01NE03WP102			01NE03WP103			01NE03WP104			01NE21SW113		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/24/01			8/24/01			8/25/01			8/25/01			8/25/01			8/24/01		
Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	0.25	UJ	t	0.25	UJ	t	3.3			2.4			1.8			0.3		
motor oil	0.5	UJ	t	0.5	UJ	t	1.3			8.1			6.3			0.5	U	

Sample ID	DN71N			DN71P							
Field ID	01NE21SW213			01NE09SW110							
Matrix	WX			WX							
Date Collected	8/24/01			8/25/01							
Units	mg/L			mg/L							
Analyte	RESULT	Q	RC	RESULT	Q	RC					
diesel range organics	0.28			0.25	U						
motor oil	0.5	U		0.5	U						

Diesel / Residual Range Organics **DATA SUMMARY TABLE**

Sample ID	DN73A			DN73A-RE			DN73C			DN73C-RE			DN73D			DN73D-RE		
Field ID	01NE30WP101			01NE30WP101			01NE06WP103			01NE06WP103			01NE31SW101			01NE31SW101		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/25/01			8/25/01			8/25/01			8/25/01			8/24/01			8/24/01		
Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	2			1	UJ	e	0.29	B	a	0.58	J	e	0.25	U		0.25	UJ	e
motor oil	6.9			2.5	J	e	0.5	U		1.1	J	e	0.5	U		0.5	UJ	e

Diesel Residual Range Organics — DATA SUMMARY TABLE

Sample ID	DN73E			DN73E-RE			DN73F			DN73F-RE			DN73G			DN73G-RE		
Field ID	01NE31SW102			01NE31SW102			01NE04WP104			01NE04WP104			01NE04WP102			01NE04WP102		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/24/01			8/24/01			8/25/01			8/25/01			8/25/01			8/25/01		
Units	mg/L			mg/L			mg/L			mg/L			mg/L			mg/L		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	0.25	U		0.25	UJ	e	0.96	B	a	2.4	J	e	1.4	B	a	1	UJ	e
motor oil	0.5	U		0.5	UJ	e	2.6			6	J	e	6.5			2.2	J	e

Diesel / Residual Range Organics

DATA SUMMARY TABLE

Sample ID	DN73H			DN73H-RE			DN73M			DN73M-RE				
Field ID	01NE04WP103			01NE04WP103			01NE21SW114			01NE21SW114				
Matrix	WX			WX			WX			WX				
Date Collected	8/25/01			8/25/01			8/21/01			8/21/01				
Units	mg/L			mg/L			mg/L			mg/L				
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**		
diesel range organics	2			0.25	UJ	e	0.25	UJ	e	0.25	UJ	e		
motor oil	5.4			0.5	UJ	e	0.5	UJ	e	0.5	UJ	e		

Dies. Residual Range Organics DATA SUM. Y TABLE

Sample ID	DN76D			DN76E			DN76F			DN76G			DN76H			DN76I		
Field ID	01NE09SD107			01NE09SD108			01NE30SS101			01NE30SD101			01NE30SS103			01NE30SS102		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/23/01			8/23/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
diesel range organics	320	J	f	84			390			84			170			11		
motor oil	2100			520			2300			270			1200			21		

Diesel / Residual Range Organics

DATA SUMMARY TABLE

Sample ID	DN76J			DN76K			DN76L			DN76M			DN76N			DN76P		
Field ID	01NE09SD109			01NE09SD213			01NE24SD114			01NE24SD115			01NE32SS105			01NE09SD113		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	510			120			4600			100			1000			270	J	c,f
motor oil	1300			680			3100			230			3600			1400		

Die. . Residual Range Organics DATA SUI ‹Y TABLE

Sample ID	DN78A			DN78B			DN78C			DN78D			DN78E			DN78F		
Field ID	01NE31SS105			01NE31SS205			01NE31SS106			01NE31SS107			01NE31SS108			01NE31SS109		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/23/01			8/23/01			8/23/01			8/23/01			8/23/01			8/23/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
diesel range organics	3400			3700			620			690			550			470	J	b
motor oil	500	UJ	n	500	UJ	n	100	U		100	U		50	U		50	UJ	b

Diesel / Residual Range Organics

DATA SUMMARY TABLE

Sample ID	DN78G			DN78H			DN78I			DN78J			DN78K			DN78L		
Field ID	01NE31SS110			01NE31SS111			01NE31SS112			01NE31SS113			01NE31SS114			01NE31SS115		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/23/01			8/23/01			8/23/01			8/23/01			8/23/01			8/23/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
diesel range organics	310			78	J	b	120	J	b	640			1600			380	J	b
motor oil	40	U		32	J	b	12	J	b	100	U		200	U		40	UJ	b

Diesel Residual Range Organics — DATA SUMMARY TABLE

Sample ID	DN78M			DN78N			DN78O			DN78P			DN78Q			DN78R		
Field ID	01NE31SS116			01NE31SS117			01NE31SS118			01NE31SS119			01NE31SS120			01NE31SS220		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/23/01			8/23/01			8/23/01			8/23/01			8/23/01			8/23/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
diesel range organics	1200			2100			3000			1600			2100			2200		
motor oil	200	U		200	U		200	U		7800			11000			8200		

Diesel / Residual Range Organics

DATA SUMMARY TABLE

Sample ID	DN78S							
Field ID	01NE31SS125							
Matrix	SX							
Date Collected	8/23/01							
Units	mg/Kg							
Analyte	**RESULT**	**Q**	**RC**					
diesel range organics	64	J	b					
motor oil	210	J	b					

Dies esidual Range Organics

DATA SUM. / TABLE

Sample ID	DN88A			DN88C			DN88D			DN88E			DN88F			
Field ID	01NE07WP102			01NE30WP102			01NE06WP102			01NE07WP101			01NE07WP103			
Matrix	WX			WX			WX			WX			WX			
Date Collected	8/27/01			8/28/01			8/27/01			8/28/01			8/27/01			
Units	mg/L			mg/L			mg/L			mg/L			mg/L			
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	
diesel range organics	0.25	U		0.25	U		0.25	U		0.66			0.39			
motor oil	1.1			0.5	U		0.5	U		2.7			1.4			

Polychlorinated Biphenyls

DATA SUMMARY TABLE

	Sample ID	100302-02			100302-03			100302-04			100302-05			100302-06			100302-07		
	Field ID	01NE28SD311			01NE28SD325			01NE28SD351			01NE28SD353			01NE28SD357			01NE28SW311		
	Matrix	SX			SX			SX			SX			SX			WX		
	Date Collected	8/18/01			8/18/01			8/19/01			8/19/01			8/19/01			8/18/01		
	Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			µg/L		
Analyte		**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aroclor 1016		0.67	U		0.22	U		0.17	U		0.11	U		0.17	U		0.095	U	
aroclor 1221		0.67	U		0.22	U		0.17	U		0.11	U		0.17	U		0.19	U	
aroclor 1232		0.67	U		0.22	U		0.17	U		0.11	U		0.17	U		0.095	U	
aroclor 1242		0.67	U		0.22	U		0.17	U		0.11	U		0.17	U		0.095	U	
aroclor 1248		0.67	U		0.22	U		0.17	U		0.11	U		0.17	U		0.095	U	
aroclor 1254		0.67	U		0.22	U		0.17	U		0.45			0.17	U		0.095	U	
aroclor 1260		0.67	U		0.22	U		0.17	U		0.11	U		0.51			0.095	U	

Sample ID	100302-08									
Field ID	01NE28SD339									
Matrix	SX									
Date Collected	8/19/01									
Units	mg/Kg									
Analyte	**RESULT**	**Q**	**RC**							
aroclor 1016	0.25	U								
aroclor 1221	0.25	U								
aroclor 1232	0.25	U								
aroclor 1242	0.25	U								
aroclor 1248	0.25	U								
aroclor 1254	0.25	U								
aroclor 1260	0.25	U								

Polychlorinated Biphenyls

DATA SUMMARY TABLE

	Sample ID	100413-01			100413-02			100413-03			100413-04			100413-05			100413-06		
	Field ID	01NE29SD325			01NE28SD375			01NE28SD371			01NE28SD363			01NE29SD314			01NE29SW317		
	Matrix	SX			SX			SX			SX			SX			WX		
	Date Collected	8/21/01			8/20/01			8/20/01			8/20/01			8/21/01			8/20/01		
	Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			µg/L		
Analyte		**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aroclor 1016		0.16	U		0.46	U		0.58	U		0.16	U		0.26	U		0.1	U	
aroclor 1221		0.16	U		0.46	U		0.58	U		0.16	U		0.26	U		0.21	U	
aroclor 1232		0.16	U		0.46	U		0.58	U		0.16	U		0.26	U		0.1	U	
aroclor 1242		0.16	U		0.46	U		0.58	U		0.16	U		0.26	U		0.1	U	
aroclor 1248		0.16	U		0.46	U		0.58	U		0.16	U		0.26	U		0.1	U	
aroclor 1254		0.16	U		0.46	U		0.58	U		0.16	U		0.26	U		0.1	U	
aroclor 1260		0.16	U		0.46	U		0.58	U		0.45			0.26	U		0.1	U	

Sample ID	100418-02					
Field ID	01NE09SW307					
Matrix	WX					
Date Collected	8/23/01					
Units	µg/L					
Analyte	RESULT	Q	RC			
aroclor 1016	0.1	U				
aroclor 1221	0.2	U				
aroclor 1232	0.1	U				
aroclor 1242	0.1	U				
aroclor 1248	0.1	U				
aroclor 1254	0.1	U				
aroclor 1260	0.1	U				

Organochlorine Pesticides

DATA SUMMARY TABLE

Analyte	Sample ID	Q	RC					
	100492-10							
	01NE31SS302							
	SX							
	8/24/01							
	µg/Kg							
	RESULT	Q	RC					
4,4'-DDD	2.3	U						
4,4'-DDE	2.3	U						
4,4'-DDT	2.3	U						
aldrin	1.1	U						
alpha-BHC	1.1	U						
beta-BHC	1.1	U						
chlordane	11	U						
delta-BHC	1.1	U						
dieldrin	2.3	U						
endosulfan I	1.1	U						
endosulfan II	2.3	U						
endosulfan sulfate	2.3	U						
endrin	2.3	U						
endrin aldehyde	2.3	U						
endrin ketone	2.3	U						
gamma-BHC	1.1	U						
heptachlor	1.1	U						
heptachlor epoxide	1.1	U						
methoxychlor	11	U						
toxaphene	110	U						

Pol_ orinated Biphenyls

DATA SUM .Y TABLE

Sample ID	100492-01			100492-04			100492-10			100492-12			100492-13			
Field ID	01NE24SW314			01NE21SS369			01NE31SS302			01NE14SS303			01NE09SD313			
Matrix	WX			SX			SX			SX			SX			
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			
Units	µg/L			mg/Kg			mg/Kg			mg/Kg			mg/Kg			
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	
aroclor 1016	0.097	U		0.41	UJ	e	0.11	UJ	e	0.11	UJ	e	0.63	UJ	e	
aroclor 1221	0.19	U		0.41	UJ	e	0.11	UJ	e	0.11	UJ	e	0.63	UJ	e	
aroclor 1232	0.097	U		0.41	UJ	e	0.11	UJ	e	0.11	UJ	e	0.63	UJ	e	
aroclor 1242	0.097	U		0.41	UJ	e	0.11	UJ	e	0.11	UJ	e	0.63	UJ	e	
aroclor 1248	0.097	U		0.41	UJ	e	0.11	UJ	e	0.11	UJ	e	0.63	UJ	e	
aroclor 1254	0.097	U		0.41	UJ	e	0.11	UJ	e	0.11	UJ	e	0.63	UJ	e	
aroclor 1260	0.097	U		0.41	UJ	e	3	J	e	0.71	J	e	0.63	UJ	e	

Polychlorinated Biphenyls

DATA SUMMARY TABLE

Sample ID	DN03A			DN03B			DN03C			DN03D			DN03E			DN03F		
Field ID	01NE28SW115			01NE28SW211			01NE28SW113			01NE28SW111			01NE28SW112			01NE28SW114		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/19/01			8/18/01			8/18/01			8/18/01			8/18/01			8/19/01		
Units	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aroclor 1016	1	U		1	U		1	U		1	U		1	U		1	U	
aroclor 1221	2	U		2	U		2	U		2	U		2	U		2	U	
aroclor 1232	1	U		1	U		1	U		1	U		1	U		1	U	
aroclor 1242	1	U		1	U		1	U		1	U		1	U		1	U	
aroclor 1248	1	U		1	U		1	U		1	U		1	U		1	U	
aroclor 1254	1	U		1	U		1	U		1	U		1	U		1	U	
aroclor 1260	1	U		1	U		1	U		1	U		1	U		1	U	

Pol, orinated Biphenyls

DATA SUM .Y TABLE

Sample ID	DN03G			DN03J						
Field ID	01NE07SW104			01NE07SW105						
Matrix	WX			WX						
Date Collected	8/19/01			8/19/01						
Units	µg/L			µg/L						
Analyte	RESULT	Q	RC	RESULT	Q	RC				
aroclor 1016	1	U		1	U					
aroclor 1221	2	U		2	U					
aroclor 1232	1	U		1	U					
aroclor 1242	1	U		1	U					
aroclor 1248	1	U		1	U					
aroclor 1254	1	U		1	U					
aroclor 1260	1	U		1	U					

Sample ID	DN04A			DN04B			DN04C			DN04D			DN04E			DN04F		
Field ID	01NE28SD117			01NE28SD118			01NE28SD119			01NE28SD120			01NE28SD121			01NE28SD122		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/18/01			8/18/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aroclor 1016	61	U		50	U		200	U		190	U		180	U		220	U	
aroclor 1221	120	U		99	U		410	U		390	U		360	U		440	U	
aroclor 1232	61	U		50	U		200	U		190	U		180	U		220	U	
aroclor 1242	61	U		50	U		200	U		190	U		180	U		220	U	
aroclor 1248	61	U		50	U		200	U		190	U		180	U		220	U	
aroclor 1254	61	U		50	U		340			190	U		180	U		220	U	
aroclor 1260	61	U		50	U		390			190	U		180	U		220	U	

Polychlorinated Biphenyls

DATA SUMMARY TABLE

Sample ID	DN04G			DN04H			DN04I			DN04J			DN04K			DN04L		
Field ID	01NE28SD123			01NE28SD124			01NE28SD125			01NE28SD126			01NE28SD127			01NE28SD128		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/18/01			8/18/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aroclor 1016	240	U		100	U		67	U		200	U		140	U		180	U	
aroclor 1221	470	U		210	U		130	U		390	U		270	U		360	U	
aroclor 1232	240	U		100	U		67	U		200	U		140	U		180	U	
aroclor 1242	240	U		100	U		67	U		200	U		140	U		180	U	
aroclor 1248	240	U		100	U		67	U		200	U		140	U		180	U	
aroclor 1254	240	U		100	U		67	U		200	U		140	U		180	U	
aroclor 1260	240	U		100	U		67	U		200	U		140	U		180	U	

Poly .orinated Biphenyls — DATA SUM. .Y TABLE

Sample ID	DN04M			DN04N			DN04O			DN04P			DN04P-RE			DN04Q		
Field ID	01NE28SD225			01NE28SD129			01NE28SD130			01NE28SD131			01NE28SD131			01NE28SD132		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/18/01			8/18/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
aroclor 1016	62	U		130	U		170	U		64	U		64	UJ	b	180	U	
aroclor 1221	120	U		260	U		350	U		130	U		130	UJ	b	360	U	
aroclor 1232	62	U		130	U		170	U		64	U		64	UJ	b	180	U	
aroclor 1242	62	U		130	U		170	U		64	U		64	UJ	b	180	U	
aroclor 1248	62	U		130	U		170	U		64	U		64	UJ	b	180	U	
aroclor 1254	62	U		130	U		200			160			130	J	b	180	U	
aroclor 1260	62	U		130	U		310			140			140	J	b	190		

Polychlorinated Biphenyls **DATA SUMMARY TABLE**

Sample ID	DN04R			DN04S						
Field ID	01NE28SD133			01NE28SD134						
Matrix	SX			SX						
Date Collected	8/18/01			8/18/01						
Units	µg/Kg			µg/Kg						
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**				
aroclor 1016	150	U		150	U					
aroclor 1221	300	U		300	U					
aroclor 1232	150	U		150	U					
aroclor 1242	150	U		150	U					
aroclor 1248	150	U		150	U					
aroclor 1254	150	U		150	U					
aroclor 1260	150	U		150	U					

Sample ID	DN05A			DN05B			DN05C			DN05D			DN05E			DN05F		
Field ID	01NE28SD153			01NE28SD154			01NE28SD155			01NE28SD156			01NE28SD157			01NE28SD158		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aroclor 1016	47	U		50	U		61	U		61	U		47	U		46	U	
aroclor 1221	94	U		100	U		120	U		120	U		94	U		91	U	
aroclor 1232	47	U		50	U		61	U		61	U		47	U		46	U	
aroclor 1242	47	U		50	U		120			61	U		47	U		46	U	
aroclor 1248	47	U		50	U		61	U		61	U		47	U		46	U	
aroclor 1254	150			170			1700			520			47	U		48		
aroclor 1260	94			82			700			230			47	U		46	U	

Polychlorinated Biphenyls

DATA SUMMARY TABLE

	Sample ID	DN05G			DN05H						
	Field ID	01NE28SD253			01NE28SD257						
	Matrix	SX			SX						
	Date Collected	8/19/01			8/19/01						
	Units	µg/Kg			µg/Kg						
Analyte		**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**				
aroclor 1016		40	U		49	U					
aroclor 1221		80	U		97	U					
aroclor 1232		40	U		49	U					
aroclor 1242		40	U		49	U					
aroclor 1248		40	U		49	U					
aroclor 1254		170			49	U					
aroclor 1260		99			49	U					

Sample ID	DN06A			DN06B			DN06C			DN06D			DN06E			DN06F		
Field ID	01NE28SD135			01NE28SD136			01NE28SD137			01NE28SD138			01NE28SD139			01NE28SD140		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
aroclor 1016	45	U		80	U		60	U		65	U		78	U		110	U	
aroclor 1221	89	U		160	U		120	U		130	U		160	U		220	U	
aroclor 1232	45	U		80	U		60	U		65	U		78	U		110	U	
aroclor 1242	45	U		80	U		60	U		65	U		78	U		110	U	
aroclor 1248	45	U		80	U		60	U		65	U		78	U		110	U	
aroclor 1254	45	U		100			60	U		65	U		78	U		110	U	
aroclor 1260	45	U		250			60	U		65	U		78	U		110	U	

Polychlorinated Biphenyls

DATA SUMMARY TABLE

	Sample ID	DN06G			DN06H			DN06I			DN06J			DN06K			DN06L		
	Field ID	01NE28SD239			01NE28SD141			01NE28SD142			01NE28SD143			01NE28SD144			01NE28SD145		
	Matrix	SX			SX			SX			SX			SX			SX		
	Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			8/19/01		
	Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte		**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aroclor 1016		81	U		70	U		78	U		95	U		78	U		77	U	
aroclor 1221		160	U		140	U		160	U		190	U		160	U		150	U	
aroclor 1232		81	U		70	U		78	U		95	U		78	U		77	U	
aroclor 1242		81	U		70	U		78	U		95	U		78	U		77	U	
aroclor 1248		81	U		70	U		78	U		95	U		78	U		77	U	
aroclor 1254		81	U		70	U		78	U		95	U		78	U		77	U	
aroclor 1260		81	U		70	U		78	U		95	U		78	U		77	U	

Poly rinated Biphenyls — DATA SUM TABLE

Sample ID	DN06M			DN06N			DN06O			DN06P			DN06Q			DN06R		
Field ID	01NE28SD146			01NE28SD147			01NE28SD148			01NE28SD149			01NE28SD150			01NE28SD151		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
aroclor 1016	95	U		41	U		82	U		44	U		47	U		47	U	
aroclor 1221	190	U		82	U		160	U		87	U		94	U		94	U	
aroclor 1232	95	U		41	U		82	U		44	U		47	U		47	U	
aroclor 1242	95	U		41	U		82	U		44	U		47	U		47	U	
aroclor 1248	95	U		41	U		82	U		44	U		47	U		47	U	
aroclor 1254	95	U		41	U		82	U		260			47	U		47	U	
aroclor 1260	95	U		41	U		82	U		150			47	U		47	U	

Polychlorinated Biphenyls **DATA SUMMARY TABLE**

Sample ID	DN06S			DN06T						
Field ID	01NE28SD251			01NE28SD152						
Matrix	SX			SX						
Date Collected	8/19/01			8/19/01						
Units	µg/Kg			µg/Kg						
Analyte	RESULT	Q	RC	RESULT	Q	RC				
aroclor 1016	45	U		54	U					
aroclor 1221	90	U		110	U					
aroclor 1232	45	U		54	U					
aroclor 1242	45	U		54	U					
aroclor 1248	45	U		54	U					
aroclor 1254	45	U		54	U					
aroclor 1260	45	U		54	U					

Poly. .orinated Biphenyls

DATA SUM. .Y TABLE

Sample ID	DN07D			DN07E			DN07F			DN07G			DN07G-RE			DN07H		
Field ID	01NE28SD111			01NE28SD211			01NE28SD112			01NE28SD113			01NE28SD113			01NE28SD114		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/18/01			8/18/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aroclor 1016	200	U		250	U		75	U		260	UJ	b	260	U		94	U	
aroclor 1221	410	U		500	U		150	U		510	UJ	b	510	U		190	U	
aroclor 1232	200	U		250	U		75	U		260	UJ	b	260	U		94	U	
aroclor 1242	200	U		250	U		75	U		260	UJ	b	260	U		94	U	
aroclor 1248	200	U		250	U		75	U		260	UJ	b	260	U		94	U	
aroclor 1254	200	U		250	U		75	U		260	UJ	b	260	U		94	U	
aroclor 1260	200	U		250	U		75	U		260	UJ	b	260	U		94	U	

Polychlorinated Biphenyls

DATA SUMMARY TABLE

	Sample ID	DN07I			DN07J			DN07K			DN07L			DN07N			DN07O		
	Field ID	01NE28SD115			01NE28SD116			01NE06SD116			01NE06SD117			01NE07SS125			01NE07SS126		
	Matrix	SX			SX			SX			SX			SX			SX		
	Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/19/01			8/19/01		
	Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte		**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aroclor 1016		230	U		53	U		130	U		43	U		39	U		71	U	
aroclor 1221		460	U		110	U		270	U		86	U		79	U		140	U	
aroclor 1232		230	U		53	U		130	U		43	U		39	U		71	U	
aroclor 1242		230	U		53	U		130	U		43	U		39	U		71	U	
aroclor 1248		230	U		53	U		130	U		43	U		39	U		71	U	
aroclor 1254		230	U		53	U		130	U		43	U		39	U		71	U	
aroclor 1260		230	U		53	U		130	U		43	U		1100			130		

Poly, orinated Biphenyls

DATA SUM. TABLE

Sample ID	DN07P			DN07P-DL			DN07Q			DN07R				
Field ID	01NE07SS127			01NE07SS127			01NE07SD105			01NE07SD104				
Matrix	SX			SX			SX			SX				
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01				
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg				
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC		
aroclor 1016	44	U		880	U		280	U		79	U			
aroclor 1221	88	U		1800	U		560	U		160	U			
aroclor 1232	44	U		880	U		280	U		79	U			
aroclor 1242	44	U		880	U		280	U		79	U			
aroclor 1248	44	U		880	U		280	U		79	U			
aroclor 1254	44	U		880	U		280	U		79	U			
aroclor 1260				13000			280	U		79	U			

Polychlorinated Biphenyls

DATA SUMMARY TABLE

	Sample ID	DN36A			DN36B			DN36C			DN36D			DN36E			DN36F		
	Field ID	01NE29SW117			01NE29SW217			01NE29SW116			01NE29SW115			01NE29SW114			01NE28SW116		
	Matrix	WX			WX			WX			WX			WX			WX		
	Date Collected	8/20/01			8/20/01			8/21/01			8/21/01			8/21/01			8/20/01		
	Units	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Analyte		**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aroclor 1016		1	U		1	U		1	U		1	U		1	U		1	U	
aroclor 1221		2	U		2	U		2	U		2	U		2	U		2	U	
aroclor 1232		1	U		1	U		1	U		1	U		1	U		1	U	
aroclor 1242		1	U		1	U		1	U		1	U		1	U		1	U	
aroclor 1248		1	U		1	U		1	U		1	U		1	U		1	U	
aroclor 1254		1	U		1	U		1	U		1	U		1	U		1	U	
aroclor 1260		1	U		1	U		1	U		1	U		1	U		1	U	

Po. orinated Biphenyls DATA SUI :Y TABLE

Sample ID	DN38A			DN38B			DN38C			DN38D			DN38E			DN38F		
Field ID	01NE29SD114			01NE29SD214			01NE29SD115			01NE29SD116			01NE29SD117			01NE29SD118		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/21/01			8/21/01			8/21/01			8/21/01			8/21/01			8/21/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
aroclor 1016	60	U		65	U		50	U		52	U		37	U		45	U	
aroclor 1221	120	U		130	U		100	U		100	U		74	U		89	U	
aroclor 1232	60	U		65	U		50	U		52	U		37	U		45	U	
aroclor 1242	60	U		65	U		50	U		52	U		37	U		45	U	
aroclor 1248	60	U		65	U		50	U		52	U		37	U		45	U	
aroclor 1254	60	U		65	U		50	U		52	U		37	U		45	U	
aroclor 1260	60	U		65	U		50	U		52	U		37	U		45	U	

Polychlorinated Biphenyls

DATA SUMMARY TABLE

Sample ID	DN38G			DN38H			DN38I			DN38J			DN38K			DN38L		
Field ID	01NE29SD119			01NE28SD165			01NE28SD166			01NE28SD167			01NE28SD168			01NE28SD169		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/21/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aroclor 1016	38	U		50	U		44	U		170	U		40	U		44	U	
aroclor 1221	75	U		100	U		87	U		340	U		79	U		89	U	
aroclor 1232	38	U		50	U		44	U		170	U		40	U		44	U	
aroclor 1242	38	U		50	U		44	U		170	U		40	U		44	U	
aroclor 1248	38	U		50	U		44	U		170	U		40	U		44	U	
aroclor 1254	38	U		50	U		44	U		170	U		40	U		153	U	
aroclor 1260	38	U		150			44	U		5400			680			440		

Analyte	Sample ID	Field ID	Matrix	Date Collected	Units	RESULT	Q	RC					
		DN38M	01NE28SD170	SX	8/20/01	µg/Kg							
aroclor 1016						49	UJ	b					
aroclor 1221						98	UJ	b					
aroclor 1232						49	UJ	b					
aroclor 1242						49	UJ	b					
aroclor 1248						49	UJ	b					
aroclor 1254						188	UJ	b					
aroclor 1260						540							

Polychlorinated Biphenyls

DATA SUMMARY TABLE

	Sample ID	DN39A			DN39B			DN39C			DN39D			DN39E			DN39F		
	Field ID	01NE28SD159			01NE28SD160			01NE28SD161			01NE28SD163			01NE28SD164			01NE28SD263		
	Matrix	SX			SX			SX			SX			SX			SX		
	Date Collected	8/20/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
	Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte		**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aroclor 1016		49	U		49	U		52	U		47	U		47	U		48	U	
aroclor 1221		98	U		99	U		100	U		94	U		94	U		97	U	
aroclor 1232		49	U		49	U		52	U		47	U		47	U		48	U	
aroclor 1242		49	U		49	U		52	U		47	U		47	U		48	U	
aroclor 1248		49	U		49	U		52	U		47	U		47	U		48	U	
aroclor 1254		61			49	U		52	U		73			47	U		110		
aroclor 1260		140			63			52	U		180			47	U		170		

Poly rinated Biphenyls — DATA SUM / TABLE

Sample ID	DN39G			DN39H			DN39I			DN39J			DN39K			DN39L		
Field ID	01NE28SD171			01NE28SD172			01NE28SD173			01NE28SD174			01NE28SD175			01NE28SD176		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/20/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
aroclor 1016	250	U		290	UJ	b	120	U		71	U		180	U		290	U	
aroclor 1221	500	U		570	UJ	b	250	U		140	U		360	U		590	U	
aroclor 1232	250	U		290	UJ	b	120	U		71	U		180	U		290	U	
aroclor 1242	250	U		290	UJ	b	120	U		71	U		180	U		290	U	
aroclor 1248	250	U		290	UJ	b	120	U		71	U		180	U		290	U	
aroclor 1254	250	U		290	UJ	b	120	U		71	U		180	U		290	U	
aroclor 1260	250	U		290	UJ	b	120	U		71	U		180	U		290	U	

Polychlorinated Biphenyls

DATA SUMMARY TABLE

Sample ID	DN39M			DN39N			DN39O			DN39P			DN39Q			DN39R		
Field ID	01NE28SD271			01NE28SD275			01NE28SD177			01NE28SD178			01NE28SD179			01NE28SD180		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/20/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aroclor 1016	230	U		170	U		120	U		110	U		43	U		74	U	
aroclor 1221	450	U		340	U		230	U		220	U		87	U		150	U	
aroclor 1232	230	U		170	U		120	U		110	U		43	U		74	U	
aroclor 1242	230	U		170	U		120	U		110	U		43	U		74	U	
aroclor 1248	230	U		170	U		120	U		110	U		43	U		74	U	
aroclor 1254	230	U		170	U		120	U		110	U		43	U		74	U	
aroclor 1260	230	U		170	U		120	U		110	U		43	U		74	U	

Poly ·rinated Biphenyls DATA SUM. / TABLE

Sample ID	DN39S			DN39T						
Field ID	01NE28SD181			01NE28SD182						
Matrix	SX			SX						
Date Collected	8/20/01			8/20/01						
Units	µg/Kg			µg/Kg						
Analyte	RESULT	Q	RC	RESULT	Q	RC				
aroclor 1016	47	U		110	U					
aroclor 1221	94	U		230	U					
aroclor 1232	47	U		110	U					
aroclor 1242	47	U		110	U					
aroclor 1248	47	U		110	U					
aroclor 1254	47	U		110	U					
aroclor 1260	47	U		110	U					

Polychlorinated Biphenyls

DATA SUMMARY TABLE

Sample ID	DN40A			DN40A-RE			DN40B			DN40B-RE			DN40C			DN40C-RE		
Field ID	01NE29SD123			01NE29SD123			01NE29SD124			01NE29SD124			01NE29SD125			01NE29SD125		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/21/01			8/21/01			8/21/01			8/21/01			8/21/01			8/21/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aroclor 1016	73	U		73	UJ	e	48	U		48	UJ	e	48	U		48	UJ	e
aroclor 1221	150	U		150	UJ	e	96	U		96	UJ	e	96	U		96	UJ	e
aroclor 1232	73	U		73	UJ	e	48	U		48	UJ	e	48	U		48	UJ	e
aroclor 1242	73	U		73	UJ	e	48	U		48	UJ	e	48	U		48	UJ	e
aroclor 1248	73	U		73	UJ	e	48	U		48	UJ	e	48	U		48	UJ	e
aroclor 1254	73	U		73	UJ	e	48	U		48	UJ	e	48	U		48	UJ	e
aroclor 1260	73	U		73	UJ	e	48	U		48	UJ	e	48	U		48	UJ	e

Poly. .inated Biphenyls DATA SUM TABLE

Sample ID	DN40D			DN40D-RE			DN40E			DN40E-RE			DN40F			DN40F-RE		
Field ID	01NE29SD225			01NE29SD225			01NE29SD128			01NE29SD128			01NE29SD129			01NE29SD129		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/21/01			8/21/01			8/21/01			8/21/01			8/21/01			8/21/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
aroclor 1016	51	U		52	UJ	e	49	U		49	UJ	e	38	U		38	UJ	e
aroclor 1221	100	U		100	UJ	e	97	U		98	UJ	e	76	U		77	UJ	e
aroclor 1232	51	U		52	UJ	e	49	U		49	UJ	e	38	U		38	UJ	e
aroclor 1242	51	U		52	UJ	e	49	U		49	UJ	e	38	U		38	UJ	e
aroclor 1248	51	U		52	UJ	e	49	U		49	UJ	e	38	U		38	UJ	e
aroclor 1254	51	U		52	UJ	e	49	U		49	UJ	e	38	U		38	UJ	e
aroclor 1260	51	U		52	UJ	e	49	U		49	UJ	e	38	U		38	UJ	e

Polychlorinated Biphenyls

DATA SUMMARY TABLE

	Sample ID	DN40G			DN40G-RE			DN40H			DN40H-RE			DN40I			DN40I-RE		
	Field ID	01NE29SD120			01NE29SD120			01NE29SD121			01NE29SD121			01NE29SD122			01NE29SD122		
	Matrix	SX			SX			SX			SX			SX			SX		
	Date Collected	8/21/01			8/21/01			8/21/01			8/21/01			8/21/01			8/21/01		
	Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte		**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aroclor 1016		41	U		41	UJ	e	36	U		36	UJ	e	40	U		40	UJ	e
aroclor 1221		81	U		81	UJ	e	72	U		72	UJ	e	80	U		80	UJ	e
aroclor 1232		41	U		41	UJ	e	36	U		36	UJ	e	40	U		40	UJ	e
aroclor 1242		41	U		41	UJ	e	36	U		36	UJ	e	40	U		40	UJ	e
aroclor 1248		41	U		41	UJ	e	36	U		36	UJ	e	40	U		40	UJ	e
aroclor 1254		41	U		41	UJ	e	36	U		36	UJ	e	40	U		40	UJ	e
aroclor 1260		41	U		41	UJ	e	36	U		36	UJ	e	40	U		40	UJ	e

Po.. .orinated Biphenyls DATA SU .RY TABLE

Sample ID	DN40M			DN40M-RE			DN40N			DN40N-RE				
Field ID	01NE29SD127			01NE29SD127			01NE29SD126			01NE29SD126				
Matrix	SX			SX			SX			SX				
Date Collected	8/21/01			8/21/01			8/21/01			8/21/01				
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg				
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC		
aroclor 1016	50	U		50	UJ	e	47	U		47	UJ	e		
aroclor 1221	100	U		100	UJ	e	94	U		94	UJ	e		
aroclor 1232	50	U		50	UJ	e	47	U		47	UJ	e		
aroclor 1242	50	U		50	UJ	e	47	U		47	UJ	e		
aroclor 1248	50	U		50	UJ	e	47	U		47	UJ	e		
aroclor 1254	50	U		50	UJ	e	47	U		47	UJ	e		
aroclor 1260	50	U		50	UJ	e	47	U		47	UJ	e		

Polychlorinated Biphenyls

DATA SUMMARY TABLE

	Sample ID	DN53A			DN53B			DN53F			DN53G				
	Field ID	01NE09SW109			01NE09SW107			01NE09SW207			01NE09SW108				
	Matrix	WX			WX			WX			WX				
	Date Collected	8/23/01			8/23/01			8/23/01			8/23/01				
	Units	µg/L			µg/L			µg/L			µg/L				
Analyte		**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**		
aroclor 1016		1	U		1	U		1	U		1	U			
aroclor 1221		2	U		2	U		2	U		2	U			
aroclor 1232		1	U		1	U		1	U		1	U			
aroclor 1242		1	U		1	U		1	U		1	U			
aroclor 1248		1	U		1	U		1	U		1	U			
aroclor 1254		1	U		1	U		1	U		1	U			
aroclor 1260		1	U		1	U		1	U		1	U			

Poly ·rinated Biphenyls — DATA SUM .Y TABLE

	Sample ID	DN55A			DN55B			DN55C			DN55D			DN55E			DN55F		
	Field ID	01NE33SS101			01NE33SS102			01NE33SS103			01NE34SS101			01NE34SS102			01NE34SS103		
	Matrix	SX			SX			SX			SX			SX			SX		
	Date Collected	8/23/01			8/23/01			8/23/01			8/23/01			8/23/01			8/23/01		
	Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte		RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
aroclor 1016		36	U		39	U		36	U		45	U		41	U		40	U	
aroclor 1221		72	U		77	U		72	U		89	U		82	U		81	U	
aroclor 1232		36	U		39	U		36	U		45	U		41	U		40	U	
aroclor 1242		36	U		39	U		36	U		45	U		41	U		40	U	
aroclor 1248		36	U		39	U		36	U		45	U		41	U		40	U	
aroclor 1254		36	U		39	U		36	U		45	U		41	U		40	U	
aroclor 1260		36	U		39	U		36	U		45	U		41	U		40	U	

Polychlorinated Biphenyls

DATA SUMMARY TABLE

	Sample ID	DN55I			DN55J			DN55K			DN55L				
	Field ID	01NE34SS107			01NE34SS108			01NE34SS109			01NE34SS110				
	Matrix	SX			SX			SX			SX				
	Date Collected	8/23/01			8/23/01			8/23/01			8/23/01				
	Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg				
Analyte		**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**		
aroclor 1016		37	U		43	U		39	U		41	U			
aroclor 1221		75	U		85	U		78	U		83	U			
aroclor 1232		37	U		43	U		39	U		41	U			
aroclor 1242		37	U		43	U		39	U		41	U			
aroclor 1248		37	U		43	U		39	U		41	U			
aroclor 1254		50			250			150			170				
aroclor 1260		37	U		110			63			64				

Orga. .lorine Pesticides / PCBs DATA SUMM TABLE

Sample ID	DN68N			DN68N-DL			DN68O			DN68O-DL			DN68P			DN68P-DL		
Field ID	01NE31SS101			01NE31SS101			01NE31SS102			01NE31SS102			01NE31SS202			01NE31SS202		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
4,4'-DDD	3.5	U		35	U		3.7	U		37	U		3.8	U		38	U	
4,4'-DDE	2.6	U		35	U		3.7	U		37	U		5.6	U		38	U	
4,4'-DDT	210	U		300	U		97	U		160	U		120	U		190	U	
aldrin	1.8	U		18	U		1.9	U		19	U		1.9	U		19	U	
alpha-BHC	1.8	U		18	U		1.9	U		19	U		1.9	U		19	U	
alpha-chlordane	1.8	U		18	U		1.9	U		19	U		1.9	U		19	U	
aroclor 1016	35	U		350	U		37	U		370	U		38	U		380	U	
aroclor 1221	70	U		700	U		74	U		740	U		76	U		760	U	
aroclor 1232	35	U		350	U		37	U		370	U		38	U		380	U	
aroclor 1242	35	U		350	U		37	U		370	U		38	U		380	U	
aroclor 1248	35	U		350	U		37	U		370	U		38	U		380	U	
aroclor 1254	35	U		350	U		37	U		370	U		38	U		380	U	
aroclor 1260				6700			3200	J	o	4700						4800		
beta-BHC	1.8	U		18	U		1.9	U		19	U		1.9	U		19	U	
delta-BHC	1.8	U		18	U		1.9	U		19	U		1.9	U		19	U	
dieldrin	43	U		59	U		27	U		38	U		35	U		46	U	
endosulfan I	1.8	U		18	U		1.9	U		19	U		1.9	U		19	U	
endosulfan II	3.5	U		35	U		3.7	U		37	U		3.8	U		38	U	
endosulfan sulfate	34	U		360	U		170	U		250	U		180	U		250	U	
endrin	4.8	U		35	U		3.7	U		37	U		4.1	U		38	U	
endrin aldehyde	56	U		67	U		36	U		49	U		40	U		49	U	
endrin ketone	3.5	U		35	U		3.7	U		37	U		3.8	U		38	U	
gamma-BHC	1.8	U		18	U		1.9	U		19	U		1.9	U		19	U	
gamma-chlordane	1.8	U		18	U		1.9	U		19	U		1.9	U		19	U	
heptachlor	1.8	U		18	U		1.9	U		19	U		1.9	U		19	U	
heptachlor epoxide	1.8	U		18	U		1.9	U		19	U		1.9	U		19	U	
methoxychlor	37	U		180	U		22	U		32	U		25	U		190	U	
toxaphene	180	U		1800	U		190	U		1900	U		190	U		1900	U	

Organochlorine Pesticides / PCBs

DATA SUMMARY TABLE

Sample ID	DN68Q			DN68Q-DL			DN68R			DN68R-DL			DN68U			DN68V		
Field ID	01NE31SS103			01NE31SS103			01NE31SS104			01NE31SS104			01NE32SS103			01NE32SS104		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
4,4'-DDD	3.5	U		35	U		3.5	U		35	U		4.3	UJ	b	3.5	U	
4,4'-DDE	3.5	U		35	U		3.5	U		35	U		4.3	UJ	b	3.5	U	
4,4'-DDT	130	U		190	U		78	U		160	U		4.3	UJ	b	8.6	U	
aldrin	1.8	U		18	U		1.8	U		18	U		2.2	UJ	b	1.7	U	
alpha-BHC	1.8	U		18	U		1.8	U		18	U		2.2	UJ	b	1.7	U	
alpha-chlordane	1.8	U		18	U		1.8	U		18	U		2.2	UJ	b	1.7	U	
aroclor 1016	35	U		350	U		35	U		350	U		43	UJ	b	35	U	
aroclor 1221	70	U		700	U		71	U		710	U		87	UJ	b	69	U	
aroclor 1232	35	U		350	U		35	U		350	U		43	UJ	b	35	U	
aroclor 1242	35	U		350	U		35	U		350	U		43	UJ	b	35	U	
aroclor 1248	35	U		350	U		35	U		350	U		43	UJ	b	35	U	
aroclor 1254	35	U		350	U		35	U		350	U		43	UJ	b	35	U	
aroclor 1260	3000	J	o	4100			3200	J	o	4400			43	UJ	b	160	J	b,c
beta-BHC	1.8	U		18	U		1.8	U		18	U		2.2	UJ	b	1.7	U	
delta-BHC	1.8	U		18	U		1.8	U		18	U		2.2	UJ	b	1.7	U	
dieldrin	28	U		36	U		28	U		39	U		4.3	UJ	b	3.5	U	
endosulfan I	1.8	U		18	U		1.8	U		18	U		2.2	UJ	b	1.7	U	
endosulfan II	3.5	U		35	U		3.5	U		35	U		4.3	UJ	b	3.5	U	
endosulfan sulfate	160	U		220	U		170	U		240	U		4.3	UJ	b	8.8	U	
endrin	3.5	U		35	U		3.5	U		35	U		4.3	UJ	b	3.5	U	
endrin aldehyde	32	U		40	U		34	U		43	U		4.3	UJ	b	3.5	U	
endrin ketone	3.5	U		35	U		3.5	U		35	U		4.3	UJ	b	3.5	U	
gamma-BHC	1.8	U		18	U		1.8	U		18	U		2.2	UJ	b	1.7	U	
gamma-chlordane	1.8	U		18	U		1.8	U		18	U		2.2	UJ	b	1.7	U	
heptachlor	1.8	U		18	U		1.8	U		18	U		2.2	UJ	b	1.7	U	
heptachlor epoxide	1.8	U		18	U		1.8	U		18	U		2.2	UJ	b	1.7	U	
methoxychlor	24	U		180	U		24	U		180	U		22	UJ	b	17	U	
toxaphene	180	U		1800	U		180	U		1800	U		220	UJ	b	170	U	

Poly[illegible]rinated Biphenyls — DATA SUMM[illegible] TABLE

Sample ID	DN68A			DN68B			DN68F			DN68M				
Field ID	01NE21SS169			01NE21SS269			01NE09SD114			01NE34SS104				
Matrix	SX			SX			SX			SX				
Date Collected	8/24/01			8/24/01			8/24/01			8/23/01				
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg				
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**		
aroclor 1016	180	U		180	U		200	U		38	U			
aroclor 1221	360	U		370	U		390	U		76	U			
aroclor 1232	180	U		180	U		200	U		38	U			
aroclor 1242	180	U		180	U		200	U		38	U			
aroclor 1248	180	U		180	U		200	U		38	U			
aroclor 1254	180	U		180	U		200	U		590				
aroclor 1260	180	U		180	U		200	U		470				

Organochlorine Pesticides / PCBs

DATA SUMMARY TABLE

Sample ID	DN69N			DN69O			DN69O-DL			DN69P			DN69P-DL			DN69Q		
Field ID	01NE31SS121			01NE31SS122			01NE31SS122			01NE31SS123			01NE31SS123			01NE31SS124		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
4,4'-DDD	5.8	U		71	U		71	U		7.3	U		73	U		3.8	U	
4,4'-DDE	5.8	U		5.7	U		37	U		17	U		73	U		3.8	U	
4,4'-DDT	5.8	U		160	U		160	U		610	U		930	U		14	U	
aldrin	2.9	U		1.9	U		19	U		3.6	U		36	U		1.9	U	
alpha-BHC	2.9	U		1.9	U		19	U		3.6	U		36	U		1.9	U	
alpha-chlordane	2.9	U		1.9	U		19	U		3.6	U		36	U		1.9	U	
aroclor 1016	58	U		37	U		370	U		73	U		730	U		38	U	
aroclor 1221	120	U		75	U		750	U		150	U		1500	U		77	U	
aroclor 1232	58	U		190	U		370	U		73	U		730	U		38	U	
aroclor 1242	58	U		37	U		370	U		73	U		730	U		38	U	
aroclor 1248	58	U		100	U		370	U		73	U		730	U		38	U	
aroclor 1254	58	U		66	U		370	U		73	U		730	U		38	U	
aroclor 1260	58	U		410	U		370	U					22000			360		
beta-BHC	2.9	U		10	U		19	U		3.6	U		36	U		1.9	U	
delta-BHC	2.9	U		7.8	U		19	U		3.6	U		36	U		1.9	U	
dieldrin	5.8	U		7.2	U		37	U		140	U		210	U		3.8	U	
endosulfan I	2.9	U		7.8	U		19	U		3.6	U		36	U		1.9	U	
endosulfan II	5.8	U		3.7	U		37	U		7.3	U		73	U		3.8	U	
endosulfan sulfate	5.8	U		75			64	U		400	U		1200	U		21	U	
endrin	5.8	U		3.7	U		37	U		14	U		73	U		3.8	U	
endrin aldehyde	5.8	U		3.7	U		37	U		170	U		220	U		3.8	U	
endrin ketone	5.8	U		16	U		37	U		7.3	U		73	U		3.8	U	
gamma-BHC	2.9	U		1.9	U		19	U		3.6	U		36	U		1.9	U	
gamma-chlordane	2.9	U		4	U		19	U		36	U		42	U		1.9	U	
heptachlor	2.9	U		3.4	U		19	U		3.6	U		36	U		1.9	U	
heptachlor epoxide	2.9	U		1.9	U		19	U		3.6	U		36	U		1.9	U	
methoxychlor	29	U		19	U		190	U		100	U		360	U		19	U	
toxaphene	290	U		190	U		1900	U		360	U		3600	U		190	U	

Poly ..rinated Biphenyls **DATA SUM. .f TABLE**

Sample ID	DN69A			DN69B			DN69C			DN69D			DN69E			DN69F		
Field ID	01NE21SB169			01NE21SB170			01NE21SS170			01NE21SB171			01NE21SS171			01NE21SS172		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aroclor 1016	45	U		49	U		77	U		39	U		52	U		130	U	
aroclor 1221	91	U		98	U		150	U		79	U		100	U		270	U	
aroclor 1232	45	U		49	U		77	U		39	U		52	U		130	U	
aroclor 1242	45	U		49	U		77	U		39	U		52	U		130	U	
aroclor 1248	45	U		49	U		77	U		39	U		52	U		130	U	
aroclor 1254	45	U		49	U		140			39	U		52	U		130	U	
aroclor 1260	45	U		49	U		150			39	U		52	U		130	U	

Polychlorinated Biphenyls

DATA SUMMARY TABLE

Sample ID	DN69G			DN69H			DN69I			DN69J			DN69K			DN69K-DL		
Field ID	01NE21SS173			01NE21SD113			01NE21SD114			01NE14SS101			01NE14SS102			01NE14SS102		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aroclor 1016	57	U		65	U		84	U		360	U		37	U		730	U	
aroclor 1221	110	U		130	U		170	U		730	U		73	U		1500	U	
aroclor 1232	57	U		65	U		84	U		360	U		37	U		730	U	
aroclor 1242	57	U		65	U		84	U		360	U		37	U		730	U	
aroclor 1248	57	U		65	U		84	U		360	U		37	U		730	U	
aroclor 1254	140			65	U		84	U		360	U		37	U		730	U	
aroclor 1260	180			65	U		84	U		3600						19000		

Sample ID	DN69L			DN69M						
Field ID	01NE14SS103			01NE14SS203						
Matrix	SX			SX						
Date Collected	8/24/01			8/24/01						
Units	µg/Kg			µg/Kg						
Analyte	RESULT	Q	RC	RESULT	Q	RC				
aroclor 1016	37	U		37	U					
aroclor 1221	74	U		74	U					
aroclor 1232	37	U		37	U					
aroclor 1242	37	U		37	U					
aroclor 1248	37	U		37	U					
aroclor 1254	37	U		37	U					
aroclor 1260	200			300						

Polychlorinated Biphenyls

DATA SUMMARY TABLE

Sample ID	DN71A			DN71B			DN71D			DN71E			DN71F			DN71G		
Field ID	01NE09SW112			01NE09WP102			01NE09MW103			01NE09SW111			01NE24SW114			01NE24SW214		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/26/01			8/26/01			8/26/01			8/26/01			8/24/01			8/24/01		
Units	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aroclor 1016	1	U		1	U		1	UJ	b	1	U		1	U		1	U	
aroclor 1221	2	U		2	U		2	UJ	b	2	U		2	U		2	U	
aroclor 1232	1	U		1	U		1	UJ	b	1	U		1	U		1	U	
aroclor 1242	1	U		1	U		1	UJ	b	1	U		1	U		1	U	
aroclor 1248	1	U		1	U		1	UJ	b	1	U		1	U		1	U	
aroclor 1254	1	U		1	U		1	UJ	b	1	U		1	U		1	U	
aroclor 1260	1	U		1	U		1	UJ	b	1	U		1	U		1	U	

Poly inated Biphenyls DATA SUMI TABLE

Sample ID	DN71M			DN71P						
Field ID	01NE21SW113			01NE09SW110						
Matrix	WX			WX						
Date Collected	8/24/01			8/25/01						
Units	µg/L			µg/L						
Analyte	RESULT	Q	RC	RESULT	Q	RC				
aroclor 1016	1	U		1	U					
aroclor 1221	2	U		2	U					
aroclor 1232	1	U		1	U					
aroclor 1242	1	U		1	U					
aroclor 1248	1	U		1	U					
aroclor 1254	1	U		1	U					
aroclor 1260	1	U		1	U					

Polychlorinated Biphenyls **DATA SUMMARY TABLE**

	Sample ID	DN73C			DN73M						
	Field ID	01NE06WP103			01NE21SW114						
	Matrix	WX			WX						
	Date Collected	8/25/01			8/21/01						
	Units	µg/L			µg/L						
Analyte		RESULT	Q	RC	RESULT	Q	RC				
aroclor 1016		1	U		1	UJ	e				
aroclor 1221		2	U		2	UJ	e				
aroclor 1232		1	U		1	UJ	e				
aroclor 1242		1	U		1	UJ	e				
aroclor 1248		1	U		1	UJ	e				
aroclor 1254		1	U		1	UJ	e				
aroclor 1260		1	U		1	UJ	e				

Sample ID	DN76N							
Field ID	01NE32SS105							
Matrix	SX							
Date Collected	8/24/01							
Units	µg/Kg							
Analyte	RESULT	Q	RC					
4,4'-DDD	3.6	UJ	b					
4,4'-DDE	3.6	UJ	b					
4,4'-DDT	37	UJ	b					
aldrin	1.8	UJ	b					
alpha-BHC	1.8	UJ	b					
alpha-chlordane	1.8	UJ	b					
aroclor 1016	36	UJ	b					
aroclor 1221	72	UJ	b					
aroclor 1232	36	UJ	b					
aroclor 1242	36	UJ	b					
aroclor 1248	36	UJ	b					
aroclor 1254	36	UJ	b					
aroclor 1260	890	J	b					
beta-BHC	1.8	UJ	b					
delta-BHC	1.8	UJ	b					
dieldrin	11	UJ	b					
endosulfan I	1.8	UJ	b					
endosulfan II	3.6	UJ	b					
endosulfan sulfate	7.3	UJ	b					
endrin	3.6	UJ	b					
endrin aldehyde	7.8	UJ	b					
endrin ketone	3.6	UJ	b					
gamma-BHC	1.8	UJ	b					
gamma-chlordane	2.8	UJ	b					
heptachlor	1.8	UJ	b					
heptachlor epoxide	1.8	UJ	b					
methoxychlor	3.1	UJ	b					
toxaphene	180	UJ	b					

Polychlorinated Biphenyls

DATA SUMMARY TABLE

Sample ID	DN76A			DN76C			DN76D			DN76E			DN76J			DN76K		
Field ID	01NE16SS165			01NE16SS166			01NE09SD107			01NE09SD108			01NE09SD109			01NE09SD213		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/23/01			8/23/01			8/23/01			8/23/01			8/24/01			8/24/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aroclor 1016	37	U		41	U		230	U		120	U		92	U		110	U	
aroclor 1221	75	U		82	U		460	U		250	U		180	U		220	U	
aroclor 1232	37	U		41	U		230	U		120	U		92	U		110	U	
aroclor 1242	37	U		41	U		230	U		120	U		98	U		110	U	
aroclor 1248	37	U		41	U		230	U		120	U		92	U		110	U	
aroclor 1254	37	U		41	U		230	U		120	U		150	U		110	U	
aroclor 1260	37	U		62			230	U		120	U		460	U		110	U	

Poly ɔrinated Biphenyls DATA SUM .Y TABLE

Sample ID	DN76L			DN76M			DN76P					
Field ID	01NE24SD114			01NE24SD115			01NE09SD113					
Matrix	SX			SX			SX					
Date Collected	8/24/01			8/24/01			8/24/01					
Units	µg/Kg			µg/Kg			µg/Kg					
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC			
aroclor 1016	250	U		43	U		200	U				
aroclor 1221	490	U		87	U		410	U				
aroclor 1232	250	U		43	U		200	U				
aroclor 1242	250	U		43	U		200	U				
aroclor 1248	250	U		43	U		200	U				
aroclor 1254	250	U		43	U		200	U				
aroclor 1260	250	U		43	U		200	U				

Polychlorinated Biphenyls

DATA SUMMARY TABLE

Sample ID	DN88A			DN88E			DN88F					
Field ID	01NE07WP102			01NE07WP101			01NE07WP103					
Matrix	WX			WX			WX					
Date Collected	8/27/01			8/28/01			8/27/01					
Units	µg/L			µg/L			µg/L					
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**			
aroclor 1016	1	U		1	U		1	U				
aroclor 1221	2	U		2	U		2	U				
aroclor 1232	1	U		1	U		1	U				
aroclor 1242	1	U		1	U		1	U				
aroclor 1248	1	U		1	U		1	U				
aroclor 1254	1	U		1	U		1	U				
aroclor 1260	1	U		1	U		1	U				

Sample ID	DQ74A			DQ74B			DQ74B-DL			DQ74C			DQ74C-DL			DQ74D		
Field ID	01NE16SS167			01NE16SS168			01NE16SS168			01NE28SD183			01NE28SD183			01NE28SD184		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	9/24/01			9/24/01			9/24/01			9/24/01			9/24/01			9/24/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
4,4'-DDD	3.7	UJ	b	6	J	b	19	UJ	b	200	J	b,o	210			27	J	b
4,4'-DDE	3.7	UJ	b	5	J	b	19	UJ	b	18	UJ	b	35	U		5.4	UJ	b
4,4'-DDT	11	J	b	140	J	b,o	120	J	b	14	UJ	b	35	U		5.4	UJ	b
aldrin	1.8	UJ	b	1.9	UJ	b	9.5	UJ	b	3.5	UJ	b	18	U		2.7	UJ	b
alpha-BHC	1.8	UJ	b	1.9	UJ	b	9.5	UJ	b	6.3	UJ	b	18	U		2.7	UJ	b
alpha-chlordane	1.8	UJ	b	1.9	UJ	b	9.5	UJ	b	3.5	UJ	b	18	U		2.7	UJ	b
beta-BHC	1.8	UJ	b	1.9	UJ	b	9.5	UJ	b	12	J	b	18	U		2.7	UJ	b
delta-BHC	1.8	UJ	b	1.9	UJ	b	9.5	UJ	b	3.5	UJ	b	18	U		2.7	UJ	b
dieldrin	3.7	UJ	b	3.8	UJ	b	19	UJ	b	11	UJ	b	35	U		5.4	UJ	b
endosulfan I	1.8	UJ	b	2.5	J	b	9.5	UJ	b	3.5	UJ	b	18	U		2.7	UJ	b
endosulfan II	3.7	UJ	b	3.8	UJ	b	19	UJ	b	7	UJ	b	35	U		5.4	UJ	b
endosulfan sulfate	3.7	UJ	b	3.8	UJ	b	19	UJ	b	11	UJ	b	35	U		5.4	UJ	b
endrin	3.7	UJ	b	3.8	UJ	b	19	UJ	b	7	UJ	b	35	U		5.4	UJ	b
endrin aldehyde	3.7	UJ	b	6.4	UJ	b	19	UJ	b	7	UJ	b	35	U		5.4	UJ	b
endrin ketone	3.7	UJ	b	3.8	UJ	b	19	UJ	b	7	UJ	b	35	U		5.4	UJ	b
gamma-BHC	1.8	UJ	b	1.9	UJ	b	9.5	UJ	b	3.9	UJ	b	18	U		2.7	UJ	b
gamma-chlordane	1.8	UJ	b	1.9	UJ	b	9.5	UJ	b	6.4	UJ	b	18	U		2.7	UJ	b
heptachlor	1.8	UJ	b	1.9	UJ	b	9.5	UJ	b	4.6	J	b	18	U		2.7	UJ	b
heptachlor epoxide	1.8	UJ	b	1.9	UJ	b	9.5	UJ	b	3.5	UJ	b	18	U		2.7	UJ	b
methoxychlor	18	UJ	b	19	UJ	b	95	UJ	b	35	UJ	b	180	U		27	UJ	b
toxaphene	180	UJ	b	190	UJ	b	950	UJ	b	350	UJ	b	1800	U		270	UJ	b

Organochlorine Pesticides / PCBs **DATA SUMMARY TABLE**

Sample ID	DQ74E			DQ74E-DL			DQ74F			DQ74F-DL			DQ74G			DQ74H		
Field ID	01NE28SD185			01NE28SD185			01NE28SD186			01NE28SD186			01NE28SD187			01NE28SD188		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	9/24/01			9/24/01			9/24/01			9/24/01			9/24/01			9/24/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
4,4'-DDD		J	b	1500			290	J	o	470			7.2	J	b	34	U	
4,4'-DDE	110	UJ	b	260	U		18	U		100	U		6.6	UJ	b	34	U	
4,4'-DDT	32	UJ	b	260	U		14	U		100	U		6.6	UJ	b	34	U	
aldrin	3.3	UJ	b	130	U		2.5	U		50	U		3.3	UJ	b	17	U	
alpha-BHC	4	UJ	b	130	U		4	U		50	U		3.3	UJ	b	17	U	
alpha-chlordane	3.3	UJ	b	130	U		2.5	U		50	U		3.3	UJ	b	17	U	
beta-BHC	6.4	UJ	b	130	U		6.3	U		50	U		3.3	UJ	b	17	U	
delta-BHC	3.3	UJ	b	130	U		2.5	U		50	U		3.3	UJ	b	17	U	
dieldrin	97	UJ	b	260	U		5	U		100	U		6.6	UJ	b	34	U	
endosulfan I	3.3	UJ	b	130	U		2.5	U		50	U		3.3	UJ	b	17	U	
endosulfan II	8.3	UJ	b	260	U		8.7	U		100	U		6.6	UJ	b	34	U	
endosulfan sulfate	58	UJ	b	260	U		8.6			100	U		6.6	UJ	b	34	U	
endrin	6.6	UJ	b	260	U		5	U		100	U		6.6	UJ	b	34	U	
endrin aldehyde	38	UJ	b	260	U		5	U		100	U		6.6	UJ	b	34	U	
endrin ketone	6.6	UJ	b	260	U		5	U		100	U		6.6	UJ	b	34	U	
gamma-BHC	3.3	UJ	b	130	U		6.5			50	U		3.3	UJ	b	17	U	
gamma-chlordane	32	UJ	b	130	U		6.4	U		50	U		3.3	UJ	b	17	U	
heptachlor	3.3	UJ	b	130	U		4.4			50	U		3.3	UJ	b	17	U	
heptachlor epoxide	3.3	UJ	b	130	U		2.5	U		50	U		3.3	UJ	b	17	U	
methoxychlor	33	UJ	b	1300	U		25	U		500	U		33	UJ	b	170	U	
toxaphene	330	UJ	b	13000	U		250	U		5000	U		330	UJ	b	1700	U	

Org. ...lorine Pesticides / PCBs — DATA SUM... TABLE

Sample ID	DQ74I			DQ74J			DQ74K			DQ74L			DQ74M			DQ74N		
Field ID	01NE28SD189			01NE28SD190			01NE28SD191			01NE28SD192			01NE28SD292			01NE28SD285		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	9/24/01			9/24/01			9/24/01			9/24/01			9/24/01			9/24/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
4,4'-DDD	31	U		10	UJ	b	15	J	b	7.2	UJ	b	7.1	UJ	b			
4,4'-DDE	31	U		10	UJ	b	5.3	UJ	b	4.3	UJ	b	6.5	UJ	b	82	UJ	b
4,4'-DDT	31	U		10	UJ	b	5.3	UJ	b	4.3	UJ	b	5	UJ	b	22	UJ	b
aldrin	15	U		5.2	UJ	b	2.6	UJ	b	2.2	UJ	b	2.1	UJ	b	2.8	UJ	b
alpha-BHC	15	U		5.2	UJ	b	2.9	UJ	b	2.2	UJ	b	2.1	UJ	b	2.8	UJ	b
alpha-chlordane	15	U		5.2	UJ	b	2.6	UJ	b	2.2	UJ	b	2.1	UJ	b	2.8	UJ	b
beta-BHC	15	U		5.2	UJ	b	9.2	UJ	b	2.2	UJ	b	2.1	UJ	b	3.9	J	b
delta-BHC	15	U		5.2	UJ	b	2.6	UJ	b	2.2	UJ	b	2.1	UJ	b	2.8	UJ	b
dieldrin	31	U		10	UJ	b	5.3	UJ	b	4.3	UJ	b	7.8	UJ	b	16	UJ	b
endosulfan I	15	U		5.2	UJ	b	2.6	UJ	b	2.2	UJ	b	2.1	UJ	b	2.8	UJ	b
endosulfan II	31	U		10	UJ	b	5.3	UJ	b	4.3	UJ	b	4.1	UJ	b	5.7	UJ	b
endosulfan sulfate	31	U		10	UJ	b	5.3	UJ	b	4.3	UJ	b	12	UJ	b	56	UJ	b
endrin	31	U		10	UJ	b	5.3	UJ	b	4.3	UJ	b	4.1	UJ	b	5.7	UJ	b
endrin aldehyde	31	U		10	UJ	b	5.3	UJ	b	4.3	UJ	b	4.1	UJ	b	35	UJ	b
endrin ketone	31	U		10	UJ	b	5.3	UJ	b	4.3	UJ	b	4.1	UJ	b	5.7	UJ	b
gamma-BHC	15	U		5.2	UJ	b	2.9	J	b	2.2	UJ	b	2.1	UJ	b	2.8	UJ	b
gamma-chlordane	15	U		5.2	UJ	b	2.6	UJ	b	2.2	UJ	b	3.8	UJ	b	26	UJ	b
heptachlor	15	U		5.2	UJ	b	2.6	UJ	b	2.2	UJ	b	2.1	UJ	b	2.8	UJ	b
heptachlor epoxide	15	U		5.2	UJ	b	2.6	UJ	b	2.2	UJ	b	2.1	UJ	b	2.8	UJ	b
methoxychlor	150	U		52	UJ	b	26	UJ	b	22	UJ	b	21	UJ	b	28	UJ	b
toxaphene	1500	U		520	UJ	b	260	UJ	b	220	UJ	b	210	UJ	b	280	UJ	b

Organochlorine Pesticides / PCBs **DATA SUMMARY TABLE**

Sample ID	DQ74N-DL							
Field ID	01NE28SD285							
Matrix	SX							
Date Collected	9/24/01							
Units	µg/Kg							
Analyte	**RESULT**	**Q**	**RC**					
4,4'-DDD	830							
4,4'-DDE	110	U						
4,4'-DDT	110	U						
aldrin	57	U						
alpha-BHC	57	U						
alpha-chlordane	57	U						
beta-BHC	57	U						
delta-BHC	57	U						
dieldrin	110	U						
endosulfan I	57	U						
endosulfan II	110	U						
endosulfan sulfate	110	U						
endrin	110	U						
endrin aldehyde	110	U						
endrin ketone	110	U						
gamma-BHC	57	U						
gamma-chlordane	57	U						
heptachlor	57	U						
heptachlor epoxide	57	U						
methoxychlor	570	U						
toxaphene	5700	U						

Pol. .lear Aromatic Hydrocarbons DATA SUM. .Y TABLE

Sample ID	100302-02			100302-03			100302-04			100302-05			100302-06			100302-08		
Field ID	01NE28SD311			01NE28SD325			01NE28SD351			01NE28SD353			01NE28SD357			01NE28SD339		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
2-chloronaphthalene	9.3	U		3.2	U		2900			14	U		20	U		3.6		
2-methylnaphthalene	17			1900	J	o	19000	J	o	2800			2200			4	J	n
acenaphthene	9.3	U		57			23	UJ	n	14	UJ	n	20	UJ	n	3.6	UJ	n
acenaphthylene	9.3	U		3.2	U		23	UJ	n	14	U		20	U		3.6	U	
anthracene	9.3	U		3.2	U		23	U		14	U		20	U		3.6	UJ	n
benzo(a)anthracene	19	U		6.4	U		45	U		24	J	m,n	41	U		7.3	UJ	n
benzo(a)pyrene	9.3	U		3.2	U		23	U		14	U		20	U		3.6	UJ	n
benzo(b)fluoranthene	9.3	U		3.2	U		86			14	U		20	U		3.6	UJ	n
benzo(g,h,I)perylene	9.3	U		3.2	U		23	U		14	U		20	U		3.6	UJ	n
benzo(k)fluoranthene	9.3	U		3.2	U		23	J	n	14	U		20	U		3.6	UJ	n
chrysene	19	U		6.4	U		120			48	J	n	41	U		7.3	UJ	n
dibenzo(a,h)anthracene	9.3	U		3.2	U		23	U		14	U		20	U		3.6	UJ	n
fluoranthene	110	J	c,f	3.2	U		23	U		14	U		20	U		3.6	UJ	n
fluorene	9.3	U		52	J	n	23	UJ	n	14	UJ	n	20	UJ	n	3.6	UJ	n
indeno(1,2,3,c,d)pyrene	9.3	U		3.2	U		23	U		14	U		20	U		3.6	UJ	n
naphthalene	14			1400			7600			14	UJ	n	1900			5.1	J	n
phenanthrene	55	J	c,f	16	J	n	780			230			20	U		3.6	UJ	n
pyrene	66	J	c	3.2	U		240			85			20	U		3.6	UJ	n

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	100302L03			100302L04						
Field ID	01NE28SD325			01NE28SD351						
Matrix	SX			SX						
Date Collected	8/18/01			8/19/01						
Units	µg/Kg			µg/Kg						
Analyte	RESULT	Q	RC	RESULT	Q	RC				
2-chloronaphthalene	32	U		230	U					
2-methylnaphthalene	2200			28000						
acenaphthene	48			990						
acenaphthylene	32	U		230	U					
anthracene	32	U		230	U					
benzo(a)anthracene	64	U		450	U					
benzo(a)pyrene	32	U		230	U					
benzo(b)fluoranthene	32	U		230	U					
benzo(g,h,l)perylene	32	U		230	U					
benzo(k)fluoranthene	32	U		230	U					
chrysene	64	U		450	U					
dibenzo(a,h)anthracene	32	U		230	U					
fluoranthene	32	U		230	U					
fluorene	54			2800						
indeno(1,2,3,c,d)pyrene	32	U		230	U					
naphthalene	1700			9900						
phenanthrene	32	U		900						
pyrene	32	U		230	U					

Po. .lear Aromatic Hydrocarbons DATA SUM. .Y TABLE

Sample ID	100413-01			100413-02			100413-03			100413-04			100413-05			100413-06		
Field ID	01NE29SD325			01NE28SD375			01NE28SD371			01NE28SD363			01NE29SD314			01NE29SW317		
Matrix	SX			SX			SX			SX			SX			WX		
Date Collected	8/21/01			8/20/01			8/20/01			8/20/01			8/21/01			8/20/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/L		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
2-chloronaphthalene	2	U		6.4	U		7.8	U		210	U		3.4	U		0.098	U	
2-methylnaphthalene	2	U		68			7.8	U		210	UJ	n	57			0.098	U	
acenaphthene	2	U		6.4	U		7.8	U		210	UJ	n	3.4	U		0.098	U	
acenaphthylene	2	U		20			7.8	U		210	U		3.4	U		0.098	U	
anthracene	2	U		6.4	U		7.8	U		210	U		3.4	U		0.098	U	
benzo(a)anthracene	4	U		13	U		16	U		420	U		6.8	U		0.098	U	
benzo(a)pyrene	2	U		6.4	U		7.8	U		210	U		3.4	U		0.098	U	
benzo(b)fluoranthene	2	UJ	f	6.4	U		7.8	U		210	U		3.4	U		0.098	U	
benzo(g,h,i)perylene	2	U		6.4	U		7.8	U		210	U		3.4	U		0.098	U	
benzo(k)fluoranthene	2	UJ	f	6.4	U		7.8	U		210	U		3.4	U		0.098	U	
chrysene	4	U		13	U		16	U		420	U		6.8	U		0.098	U	
dibenzo(a,h)anthracene	2	U		6.4	U		7.8	U		210	U		3.4	U		0.098	U	
fluoranthene	2	U		6.4	U		7.8	U		720			3.4	UJ	n	0.098	U	
fluorene	2	U		6.4	U		7.8	U		3300			14			0.098	U	
indeno(1,2,3,c,d)pyrene	2	U		6.4	U		7.8	U		210	U		3.4	U		0.098	U	
naphthalene	2	U		68			7.8	U		210	UJ	n	28			0.098	U	
phenanthrene	2	U		6.4	U		7.8	U		210	U		3.4	UJ	n	0.098	U	
pyrene	2	U		6.4	U		7.8	U		210	U		3.4	U		0.098	U	

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	100418-02						
Field ID	01NE09SW307						
Matrix	WX						
Date Collected	8/23/01						
Units	µg/L						
Analyte	**RESULT**	**Q**	**RC**				
2-chloronaphthalene	0.099	U					
2-methylnaphthalene	0.099	U					
acenaphthene	0.099	U					
acenaphthylene	0.099	U					
anthracene	0.099	U					
benzo(a)anthracene	0.099	U					
benzo(a)pyrene	0.099	U					
benzo(b)fluoranthene	0.099	U					
benzo(g,h,l)perylene	0.099	U					
benzo(k)fluoranthene	0.099	U					
chrysene	0.099	U					
dibenzo(a,h)anthracene	0.099	U					
fluoranthene	0.099	U					
fluorene	0.099	U					
indeno(1,2,3,c,d)pyrene	0.099	U					
naphthalene	0.099	U					
phenanthrene	0.099	U					
pyrene	0.099	U					

Sample ID	100492-13						
Field ID	01NE09SD313						
Matrix	SX						
Date Collected	8/24/01						
Units	µg/Kg						
Analyte	RESULT	Q	RC				
2-chloronaphthalene	8.9	U					
2-methylnaphthalene	8.9	U					
acenaphthene	8.9	U					
acenaphthylene	8.9	U					
anthracene	8.9	U					
benzo(a)anthracene	18	U					
benzo(a)pyrene	8.9	U					
benzo(b)fluoranthene	8.9	U					
benzo(g,h,I)perylene	8.9	U					
benzo(k)fluoranthene	8.9	U					
chrysene	18	U					
dibenzo(a,h)anthracene	8.9	U					
fluoranthene	8.9	U					
fluorene	8.9	U					
indeno(1,2,3,c,d)pyrene	8.9	U					
naphthalene	8.9	U					
phenanthrene	8.9	U					
pyrene	8.9	U					

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	100553-01							
Field ID	01NE07WP302							
Matrix	WX							
Date Collected	8/27/01							
Units	µg/L							
Analyte	**RESULT**	**Q**	**RC**					
2-chloronaphthalene	0.095	UJ	b					
2-methylnaphthalene	0.095	UJ	b					
acenaphthene	0.095	UJ	b					
acenaphthylene	0.095	UJ	b					
anthracene	0.095	UJ	b					
benzo(a)anthracene	0.095	UJ	b					
benzo(a)pyrene	0.095	UJ	b					
benzo(b)fluoranthene	0.095	UJ	b					
benzo(g,h,l)perylene	0.095	UJ	b					
benzo(k)fluoranthene	0.095	UJ	b					
chrysene	0.095	UJ	b					
dibenzo(a,h)anthracene	0.095	UJ	b					
fluoranthene	0.095	UJ	b					
fluorene	0.095	UJ	b					
indeno(1,2,3,c,d)pyrene	0.095	UJ	b					
naphthalene	0.095	UJ	b					
phenanthrene	0.095	UJ	b					
pyrene	0.095	UJ	b					

Poly. ear Aromatic Hydrocarbons DATA SUMM TABLE

Sample ID	DN03G			DN03J						
Field ID	01NE07SW104			01NE07SW105						
Matrix	WX			WX						
Date Collected	8/19/01			8/19/01						
Units	µg/L			µg/L						
Analyte	RESULT	Q	RC	RESULT	Q	RC				
2-methylnaphthalene	0.05	U		0.05	U					
acenaphthene	0.05	U		0.05	U					
acenaphthylene	0.05	U		0.05	U					
anthracene	0.05	U		0.05	U					
benzo(a)anthracene	0.05	U		0.05	U					
benzo(a)pyrene	0.05	U		0.05	U					
benzo(b)fluoranthene	0.05	U		0.05	U					
benzo(g,h,l)perylene	0.05	U		0.05	U					
benzo(k)fluoranthene	0.05	U		0.05	U					
chrysene	0.05	U		0.05	U					
dibenzo(a,h)anthracene	0.05	U		0.05	U					
dibenzofuran	0.05	U		0.05	U					
fluoranthene	0.05	U		0.05	U					
fluorene	0.05	U		0.05	U					
indeno(1,2,3,c,d)pyrene	0.05	U		0.05	U					
naphthalene	0.05	U		0.05	U					
phenanthrene	0.05	U		0.05	U					
pyrene	0.05	U		0.05	U					

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	DN04A			DN04B			DN04C			DN04D			DN04D-DL			DN04E		
Field ID	01NE28SD117			01NE28SD118			01NE28SD119			01NE28SD120			01NE28SD120			01NE28SD121		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/18/01			8/18/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
2-methylnaphthalene	91	U		12	U		7500			5500	J	o	6600			330		
acenaphthene	91	U		12	U		1700			270			270			16		
acenaphthylene	91	U		12	U		310	U		12	U		120	U		11	U	
anthracene	91	U		12	U		690			12	U		120	U		11	U	
benzo(a)anthracene	91	U		12	U		720			12	U		120	U		11	U	
benzo(a)pyrene	91	U		12	U		440			12	U		120	U		11	U	
benzo(b)fluoranthene	91	U		12	U		970			12	U		120	U		11	U	
benzo(g,h,I)perylene	91	U		12	U		310	U		12	U		120	U		11	U	
benzo(k)fluoranthene	91	U		12	U		660			12	U		120	U		11	U	
chrysene	91	U		12	U		2200			12	U		120	U		11	U	
dibenzo(a,h)anthracene	91	U		12	U		310	U		12	U		120	U		11	U	
dibenzofuran	91	U		12	U		3300			95			120	U		11	U	
fluoranthene	91	U		12	U		9700			15			120	U		16		
fluorene	91	U		12	U		4600			250			280			11		
indeno(1,2,3,c,d)pyrene	91	U		12	U		310	U		12	U		120	U		11	U	
naphthalene	91	U		12	U		3900			1600	J	o	1600			240		
phenanthrene	91	U		12	U		21000			50			120	U		15		
pyrene	91	U		12	U		6900			12	U		120	U		11	U	

Poly ...ear Aromatic Hydrocarbons **DATA SUM... ...Y TABLE**

Sample ID	DN04F			DN04G			DN04G-DL			DN04H			DN04H-DL			DN04I		
Field ID	01NE28SD122			01NE28SD123			01NE28SD123			01NE28SD124			01NE28SD124			01NE28SD125		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/18/01			8/18/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
2-methylnaphthalene	22			320			340			5000	J	o	7000			5600	J	o
acenaphthene	13	U		14	U		42	U		65			150	U		140		
acenaphthylene	13	U		14	U		42	U		6.2	U		150	U		20	U	
anthracene	13	U		14	U		42	U		6.2	U		150	U		20	U	
benzo(a)anthracene	13	U		14	U		42	U		6.2	U		150	U		20	U	
benzo(a)pyrene	13	U		14	U		42	U		6.2	U		150	U		20	U	
benzo(b)fluoranthene	13	U		14	U		42	U		6.2	U		150	U		20	U	
benzo(g,h,I)perylene	13	U		14	U		42	U		6.2	U		150	U		20	U	
benzo(k)fluoranthene	13	U		14	U		42	U		6.2	U		150	U		20	U	
chrysene	13	U		14	U		42	U		6.2	U		150	U		20	U	
dibenzo(a,h)anthracene	13	U		14	U		42	U		6.2	U		150	U		20	U	
dibenzofuran	13	U		14	U		42	U		26			150	U		43		
fluoranthene	13	U		14	U		42	U		6.2	U		150	U		20	U	
fluorene	13	U		14	U		42	U		73			150	U		140	J	n
indeno(1,2,3,c,d)pyrene	13	U		14	U		42	U		6.2	U		150	U		20	U	
naphthalene	24			1500	J	o	1600			3500	J	o	4800			3100	J	o
phenanthrene	13	U		14	U		42	U		26			150	U		49	J	n
pyrene	13	U		14	U		42	U		6.2	U		150	U		20	U	

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	DN04I-DL			DN04J			DN04K			DN04K-DL			DN04L			DN04M		
Field ID	01NE28SD125			01NE28SD126			01NE28SD127			01NE28SD127			01NE28SD128			01NE28SD225		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/18/01			8/18/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
2-methylnaphthalene	6500			3400			30000	J	o	33000			18000			9700	J	o
acenaphthene	240			670			1400			1900	U		1000			270		
acenaphthylene	200	U		280	U		190	U		1900	U		280	U		37	U	
anthracene	200	U		280	U		190	U		1900	U		280	U		37	U	
benzo(a)anthracene	200	U		280	U		190	U		1900	U		280	U		37	U	
benzo(a)pyrene	200	U		280	U		190	U		1900	U		280	U		37	U	
benzo(b)fluoranthene	200	U		280	U		190	U		1900	U		280	U		37	U	
benzo(g,h,I)perylene	200	U		280	U		190	U		1900	U		280	U		37	U	
benzo(k)fluoranthene	200	U		280	U		190	U		1900	U		280	U		37	U	
chrysene	200	U		280	U		190	U		1900	U		280	U		37	U	
dibenzo(a,h)anthracene	200	U		280	U		190	U		1900	U		280	U		37	U	
dibenzofuran	200	U		390			540			1900	U		440			81		
fluoranthene	200	U		280	U		190	U		1900	U		280	U		37	U	
fluorene	200	U		1400			2500			2100			2600			280	J	n
indeno(1,2,3,c,d)pyrene	200	U		280	U		190	U		1900	U		280	U		37	U	
naphthalene	3700			610			3400			3500			1600			4400	J	o
phenanthrene	200	U		280			1000			1900	U		810			110	J	n
pyrene	200	U		280	U		190	U		1900	U		280	U		37	U	

Poly...lear Aromatic Hydrocarbons — DATA SUM...Y TABLE

Sample ID	DN04M-DL			DN04N			DN04N-DL			DN04O			DN04P			DN04Q		
Field ID	01NE28SD225			01NE28SD129			01NE28SD129			01NE28SD130			01NE28SD131			01NE28SD132		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/18/01			8/18/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
2-methylnaphthalene	9600			3700	J	o	4100			23000			33000			53000		
acenaphthene	260			61			150	U		2600	U		2400			4500		
acenaphthylene	180	U		7.7	U		150	U		2600	U		960	U		2600	U	
anthracene	180	U		9.2			150	U		2600	U		960	U		2600	U	
benzo(a)anthracene	180	U		7.7	U		150	U		2600	U		960	U		2600	U	
benzo(a)pyrene	180	U		7.7	U		150	U		2600	U		960	U		2600	U	
benzo(b)fluoranthene	180	U		7.7	U		150	U		2600	U		960	U		2600	U	
benzo(g,h,I)perylene	180	U		7.7	U		150	U		2600	U		960	U		2600	U	
benzo(k)fluoranthene	180	U		7.7	U		150	U		2600	U		960	U		2600	U	
chrysene	180	U		7.7	U		150	U		2600	U		960	U		2600	U	
dibenzo(a,h)anthracene	180	U		7.7	U		150	U		2600	U		960	U		2600	U	
dibenzofuran	180	U		28			150	U		2600	U		960	U		2600	U	
fluoranthene	180	U		8.4			150	U		2600	U		960	U		2600	U	
fluorene	220			120			150	U		3200			6900			10000		
indeno(1,2,3,c,d)pyrene	180	U		7.7	U		150	U		2600	U		960	U		2600	U	
naphthalene	4400			4700	J	o	7400			3200			6400			14000		
phenanthrene	180	U		48			150	U		2900			4800			7400		
pyrene	180	U		10			150	U		2600	U		960	U		2600	U	

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	DN04R			DN04S			DN04S-RE			DN04S-REDL				
Field ID	01NE28SD133			01NE28SD134			01NE28SD134			01NE28SD134				
Matrix	SX			SX			SX			SX				
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01				
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg				
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**		
2-methylnaphthalene	5900			13000			25000	J	e,o	26000	J	e		
acenaphthene	630			440	U		2300	J	e	2700	J	e		
acenaphthylene	88	U		440	U		160	UJ	e	1600	UJ	e		
anthracene	150			440	U		160	UJ	e	1600	UJ	e		
benzo(a)anthracene	88	U		440	U		160	UJ	e	1600	UJ	e		
benzo(a)pyrene	88	U		440	U		160	UJ	e	1600	UJ	e		
benzo(b)fluoranthene	88	U		440	U		160	UJ	e	1600	UJ	e		
benzo(g,h,I)perylene	88	U		440	U		160	UJ	e	1600	UJ	e		
benzo(k)fluoranthene	88	U		440	U		160	UJ	e	1600	UJ	e		
chrysene	88	U		440	U		160	UJ	e	1600	UJ	e		
dibenzo(a,h)anthracene	88	U		440	U		160	UJ	e	1600	UJ	e		
dibenzofuran	620			980			1200	J	e	1600	UJ	e		
fluoranthene	88	U		440	U		160	UJ	e	1600	UJ	e		
fluorene	2200			2600			4100	J	e	3900	J	e		
indeno(1,2,3,c,d)pyrene	88	U		440	U		160	UJ	e	1600	UJ	e		
naphthalene	780			2000			1800	J	e	3600	J	e		
phenanthrene	1100			2100			3400	J	e	3400	J	e		
pyrene	88	U		440	U		160	UJ	e	1600	UJ	e		

Poly ear Aromatic Hydrocarbons **DATA SUM TABLE**

Sample ID	DN05A			DN05B			DN05B-DL			DN05C			DN05C-DL			DN05D		
Field ID	01NE28SD153			01NE28SD154			01NE28SD154			01NE28SD155			01NE28SD155			01NE28SD156		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
2-methylnaphthalene	8900			18000	J	o	18000			260000	J	o	440000			250000	J	o
acenaphthene	1300	J	n	1000			1400	U		14000			11000			8300		
acenaphthylene	670	U		140	U		1400	U		910	U		9100	U		930	U	
anthracene	670	U		140	U		1400	U		1600			9100	U		1800		
benzo(a)anthracene	670	UJ	n	140	U		1400	U		1800			9100	U		1900		
benzo(a)pyrene	670	U		140	U		1400	U		1400			9100	U		1400		
benzo(b)fluoranthene	670	U		140	U		1400	U		1600			9100	U		1400		
benzo(g,h,I)perylene	670	U		140	U		1400	U		910			9100	U		930	U	
benzo(k)fluoranthene	670	U		140	U		1400	U		1600			9100	U		1900		
chrysene	670	UJ	n	140	U		1400	U		2600			9100	U		2600		
dibenzo(a,h)anthracene	670	U		140	U		1400	U		910	U		9100	U		930	U	
dibenzofuran	670	U		390			1400	U		5300			9100	U		5600		
fluoranthene	670	U		290			1400	U		4900			9100	U		5100		
fluorene	1600	J	n	1900			1800			20000			19000			18000		
indeno(1,2,3,c,d)pyrene	670	U		140	U		1400	U		1200			9100	U		1200		
naphthalene	1600	J	n	2600			2800			130000	J	o	160000			110000	J	o
phenanthrene	670			1400			1400	U		17000			16000			16000		
pyrene	670	U		180			1400	U		3600			9100	U		3600		

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	DN05D-DL			DN05E			DN05F			DN05F-DL			DN05G			DN05H		
Field ID	01NE28SD156			01NE28SD157			01NE28SD158			01NE28SD158			01NE28SD253			01NE28SD257		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
2-methylnaphthalene	370000			3000			14000	J	o	38000			7700			3100		
acenaphthene	10000			200	J	n	600			1700	U		1200	J	n	71	UJ	n
acenaphthylene	9300	U		68	U		34	U		1700	U		570	U		71	U	
anthracene	9300	U		68	U		34	U		1700	U		570	U		71	U	
benzo(a)anthracene	9300	U		68	U		34	U		1700	U		570	UJ	n	71	U	
benzo(a)pyrene	9300	U		68	U		34	U		1700	U		570	U		71	U	
benzo(b)fluoranthene	9300	U		68	U		34	U		1700	U		570	U		71	U	
benzo(g,h,I)perylene	9300	U		68	U		34	U		1700	U		570	U		71	U	
benzo(k)fluoranthene	9300	U		68	U		34	U		1700	U		570	U		71	U	
chrysene	9300	U		68	U		34	U		1700	U		570	UJ	n	71	U	
dibenzo(a,h)anthracene	9300	U		68	U		34	U		1700	U		570	U		71	U	
dibenzofuran	9300	U		68	U		290			1700	U		570	U		71	U	
fluoranthene	9300	U		68	U		34	U		1700	U		570	U		71	U	
fluorene	17000			200	J	n	810			1700	U		1400	J	n	71	UJ	n
indeno(1,2,3,c,d)pyrene	9300	U		68	U		34	U		1700	U		570	U		71	U	
naphthalene	130000			1000			6500	J	o	18000			1400	J	n	1100		
phenanthrene	15000			75			400			1700	U		630			71	U	
pyrene	9300	U		68	U		34	U		1700	U		570	U		71	U	

Poly. .ear Aromatic Hydrocarbons **DATA SUM .' TABLE**

Sample ID	DN06A			DN06B			DN06C			DN06C-DL			DN06D			DN06D-DL		
Field ID	01NE28SD135			01NE28SD136			01NE28SD137			01NE28SD137			01NE28SD138			01NE28SD138		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
2-methylnaphthalene	290			78000			29			22			8.8			12	U	
acenaphthene	110			5700			3.6	U		11	U		3.8	U		12	U	
acenaphthylene	67	U		1200	U		3.6	U		11	U		3.8	U		12	U	
anthracene	67	U		1200	U		3.6	U		11	U		3.8	U		12	U	
benzo(a)anthracene	67	U		1200	U		3.6	U		11	U		3.8	U		12	U	
benzo(a)pyrene	67	U		1200	U		3.6	U		11	U		3.8	U		12	U	
benzo(b)fluoranthene	67	U		1200	U		3.6	U		11	U		3.8	U		12	U	
benzo(g,h,I)perylene	67	U		1200	U		3.6	U		11	U		3.8	U		12	U	
benzo(k)fluoranthene	67	U		1200	U		3.6	U		11	U		3.8	U		12	U	
chrysene	67	U		1200	U		3.6	U		11	U		3.8	U		12	U	
dibenzo(a,h)anthracene	67	U		1200	U		3.6	U		11	U		3.8	U		12	U	
dibenzofuran	67	U		1900			3.6	U		11	U		3.8	U		12	U	
fluoranthene	67	U		1200	U		5.4			11	U		3.8	U		12	U	
fluorene	110			10000			5.4			11	U		3.8	U		12	U	
indeno(1,2,3,c,d)pyrene	67	U		1200	U		3.6	U		11	U		3.8	U		12	U	
naphthalene	93			29000			45			37			9.6			12	U	
phenanthrene	150			5200			5			11	U		3.8	U		12	U	
pyrene	67	U		1200	U		5			11	U		3.8	U		12	U	

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	DN06E			DN06E-DL			DN06F			DN06G			DN06G-DL			DN06H		
Field ID	01NE28SD139			01NE28SD139			01NE28SD140			01NE28SD239			01NE28SD239			01NE28SD141		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
2-methylnaphthalene	34	J	n	32			830			14	J	n	16			260	J	b
acenaphthene	100	J	n	92			1300			8.6	UJ	n	14	U		18	J	b
acenaphthylene	4.6	U		14	U		830	U		4.8	U		14	U		4.1	UJ	b
anthracene	33	J	n	32			830	U		4.8	UJ	n	14	U		4.1	UJ	b
benzo(a)anthracene	230	J	n	200			830	U		4.8	UJ	n	14	U		4.1	UJ	b
benzo(a)pyrene	320	J	n	250			830	U		4.8	UJ	n	14	U		4.1	UJ	b
benzo(b)fluoranthene	420	J	n	200			830	U		4.8	UJ	n	14	U		4.1	UJ	b
benzo(g,h,I)perylene	71	J	n	66			830	U		4.8	UJ	n	14	U		4.1	UJ	b
benzo(k)fluoranthene	300	J	n	370			830	U		4.8	UJ	n	14	U		4.1	UJ	b
chrysene	380	J	n	330			830	U		4.8	UJ	n	14	U		4.1	UJ	b
dibenzo(a,h)anthracene	29	J	n	23			830	U		4.8	UJ	n	14	U		4.1	UJ	b
dibenzofuran	75	J	n	65			830	U		4.8	UJ	n	14	U		12	J	b
fluoranthene	890	J	n,o	850			830	U		4.8	UJ	n	14	U		4.1	UJ	b
fluorene	100	J	n	83			830	U		7.2	J	n	14	U		48	J	b
indeno(1,2,3,c,d)pyrene	89	J	n	85			830	U		4.8	UJ	n	14	U		4.1	UJ	b
naphthalene	50	J	n	43			1300			14	J	n	17			200	J	b
phenanthrene	990	J	n,o	910			830	U		4.8	UJ	n	14	U		30	J	b
pyrene	1000	J	n,o	700			830	U		4.8	UJ	n	14	U		4.1	UJ	b

Poly. .ear Aromatic Hydrocarbons **DATA SUMI TABLE**

Sample ID	DN06H-DL			DN06H-RE			DN06I			DN06I-DL			DN06J			DN06J-DL		
Field ID	01NE28SD141			01NE28SD141			01NE28SD142			01NE28SD142			01NE28SD143			01NE28SD143		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
2-methylnaphthalene	270	J	b	290	J	e	620	J	o	670			52000	J	o	110000		
acenaphthene	23	J	b	41	UJ	e	23			22			1600			5700	U	
acenaphthylene	12	UJ	b	41	UJ	e	4.6	U		14	U		140	U		5700	U	
anthracene	12	UJ	b	41	UJ	e	4.6	U		14	U		140	U		5700	U	
benzo(a)anthracene	12	UJ	b	41	UJ	e	4.6	U		14	U		140	U		5700	U	
benzo(a)pyrene	12	UJ	b	41	UJ	e	4.6	U		14	U		140	U		5700	U	
benzo(b)fluoranthene	12	UJ	b	41	UJ	e	4.6	U		14	U		140	U		5700	U	
benzo(g,h,I)perylene	12	UJ	b	41	UJ	e	4.6	U		14	U		140	U		5700	U	
benzo(k)fluoranthene	12	UJ	b	41	UJ	e	4.6	U		14	U		140	U		5700	U	
chrysene	12	UJ	b	41	UJ	e	4.6	U		14	U		140	U		5700	U	
dibenzo(a,h)anthracene	12	UJ	b	41	UJ	e	4.6	U		14	U		140	U		5700	U	
dibenzofuran	13	J	b	41	UJ	e	5.5			14	U		730			5700	U	
fluoranthene	12	UJ	b	41	UJ	e	4.6	U		14	U		140			5700	U	
fluorene	50	J	b	45	J	e	22			25			3100			5700	U	
indeno(1,2,3,c,d)pyrene	12	UJ	b	41	UJ	e	4.6	U		14	U		140	U		5700	U	
naphthalene	220	J	b	450	J	e	350			380			23000	J	o	49000		
phenanthrene	34	J	b	41	J	e	8.3			14	U		1000			5700	U	
pyrene	12	UJ	b	41	UJ	e	5			14	U		140			5700	U	

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	DN06K			DN06K-DL			DN06L			DN06L-DL			DN06L-RE			DN06M		
Field ID	01NE28SD144			01NE28SD144			01NE28SD145			01NE28SD145			01NE28SD145			01NE28SD146		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
2-methylnaphthalene	41000	J	o	94000			33000	J	o	32000			1000	J	e	280000	J	o
acenaphthene	1600			4500	U		800			730			610	J	e	9400		
acenaphthylene	110	U		4500	U		230	U		450	U		49	UJ	e	700	U	
anthracene	110	U		4500	U		230	U		450	U		49	UJ	e	700	U	
benzo(a)anthracene	110	U		4500	U		230	U		450	U		49	UJ	e	700	U	
benzo(a)pyrene	110	U		4500	U		230	U		450	U		49	UJ	e	700	U	
benzo(b)fluoranthene	110	U		4500	U		230	U		450	U		49	UJ	e	700	U	
benzo(g,h,I)perylene	110	U		4500	U		230	U		450	U		49	UJ	e	700	U	
benzo(k)fluoranthene	110	U		4500	U		230	U		450	U		49	UJ	e	700	U	
chrysene	110	U		4500	U		230	U		450	U		49	UJ	e	700	U	
dibenzo(a,h)anthracene	110	U		4500	U		230	U		450	U		49	UJ	e	700	U	
dibenzofuran	600			4500	U		590			640			170	J	e	4000		
fluoranthene	110	U		4500	U		230	U		450	U		49	UJ	e	700	U	
fluorene	2200			4500	U		1600			1700			880	J	e	17000		
indeno(1,2,3,c,d)pyrene	110	U		4500	U		230	U		450	U		49	UJ	e	700	U	
naphthalene	18000	J	o	34000			12000			11000			430	J	e	140000	J	o
phenanthrene	610			4500	U		1300			1200			670	J	e	6900		
pyrene	110	U		4500	U		230	U		450	U		49	UJ	e	700	U	

Po.. clear Aromatic Hydrocarbons DATA SU. .Y TABLE

Sample ID	DN06M-DL			DN06N			DN06O			DN06O-DL			DN06P			DN06Q		
Field ID	01NE28SD146			01NE28SD147			01NE28SD148			01NE28SD148			01NE28SD149			01NE28SD150		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
2-methylnaphthalene	500000			5200			39000	J	o	59000			18000			7200		
acenaphthene	12000			610	U		1000			3600	U		1400			360		
acenaphthylene	7000	U		610	U		120	U		3600	U		1200	U		140	U	
anthracene	7000	U		610	U		120	U		3600	U		1200	U		140	U	
benzo(a)anthracene	7000	U		610	U		120	U		3600	U		1200	U		140	U	
benzo(a)pyrene	7000	U		610	U		120	U		3600	U		1200	U		140	U	
benzo(b)fluoranthene	7000	U		610	U		120	U		3600	U		1200	U		140	U	
benzo(g,h,l)perylene	7000	U		610	U		120	U		3600	U		1200	U		140	U	
benzo(k)fluoranthene	7000	U		610	U		120	U		3600	U		1200	U		140	U	
chrysene	7000	U		610	U		120	U		3600	U		1200	U		140	U	
dibenzo(a,h)anthracene	7000	U		610	U		120	U		3600	U		1200	U		140	U	
dibenzofuran	7000	U		610	U		320			3600	U		1200	U		180		
fluoranthene	7000	U		610	U		120	U		3600	U		1200	U		140	U	
fluorene	16000			610	U		790			3600	U		2800			560		
indeno(1,2,3,c,d)pyrene	7000	U		610	U		120	U		3600	U		1200	U		140	U	
naphthalene	220000			1200			17000	J	o	27000			3200			2600		
phenanthrene	7000	U		610	U		330			3600	U		1500	J	d	280		
pyrene	7000	U		610	U		120	U		3600	U		1200	U		140	U	

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	DN06Q-RE			DN06Q-REDL			DN06R			DN06S			DN06T			
Field ID	01NE28SD150			01NE28SD150			01NE28SD151			01NE28SD251			01NE28SD152			
Matrix	SX			SX			SX			SX			SX			
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	
2-methylnaphthalene	1000	J	e	1200	J	e	29000			28000			15000			
acenaphthene	330	J	e	330	J	e	1200	J	n	1500	J	n	680			
acenaphthylene	28	UJ	e	83	UJ	e	700	UJ	n	680	UJ	n	400	U		
anthracene	28	UJ	e	83	UJ	e	700	U		680	U		400	U		
benzo(a)anthracene	28	UJ	e	83	UJ	e	700	U		680	U		400	U		
benzo(a)pyrene	28	UJ	e	83	UJ	e	700	U		680	U		400	U		
benzo(b)fluoranthene	28	UJ	e	83	UJ	e	700	U		680	U		400	U		
benzo(g,h,I)perylene	28	UJ	e	83	UJ	e	700	U		680	U		400	U		
benzo(k)fluoranthene	28	UJ	e	83	UJ	e	700	UJ	n	680	UJ	n	400	U		
chrysene	31	J	e	83	UJ	e	700	U		680	U		400	U		
dibenzo(a,h)anthracene	28	UJ	e	83	UJ	e	700	U		680	U		400	U		
dibenzofuran	97	J	e	83	J	e	700	U		680	U		400	U		
fluoranthene	31	J	e	83	UJ	e	700	U		680	U		400	U		
fluorene	390	J	e	410	J	e	2400	J	n	2400	J	n	1200			
indeno(1,2,3,c,d)pyrene	28	UJ	e	83	UJ	e	700	U		680	U		400	U		
naphthalene	610	J	e	400	J	e	5600			5300			3400			
phenanthrene	250	J	e	220	J	e	990			950			480			
pyrene	36	J	e	83	UJ	e	700	U		680	U		400	U		

Poly ...lear Aromatic Hydrocarbons — DATA SUM... ...Y TABLE

Sample ID	DN07D			DN07E			DN07F			DN07G			DN07H			DN07I		
Field ID	01NE28SD111			01NE28SD211			01NE28SD112			01NE28SD113			01NE28SD114			01NE28SD115		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/18/01			8/18/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
2-methylnaphthalene	37	U		44	U		39			160			1400			6700	J	o
acenaphthene	37	U		44	U		14	U		45	U		74			340		
acenaphthylene	40			53			14	U		45	U		17	U		41	U	
anthracene	37	U		44	U		14	U		45	U		17	U		41	U	
benzo(a)anthracene	37	U		44	U		14	U		45	U		17	U		41	U	
benzo(a)pyrene	37	U		44	U		14	U		45	U		17	U		41	U	
benzo(b)fluoranthene	37	U		44	U		14	U		45	U		17	U		41	U	
benzo(g,h,i)perylene	37	U		44	U		14	U		45	U		17	U		41	U	
benzo(k)fluoranthene	37	U		44	U		14	U		45	U		17	U		41	U	
chrysene	44			44	U		14	U		45	U		17	U		41	U	
dibenzo(a,h)anthracene	37	U		44	U		14	U		45	U		17	U		41	U	
dibenzofuran	37	U		44	U		14	U		45	U		33			150		
fluoranthene	160			48			14	U		45	U		17	U		41	U	
fluorene	37	U		44	U		14	U		63			140			600		
indeno(1,2,3,c,d)pyrene	37	U		44	U		14	U		45	U		17	U		41	U	
naphthalene	37	U		44	U		14	U		45	U		330			1700		
phenanthrene	210			48			15			45	U		18			41	U	
pyrene	180			79			14	U		63			17	U		41	U	

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	DN07I-DL			DN07J			DN07N			DN07O			DN07P			DN07Q		
Field ID	01NE28SD115			01NE28SD116			01NE07SS125			01NE07SS126			01NE07SS127			01NE07SD105		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
2-methylnaphthalene	8700			210			6.9	U		13	U		47			50	U	
acenaphthene	300			9.4	U		6.9	U		13	U		7.9	U		50	U	
acenaphthylene	270	U		9.4	U		6.9	U		13	U		7.9	U		50	U	
anthracene	270	U		9.4	U		6.9	U		13	U		7.9	U		50	U	
benzo(a)anthracene	270	U		9.4	U		6.9	U		13	U		7.9	U		50	U	
benzo(a)pyrene	270	U		9.4	U		6.9	U		13	U		82			50	U	
benzo(b)fluoranthene	270	U		9.4	U		6.9	U		13	U		7.9	U		50	U	
benzo(g,h,i)perylene	270	U		9.4	U		6.9	U		13	U		7.9	U		50	U	
benzo(k)fluoranthene	270	U		9.4	U		6.9	U		13	U		7.9	U		50	U	
chrysene	270	U		9.4	U		6.9	U		13	U		13			50	U	
dibenzo(a,h)anthracene	270	U		9.4	U		6.9	U		13	U		7.9	U		50	U	
dibenzofuran	270	U		9.4	U		6.9	U		13	U		7.9	U		50	U	
fluoranthene	270	U		9.4	U		6.9	U		13	U		7.9	U		50	U	
fluorene	630			9.4	U		6.9	U		13	U		7.9	U		50	U	
indeno(1,2,3,c,d)pyrene	270	U		9.4	U		6.9	U		13	U		7.9	U		50	U	
naphthalene	1900			110			6.9	U		13	U		27			50	U	
phenanthrene	270	U		9.4	U		6.9	U		13	U		14			50	U	
pyrene	270	U		9.4	U		6.9	U		13	U		13			50	U	

Sample ID	DN07R						
Field ID	01NE07SD104						
Matrix	SX						
Date Collected	8/19/01						
Units	µg/Kg						
Analyte	RESULT	Q	RC				
2-methylnaphthalene	14	U					
acenaphthene	14	U					
acenaphthylene	14	U					
anthracene	14	U					
benzo(a)anthracene	14	U					
benzo(a)pyrene	14	U					
benzo(b)fluoranthene	14						
benzo(g,h,I)perylene	14	U					
benzo(k)fluoranthene	14						
chrysene	35						
dibenzo(a,h)anthracene	14	U					
dibenzofuran	14	U					
fluoranthene	14	U					
fluorene	14	U					
indeno(1,2,3,c,d)pyrene	14	U					
naphthalene	14	U					
phenanthrene	14	U					
pyrene	26						

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	DN36A			DN36B			DN36C			DN36D			DN36E			
Field ID	01NE29SW117			01NE29SW217			01NE29SW116			01NE29SW115			01NE29SW114			
Matrix	WX			WX			WX			WX			WX			
Date Collected	8/20/01			8/20/01			8/21/01			8/21/01			8/21/01			
Units	µg/L			µg/L			µg/L			µg/L			µg/L			
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	
2-methylnaphthalene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
acenaphthene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
acenaphthylene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
anthracene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(a)anthracene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(a)pyrene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(b)fluoranthene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(g,h,I)perylene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(k)fluoranthene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
chrysene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
dibenzo(a,h)anthracene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
dibenzofuran	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
fluoranthene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
fluorene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
indeno(1,2,3,c,d)pyrene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
naphthalene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
phenanthrene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
pyrene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		

Poly ..lear Aromatic Hydrocarbons **DATA SUM. .Y TABLE**

Sample ID	DN38A			DN38B			DN38C			DN38D			DN38E			DN38F		
Field ID	01NE29SD114			01NE29SD214			01NE29SD115			01NE29SD116			01NE29SD117			01NE29SD118		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/21/01			8/21/01			8/21/01			8/21/01			8/21/01			8/21/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
2-methylnaphthalene	150	J	b	130			2.9	U		3.1	U		2.2	U		8	U	
acenaphthene	13	J	b	14			2.9	U		3.1	U		2.2	U		8	U	
acenaphthylene	8.4	UJ	b	3.8	U		2.9	U		3.1	U		2.2	U		8	U	
anthracene	8.4	UJ	b	3.8	U		2.9	U		3.1	U		2.2	U		23		
benzo(a)anthracene	8.4	UJ	b	3.8	U		2.9	U		3.1	U		2.2	U		8	U	
benzo(a)pyrene	8.4	UJ	b	3.8	U		2.9	U		3.1	U		2.2	U		8	U	
benzo(b)fluoranthene	8.4	UJ	b	4.2			2.9	U		3.1	U		2.2	U		8	U	
benzo(g,h,l)perylene	8.4	UJ	b	3.8	U		2.9	U		3.1	U		2.2	U		8	U	
benzo(k)fluoranthene	8.4	UJ	b	4.2			2.9	U		3.1	U		2.2	U		8	U	
chrysene	8.4	UJ	b	5.3			2.9	U		3.1	U		2.2	U		8	U	
dibenzo(a,h)anthracene	8.4	UJ	b	3.8	U		2.9	U		3.1	U		2.2	U		8	U	
dibenzofuran	8.4	UJ	b	13			2.9	U		3.1	U		2.2	U		8	U	
fluoranthene	8.4	UJ	b,n	36	J	n	2.9	U		3.1	U		2.2	U		10		
fluorene	17	J	b	26			2.9	U		3.1	U		2.2	U		8	U	
indeno(1,2,3,c,d)pyrene	8.4	UJ	b	3.8	U		2.9	U		3.1	U		2.2	U		8	U	
naphthalene	31	J	b	26			2.9	U		3.1	U		2.2	U		8	U	
phenanthrene	11	J	b,n	63	J	n	2.9	U		3.1	U		2.2	U		22		
pyrene	8.4	UJ	b	17			2.9	U		3.1	U		2.2	U		8	U	

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	DN38G			DN38H			DN38I			DN38J			DN38K			DN38L		
Field ID	01NE29SD119			01NE28SD165			01NE28SD166			01NE28SD167			01NE28SD168			01NE28SD169		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/21/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
2-methylnaphthalene	6.6	U		8.8	U		7.7	U		1200	U		13000			38000	J	b
acenaphthene	6.6	U		8.8	U		7.7	U		1200	U		1200	U		7900	J	b
acenaphthylene	6.6	U		8.8	U		7.7	U		1200	U		1200	U		1300	UJ	b
anthracene	6.6	U		8.8	U		7.7	U		1200	U		1200	U		1300	UJ	b
benzo(a)anthracene	6.6	U		8.8	U		7.7	U		1200	U		1200	U		1300	UJ	b
benzo(a)pyrene	6.6	U		8.8	U		7.7	U		1200	U		1200	U		1300	UJ	b
benzo(b)fluoranthene	6.6	U		8.8	U		7.7	U		1200	U		1200	U		1300	UJ	b
benzo(g,h,I)perylene	6.6	U		8.8	U		7.7	U		1200	U		1200	U		1300	UJ	b
benzo(k)fluoranthene	6.6	U		8.8	U		7.7	U		1200	U		1200	U		1300	UJ	b
chrysene	6.6	U		8.8	U		7.7	U		1200	U		1200	U		1300	UJ	b
dibenzo(a,h)anthracene	6.6	U		8.8	U		7.7	U		1200	U		1200	U		1300	UJ	b
dibenzofuran	6.6	U		8.8	U		7.7	U		1200	U		1200	U		1400	J	b
fluoranthene	6.6	U		8.8	U		7.7	U		1200	U		1200	U		1300	UJ	b
fluorene	6.6	U		8.8	U		7.7	U		1200	U		1200	U		8800	J	b
indeno(1,2,3,c,d)pyrene	6.6	U		8.8	U		7.7	U		1200	U		1200	U		1300	UJ	b
naphthalene	6.6	U		8.8	U		7.7	U		1200	U		4900			9900	J	b
phenanthrene	6.6	U		8.8	U		7.7	U		1200	U		1200	U		3700	J	b
pyrene	6.6	U		8.8	U		7.7	U		1200	U		1200	U		1300	UJ	b

Sample ID	DN38M						
Field ID	01NE28SD170						
Matrix	SX						
Date Collected	8/20/01						
Units	µg/Kg						
Analyte	RESULT	Q	RC				
2-methylnaphthalene	51000						
acenaphthene	12000						
acenaphthylene	1400	U					
anthracene	1400	U					
benzo(a)anthracene	1400	U					
benzo(a)pyrene	1400	U					
benzo(b)fluoranthene	1400	U					
benzo(g,h,l)perylene	1400	U					
benzo(k)fluoranthene	1400	U					
chrysene	1400	U					
dibenzo(a,h)anthracene	1400	U					
dibenzofuran	2300						
fluoranthene	1400	U					
fluorene	16000						
indeno(1,2,3,c,d)pyrene	1400	U					
naphthalene	14000						
phenanthrene	5900						
pyrene	1400	U					

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	DN39A			DN39B			DN39C			DN39C-DL			DN39D			DN39E		
Field ID	01NE28SD159			01NE28SD160			01NE28SD161			01NE28SD161			01NE28SD163			01NE28SD164		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/20/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
2-methylnaphthalene	3000			3400			260000	J	o	260000			2700	J	n	31000		
acenaphthene	2100			3700			12000			16000	U		2300	J	n	4600		
acenaphthylene	1400	U		1400	U		1600	U		16000	U		1400	U		1400	U	
anthracene	1400	U		1400	U		1600	U		16000	U		1400	U		1400	U	
benzo(a)anthracene	1400	U		1400	U		1600	U		16000	U		1400	U		1400	U	
benzo(a)pyrene	1400	U		1400	U		1600	U		16000	U		1400	U		1400	U	
benzo(b)fluoranthene	1400	U		1400	U		1600	U		16000	U		1400	U		1400	U	
benzo(g,h,I)perylene	1400	U		1400	U		1600	U		16000	U		1400	U		1400	U	
benzo(k)fluoranthene	1400	U		1400	U		1600	U		16000	U		1400	U		1400	U	
chrysene	1400	U		1400	U		1600	U		16000	U		1400	U		1400	U	
dibenzo(a,h)anthracene	1400	U		1400	U		1600	U		16000	U		1400	U		1400	U	
dibenzofuran	1400	U		1400	U		3900			16000	U		1400	U		1400	U	
fluoranthene	1400	U		1400	U		1600	U		16000	U		1400	U		1400	U	
fluorene	1400	U		2300			18000			16000	U		2600			6900		
indeno(1,2,3,c,d)pyrene	1400	U		1400	U		1600	U		16000	U		1400	U		1400	U	
naphthalene	7300			16000			54000			58000			9500	J	n	14000		
phenanthrene	1400	U		1400	U		6200			16000	U		1400	U		1400	U	
pyrene	1400	U		1400	U		1600	U		16000	U		1400	U		1400	U	

Sample ID	DN39F			DN39G			DN39H			DN39I			DN39J			DN39K		
Field ID	01NE28SD263			01NE28SD171			01NE28SD172			01NE28SD173			01NE28SD174			01NE28SD175		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/20/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
2-methylnaphthalene	2700	J	n	45	U		4200	U		1400			660			33	UJ	b
acenaphthene	2400	J	n	45	U		4200	U		54	U		31			33	UJ	b
acenaphthylene	1400	U		45	U		4200	U		54	U		31	U		33	UJ	b
anthracene	1400	U		45	U		4200	U		54	U		31	U		33	UJ	b
benzo(a)anthracene	1400	U		45	U		4200	U		54	U		31	U		33	UJ	b
benzo(a)pyrene	1400	U		45	U		4200	U		54	U		31	U		33	UJ	b
benzo(b)fluoranthene	1400	U		45	U		4200	U		54	U		31	U		33	UJ	b
benzo(g,h,l)perylene	1400	U		45	U		4200	U		54	U		31	U		33	UJ	b
benzo(k)fluoranthene	1400	U		45	U		4200	U		54	U		31	U		33	UJ	b
chrysene	1400	U		45	U		4200	U		54	U		31	U		33	UJ	b
dibenzo(a,h)anthracene	1400	U		45	U		4200	U		54	U		31	U		33	UJ	b
dibenzofuran	1400	U		45	U		4200	U		54	U		31	U		33	UJ	b
fluoranthene	1400	U		45	U		4200	U		54	U		31	U		33	UJ	b
fluorene	2400			45	U		4200	U		87			62			33	UJ	b
indeno(1,2,3,c,d)pyrene	1400	U		45	U		4200	U		54	U		31	U		33	UJ	b
naphthalene	9700	J	n	45	U		4200	U		2000			330			33	UJ	b
phenanthrene	1400	U		45	U		4200	U		54	U		31	U		33	UJ	b
pyrene	1400	U		45	U		4200	U		54	U		31	U		33	UJ	b

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	DN39K-RE			DN39L			DN39M			DN39N			DN39O			DN39P		
Field ID	01NE28SD175			01NE28SD176			01NE28SD271			01NE28SD275			01NE28SD177			01NE28SD178		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/20/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
2-methylnaphthalene	21	J	e,b	52	U		40	U		100			1700	U		3100	U	
acenaphthene	11	UJ	e,b	52	U		40	U		31	U		1700	U		3100	U	
acenaphthylene	11	UJ	e,b	52	U		40	U		31	U		1700	U		3100	U	
anthracene	11	UJ	e,b	52	U		40	U		31	U		1700	U		3100	U	
benzo(a)anthracene	11	UJ	e,b	52	U		40	U		31	U		1700	U		3100	U	
benzo(a)pyrene	11	UJ	e,b	52	U		40	U		31	U		1700	U		3100	U	
benzo(b)fluoranthene	11	UJ	e,b	52	U		40	U		31	U		1700	U		3100	U	
benzo(g,h,I)perylene	11	UJ	e,b	52	U		40	U		31	U		1700	U		3100	U	
benzo(k)fluoranthene	11	UJ	e,b	52	U		40	U		31	U		1700	U		3100	U	
chrysene	11	UJ	e,b	52	U		40	U		31	U		1700	U		3100	U	
dibenzo(a,h)anthracene	11	UJ	e,b	52	U		40	U		31	U		1700	U		3100	U	
dibenzofuran	11	UJ	e,b	52	U		40	U		31	U		1700	U		3100	U	
fluoranthene	11	UJ	e,b	52	U		40	U		31	U		1700	U		3100	U	
fluorene	11	UJ	e,b	52	U		40	U		31	U		1700	U		3100	U	
indeno(1,2,3,c,d)pyrene	11	UJ	e,b	52	U		40	U		31	U		1700	U		3100	U	
naphthalene	11	UJ	e,b	52	U		40	U		34			1700	U		3100	U	
phenanthrene	11	UJ	e,b	52	U		40	U		31	U		1700	U		3100	U	
pyrene	11	UJ	e,b	52	U		40	U		31	U		1700	U		3100	U	

Poly Nuclear Aromatic Hydrocarbons — DATA SUMMARY TABLE

Sample ID	DN39Q			DN39R			DN39S			DN39T			DN39T-DL			
Field ID	01NE28SD179			01NE28SD180			01NE28SD181			01NE28SD182			01NE28SD182			
Matrix	SX			SX			SX			SX			SX			
Date Collected	8/20/01			8/20/01			8/20/01			8/20/01			8/20/01			
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	
2-methylnaphthalene	1200	U		1100	U		1400	U		20	U		68	U		
acenaphthene	1200	U		1100	U		1400	U		20	U		68	U		
acenaphthylene	1200	U		1100	U		1400	U		20	U		68	U		
anthracene	1200	U		1100	U		1900			20	U		68	U		
benzo(a)anthracene	1200	U		1100	U		4400			20	U		68	U		
benzo(a)pyrene	1200	U		1100	U		2300			20	U		68	U		
benzo(b)fluoranthene	1200	U		1100	U		2600			20	U		68	U		
benzo(g,h,I)perylene	1200	U		1100	U		1400	U		20	U		68	U		
benzo(k)fluoranthene	1200	U		1100	U		2700			20	U		68	U		
chrysene	1200	U		1100	U		5500			20	U		68	U		
dibenzo(a,h)anthracene	1200	U		1100	U		1400	U		20	U		68	U		
dibenzofuran	1200	U		1100	U		1400	U		20	U		68	U		
fluoranthene	1200	U		1100	U		9300			20	U		68	U		
fluorene	1200	U		1100	U		1400	U		20	U		68	U		
indeno(1,2,3,c,d)pyrene	1200	U		1100	U		1400	U		20	U		68	U		
naphthalene	1200	U		1100	U		1400	U		20	U		68	U		
phenanthrene	1200	U		1100	U		4100			27			68	U		
pyrene	1200	U		1100	U		7500			20			68	U		

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	DN40A			DN40B			DN40C			DN40C-RE			DN40D			DN40E		
Field ID	01NE29SD123			01NE29SD124			01NE29SD125			01NE29SD125			01NE29SD225			01NE29SD128		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/21/01			8/21/01			8/21/01			8/21/01			8/21/01			8/21/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
2-methylnaphthalene	26	U		8.7	U		8.5	U		8.7	UJ	e	9.1	U		8.7	UJ	b
acenaphthene	26	U		8.7	U		8.5	U		8.7	UJ	e	9.1	U		8.7	UJ	b
acenaphthylene	26	U		10			8.5	U		8.7	UJ	e	9.1	U		8.7	UJ	b
anthracene	26	U		8.7	U		8.5	U		8.7	UJ	e	9.1	U		8.7	UJ	b
benzo(a)anthracene	26	U		8.7	U		8.5	U		8.7	UJ	e	9.1	U		8.7	UJ	b
benzo(a)pyrene	26	U		8.7	U		8.5	U		8.7	UJ	e	9.1	U		8.7	UJ	b
benzo(b)fluoranthene	26	U		8.7	U		8.5	U		8.7	UJ	e	9.1	U		8.7	UJ	b
benzo(g,h,I)perylene	26	U		8.7	U		8.5	U		8.7	UJ	e	9.1	U		8.7	UJ	b
benzo(k)fluoranthene	26	U		8.7	U		8.5	U		8.7	UJ	e	9.1	U		8.7	UJ	b
chrysene	26	U		8.7	U		8.5	U		8.7	UJ	e	9.1	U		8.7	UJ	b
dibenzo(a,h)anthracene	26	U		8.7	U		8.5	U		8.7	UJ	e	9.1	U		8.7	UJ	b
dibenzofuran	26	U		8.7	U		8.5	U		8.7	UJ	e	9.1	U		8.7	UJ	b
fluoranthene	26	U		8.7	U		8.5	U		8.7	UJ	e	9.1	U		8.7	UJ	b
fluorene	26	U		13			8.5	U		8.7	UJ	e	9.1	U		8.7	UJ	b
indeno(1,2,3,c,d)pyrene	26	U		8.7	U		8.5	U		8.7	UJ	e	9.1	U		8.7	UJ	b
naphthalene	26	U		8.7	U		8.5	U		8.7	UJ	e	9.1	U		8.7	UJ	b
phenanthrene	26	U		10			8.5	U		8.7	UJ	e	9.1	U		8.7	UJ	b
pyrene	26	U		8.7	U		8.5	U		8.7	UJ	e	9.1	U		8.7	UJ	b

Pol, .lear Aromatic Hydrocarbons DATA SUM .Y TABLE

Sample ID	DN40E-RE			DN40F			DN40G			DN40H			DN40I			DN40M		
Field ID	01NE29SD128			01NE29SD129			01NE29SD120			01NE29SD121			01NE29SD122			01NE29SD127		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/21/01			8/21/01			8/21/01			8/21/01			8/21/01			8/21/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
2-methylnaphthalene	18	UJ	e	6.8	U		7.3	U		6.4	U		7	U		8.9	U	
acenaphthene	18	UJ	e	6.8	U		7.3	U		6.4	U		7	U		8.9	U	
acenaphthylene	18	UJ	e	6.8	U		7.3	U		6.4	U		7	U		8.9	U	
anthracene	18	UJ	e	6.8	U		7.3	U		6.4	U		7	U		8.9	U	
benzo(a)anthracene	18	UJ	e	6.8	U		7.3	U		6.4	U		7	U		8.9	U	
benzo(a)pyrene	18	UJ	e	6.8	U		7.3	U		6.4	U		7	U		8.9	U	
benzo(b)fluoranthene	18	UJ	e	6.8	U		7.3	U		6.4	U		7	U		8.9	U	
benzo(g,h,l)perylene	18	UJ	e	6.8	U		7.3	U		6.4	U		7	U		8.9	U	
benzo(k)fluoranthene	18	UJ	e	6.8	U		7.3	U		6.4	U		7	U		8.9	U	
chrysene	18	UJ	e	6.8	U		7.3	U		6.4	U		7	U		8.9	U	
dibenzo(a,h)anthracene	18	UJ	e	6.8	U		7.3	U		6.4	U		7	U		8.9	U	
dibenzofuran	18	UJ	e	6.8	U		7.3	U		6.4	U		7	U		8.9	U	
fluoranthene	18	UJ	e	6.8	U		7.3	U		6.4	U		7	U		8.9	U	
fluorene	18	UJ	e	6.8	U		7.3	U		6.4	U		7	U		8.9	U	
indeno(1,2,3,c,d)pyrene	18	UJ	e	6.8	U		7.3	U		6.4	U		7	U		8.9	U	
naphthalene	18	UJ	e	6.8	U		7.3	U		6.4	U		7	U		8.9	U	
phenanthrene	18	UJ	e	6.8	U		7.3	U		6.4	U		7	U		8.9	U	
pyrene	18	UJ	e	6.8	U		7.3	U		6.4	U		7	U		8.9	U	

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	DN40N			DN40N-RE						
Field ID	01NE29SD126			01NE29SD126						
Matrix	SX			SX						
Date Collected	8/21/01			8/21/01						
Units	µg/Kg			µg/Kg						
Analyte	RESULT	Q	RC	RESULT	Q	RC				
2-methylnaphthalene	8.3	UJ	b	8.5	UJ	b,e				
acenaphthene	8.3	UJ	b	8.5	UJ	b,e				
acenaphthylene	8.3	UJ	b	8.5	UJ	b,e				
anthracene	8.3	UJ	b	8.5	UJ	b,e				
benzo(a)anthracene	8.3	UJ	b	8.5	UJ	b,e				
benzo(a)pyrene	8.3	UJ	b	8.5	UJ	b,e				
benzo(b)fluoranthene	8.3	UJ	b	8.5	UJ	b,e				
benzo(g,h,I)perylene	8.3	UJ	b	8.5	UJ	b,e				
benzo(k)fluoranthene	8.3	UJ	b	8.5	UJ	b,e				
chrysene	8.3	UJ	b	8.5	UJ	b,e				
dibenzo(a,h)anthracene	8.3	UJ	b	8.5	UJ	b,e				
dibenzofuran	8.3	UJ	b	8.5	UJ	b,e				
fluoranthene	8.3	UJ	b	8.5	UJ	b,e				
fluorene	8.3	UJ	b	8.5	UJ	b,e				
indeno(1,2,3,c,d)pyrene	8.3	UJ	b	8.5	UJ	b,e				
naphthalene	8.3	UJ	b	8.5	UJ	b,e				
phenanthrene	8.3	UJ	b	8.5	UJ	b,e				
pyrene	8.3	UJ	b	8.5	UJ	b,e				

Poly ,ear Aromatic Hydrocarbons DATA SUM. / TABLE

Sample ID	DN53A			DN53B			DN53F			DN53G			DN53I			
Field ID	01NE09SW109			01NE09SW107			01NE09SW207			01NE09SW108			01NE16GW103			
Matrix	WX			WX			WX			WX			WX			
Date Collected	8/23/01			8/23/01			8/23/01			8/23/01			8/23/01			
Units	µg/L			µg/L			µg/L			µg/L			µg/L			
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	
2-methylnaphthalene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
acenaphthene	0.05	U		0.05	U		0.05	U		0.05	U		0.05			
acenaphthylene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
anthracene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(a)anthracene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(a)pyrene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(b)fluoranthene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(g,h,I)perylene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(k)fluoranthene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
chrysene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
dibenzo(a,h)anthracene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
dibenzofuran	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
fluoranthene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
fluorene	0.05	U		0.05	U		0.05	U		0.05	U		0.08			
indeno(1,2,3,c,d)pyrene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
naphthalene	0.05	U		0.05	U		0.05	U		0.05	U		1.5			
phenanthrene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
pyrene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	DN55D			DN55D-RE			DN55E			DN55F			DN55M			
Field ID	01NE34SS101			01NE34SS101			01NE34SS102			01NE34SS103			01NE34SS111			
Matrix	SX			SX			SX			SX			SX			
Date Collected	8/23/01			8/23/01			8/23/01			8/23/01			8/23/01			
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	
2-methylnaphthalene	2.6	UJ	b	8.9	UJ	e	2.4	U		2.4	U		2.1	U		
acenaphthene	2.6	UJ	b	8.9	UJ	e	2.4	U		2.4	U		2.1	U		
acenaphthylene	2.6	UJ	b	8.9	UJ	e	2.4	U		2.4	U		2.1	U		
anthracene	2.6	UJ	b	8.9	UJ	e	2.4	U		2.4	U		2.1	U		
benzo(a)anthracene	2.6	UJ	b	8.9	UJ	e	2.4	U		2.4	U		2.1	U		
benzo(a)pyrene	2.6	UJ	b	8.9	UJ	e	2.4	U		2.4	U		2.1	U		
benzo(b)fluoranthene	2.6	UJ	b	8.9	UJ	e	2.4	U		2.4	U		2.1	U		
benzo(g,h,I)perylene	2.6	UJ	b	8.9	UJ	e	2.4	U		2.4	U		2.1	U		
benzo(k)fluoranthene	2.6	UJ	b	8.9	UJ	e	2.4	U		2.4	U		2.1	U		
chrysene	2.6	UJ	b	8.9	UJ	e	2.4	U		2.4	U		2.1	U		
dibenzo(a,h)anthracene	2.6	UJ	b	8.9	UJ	e	2.4	U		2.4	U		2.1	U		
dibenzofuran	2.6	UJ	b	8.9	UJ	e	2.4	U		2.4	U		2.1	U		
fluoranthene	2.6	UJ	b	8.9	UJ	e	2.4	U		2.4	U		2.1	U		
fluorene	2.6	UJ	b	8.9	UJ	e	2.4	U		2.4	U		2.1	U		
indeno(1,2,3,c,d)pyrene	2.6	UJ	b	8.9	UJ	e	2.4	U		2.4	U		2.1	U		
naphthalene	2.6	UJ	b	8.9	UJ	e	2.4	U		2.4	U		2.1	U		
phenanthrene	2.6	UJ	b	8.9	UJ	e	2.4	U		2.4	U		2.1	U		
pyrene	2.6	UJ	b	8.9	UJ	e	2.4	U		2.4	U		2.1	U		

Sample ID	DN68F						
Field ID	01NE09SD114						
Matrix	SX						
Date Collected	8/24/01						
Units	µg/Kg						
Analyte	RESULT	Q	RC				
2-methylnaphthalene	35	U					
acenaphthene	35	U					
acenaphthylene	35	U					
anthracene	35	U					
benzo(a)anthracene	35	U					
benzo(a)pyrene	35	U					
benzo(b)fluoranthene	35	U					
benzo(g,h,I)perylene	35	U					
benzo(k)fluoranthene	35	U					
chrysene	35	U					
dibenzo(a,h)anthracene	35	U					
dibenzofuran	35	U					
fluoranthene	35	U					
fluorene	35	U					
indeno(1,2,3,c,d)pyrene	35	U					
naphthalene	35	U					
phenanthrene	35	U					
pyrene	35	U					

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	DN71A			DN71B			DN71D			DN71E			DN71P			
Field ID	01NE09SW112			01NE09WP102			01NE09MW103			01NE09SW111			01NE09SW110			
Matrix	WX			WX			WX			WX			WX			
Date Collected	8/26/01			8/26/01			8/26/01			8/26/01			8/25/01			
Units	µg/L			µg/L			µg/L			µg/L			µg/L			
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	
2-methylnaphthalene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
acenaphthene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
acenaphthylene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
anthracene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(a)anthracene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(a)pyrene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(b)fluoranthene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(g,h,I)perylene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(k)fluoranthene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
chrysene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
dibenzo(a,h)anthracene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
dibenzofuran	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
fluoranthene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
fluorene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
indeno(1,2,3,c,d)pyrene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
naphthalene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
phenanthrene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
pyrene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		

Po. .lear Aromatic Hydrocarbons DATA SUI .Y TABLE

Sample ID	DN73A			DN73D			DN73E					
Field ID	01NE30WP101			01NE31SW101			01NE31SW102					
Matrix	WX			WX			WX					
Date Collected	8/25/01			8/24/01			8/24/01					
Units	µg/L			µg/L			µg/L					
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC			
2-methylnaphthalene	0.1	U		0.05	U		0.05	U				
acenaphthene	0.1	U		0.05	U		0.05	U				
acenaphthylene	0.1	U		0.05	U		0.05	U				
anthracene	0.1	U		0.05	U		0.05	U				
benzo(a)anthracene	0.1	U		0.05	U		0.05	U				
benzo(a)pyrene	0.1	U		0.05	U		0.05	U				
benzo(b)fluoranthene	0.1	U		0.05	U		0.05	U				
benzo(g,h,I)perylene	0.1	U		0.05	U		0.05	U				
benzo(k)fluoranthene	0.1	U		0.05	U		0.05	U				
chrysene	0.1	U		0.05	U		0.05	U				
dibenzo(a,h)anthracene	0.1	U		0.05	U		0.05	U				
dibenzofuran	0.1	U		0.05	U		0.05	U				
fluoranthene	0.1	U		0.05	U		0.05	U				
fluorene	0.1	U		0.05	U		0.05	U				
indeno(1,2,3,c,d)pyrene	0.1	U		0.05	U		0.05	U				
naphthalene	0.1	U		0.05	U		0.05	U				
phenanthrene	0.1	U		0.05	U		0.05	U				
pyrene	0.1	U		0.05	U		0.05	U				

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	DN76D			DN76E			DN76E-RE			DN76F			DN76G			DN76H		
Field ID	01NE09SD107			01NE09SD108			01NE09SD108			01NE30SS101			01NE30SD101			01NE30SS103		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/23/01			8/23/01			8/23/01			8/24/01			8/24/01			8/24/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
2-methylnaphthalene	41	U		22	UJ	b	25	UJ	e	27	U		22	U		53	UJ	b
acenaphthene	41	U		22	UJ	b	25	UJ	e	27	U		22	U		53	UJ	b
acenaphthylene	41	U		22	UJ	b	25	UJ	e	27	U		22	U		53	UJ	b
anthracene	41	U		22	UJ	b	25	UJ	e	27	U		22	U		53	UJ	b
benzo(a)anthracene	41	U		22	UJ	b	25	UJ	e	27	U		22	U		53	UJ	b
benzo(a)pyrene	41	U		22	UJ	b	25	UJ	e	27	U		22	U		53	UJ	b
benzo(b)fluoranthene	41	U		22	UJ	b	25	UJ	e	27	U		22	U		53	UJ	b
benzo(g,h,I)perylene	41	U		22	UJ	b	25	UJ	e	27	U		22	U		53	UJ	b
benzo(k)fluoranthene	41	U		22	UJ	b	25	UJ	e	27	U		22	U		53	UJ	b
chrysene	41	U		22	UJ	b	25	UJ	e	27	U		22	U		53	UJ	b
dibenzo(a,h)anthracene	41	U		22	UJ	b	25	UJ	e	27	U		22	U		53	UJ	b
dibenzofuran	41	U		22	UJ	b	25	UJ	e	27	U		22	U		53	UJ	b
fluoranthene	41	U		22	UJ	b	25	UJ	e	27	U		22	U		53	UJ	b
fluorene	41	U		22	UJ	b	25	UJ	e	27	U		22	U		53	UJ	b
indeno(1,2,3,c,d)pyrene	41	U		22	UJ	b	25	UJ	e	27	U		22	U		53	UJ	b
naphthalene	41	U		22	UJ	b	25	UJ	e	27	U		22	U		53	UJ	b
phenanthrene	41	U		22	UJ	b	25	UJ	e	27	U		22	U		53	UJ	b
pyrene	41	U		22	UJ	b	25	UJ	e	27	U		22	U		53	UJ	b

Poly. .ear Aromatic Hydrocarbons **DATA SUMI. . TABLE**

Sample ID	DN76H-RE			DN76I			DN76J			DN76K			DN76P			DN76P-RE		
Field ID	01NE30SS103			01NE30SS102			01NE09SD109			01NE09SD213			01NE09SD113			01NE09SD113		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
2-methylnaphthalene	60	UJ	e	6.8	U		16	U		19	U		36	UJ	b	40	UJ	e
acenaphthene	60	UJ	e	6.8	U		16	U		19	U		36	UJ	b	40	UJ	e
acenaphthylene	60	UJ	e	6.8	U		16	U		19	U		36	UJ	b	40	UJ	e
anthracene	60	UJ	e	6.8	U		16	U		19	U		36	UJ	b	40	UJ	e
benzo(a)anthracene	60	UJ	e	6.8	U		21			19	U		36	UJ	b	40	UJ	e
benzo(a)pyrene	60	UJ	e	6.8	U		86			19	U		36	UJ	b	40	UJ	e
benzo(b)fluoranthene	60	UJ	e	6.8	U		39			19	U		36	UJ	b	40	UJ	e
benzo(g,h,I)perylene	60	UJ	e	6.8	U		88			19	U		36	UJ	b	40	UJ	e
benzo(k)fluoranthene	60	UJ	e	6.8	U		57			19	U		36	UJ	b	40	UJ	e
chrysene	60	UJ	e	6.8	U		64			19	U		36	UJ	b	40	UJ	e
dibenzo(a,h)anthracene	60	UJ	e	6.8	U		16	U		19	U		36	UJ	b	40	UJ	e
dibenzofuran	60	UJ	e	6.8	U		16	U		19	U		36	UJ	b	40	UJ	e
fluoranthene	60	UJ	e	6.8	U		23			19	U		36	UJ	b	40	UJ	e
fluorene	60	UJ	e	6.8	U		16	U		19	U		36	UJ	b	40	UJ	e
indeno(1,2,3,c,d)pyrene	60	UJ	e	6.8	U		18			19	U		36	UJ	b	40	UJ	e
naphthalene	60	UJ	e	6.8	U		16	U		19	U		36	UJ	b	40	UJ	e
phenanthrene	60	UJ	e	6.8	U		24			19	U		36	UJ	b	40	UJ	e
pyrene	60	UJ	e	6.8	U		41			19	U		36	UJ	b	40	UJ	e

Polynuclear Aromatic Hydrocarbons **DATA SUMMARY TABLE**

Sample ID	DN88A			DN88B			DN88C			DN88E			DN88F			
Field ID	01NE07WP102			01NE07WP202			01NE30WP102			01NE07WP101			01NE07WP103			
Matrix	WX			WX			WX			WX			WX			
Date Collected	8/27/01			8/27/01			8/28/01			8/28/01			8/27/01			
Units	µg/L			µg/L			µg/L			µg/L			µg/L			
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	
2-methylnaphthalene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
acenaphthene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
acenaphthylene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
anthracene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(a)anthracene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(a)pyrene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(b)fluoranthene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(g,h,I)perylene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
benzo(k)fluoranthene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
chrysene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
dibenzo(a,h)anthracene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
dibenzofuran	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
fluoranthene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
fluorene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
indeno(1,2,3,c,d)pyrene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
naphthalene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
phenanthrene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		
pyrene	0.05	U		0.05	U		0.05	U		0.05	U		0.05	U		

Poly. ;ar Aromatic Hydrocarbons **DATA SUMM TABLE**

Sample ID	100413-01			100413-02			100413-03			100413-04			100413-05			100413-06		
Field ID	01NE29SD325			01NE28SD375			01NE28SD371			01NE28SD363			01NE29SD314			01NE29SW317		
Matrix	SX			SX			SX			SX			SX			WX		
Date Collected	8/21/01			8/20/01			8/20/01			8/20/01			8/21/01			8/20/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/L		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
2-chloronaphthalene	2	U		6.4	U		7.8	U		210	U		3.4	U		0.098	U	
2-methylnaphthalene	2	U		68			7.8	U		210	UJ	n	57			0.098	U	
acenaphthene	2	U		6.4	U		7.8	U		210	UJ	n	3.4	U		0.098	U	
acenaphthylene	2	U		20			7.8	U		210	U		3.4	U		0.098	U	
anthracene	2	U		6.4	U		7.8	U		210	U		3.4	U		0.098	U	
benzo(a)anthracene	4	U		13	U		16	U		420	U		6.8	U		0.098	U	
benzo(a)pyrene	2	U		6.4	U		7.8	U		210	U		3.4	U		0.098	U	
benzo(b)fluoranthene	2	UJ	f	6.4	U		7.8	U		210	U		3.4	U		0.098	U	
benzo(g,h,I)perylene	2	U		6.4	U		7.8	U		210	U		3.4	U		0.098	U	
benzo(k)fluoranthene	2	UJ	f	6.4	U		7.8	U		210	U		3.4	U		0.098	U	
chrysene	4	U		13	U		16	U		420	U		6.8	U		0.098	U	
dibenzo(a,h)anthracene	2	U		6.4	U		7.8	U		210	U		3.4	U		0.098	U	
fluoranthene	2	U		6.4	U		7.8	U		720			3.4	UJ	n	0.098	U	
fluorene	2	U		6.4	U		7.8	U		3300			14			0.098	U	
indeno(1,2,3,c,d)pyrene	2	U		6.4	U		7.8	U		210	U		3.4	U		0.098	U	
naphthalene	2	U		68			7.8	U		210	UJ	n	28			0.098	U	
phenanthrene	2	U		6.4	U		7.8	U		210	U		3.4	UJ	n	0.098	U	
pyrene	2	U		6.4	U		7.8	U		210	U		3.4	U		0.098	U	

Semivolatile Organics **DATA SUMMARY TABLE**

	Sample ID	100418-01		
	Field ID	01NE16GW301		
	Matrix	WX		
	Date Collected	8/23/01		
	Units	µg/L		
Analyte		RESULT	Q	RC
1,2,4-trichlorobenzene		1	U	
1,2-dichlorobenzene		1	U	
1,3-dichlorobenzene		1	U	
1,4-dichlorobenzene		1	U	
2,4,5-trichlorophenol		1	U	
2,4,6-trichlorophenol		1	U	
2,4-dichlorophenol		1	U	
2,4-dimethylphenol		1	U	
2,4-dinitrophenol		1	U	
2,4-dinitrotoluene		1	U	
2,6-dinitrotoluene		1	U	
2-chloronaphthalene		0.1	U	
2-chlorophenol		1	U	
2-methylnaphthalene		0.1	U	
2-methylphenol		1	U	
2-nitroaniline		1	U	
2-nitrophenol		1	U	
3,3'-dichlorobenzidine		1	U	
3-&4-methylphenol		1	U	
3-nitroaniline		1	U	
4,6-dinitro-2-methylphenol		1	U	
4-bromophenyl phenyl ether		1	U	
4-chloro-3-methylphenol		1	U	
4-chloroaniline		1	U	
4-chlorophenyl phenyl ether		1	U	
4-nitroaniline		1	U	
4-nitrophenol		1	U	
acenaphthene		0.1	U	
acenaphthylene		0.1	U	

Sample ID	100418-01		
Field ID	01NE16GW301		
Matrix	WX		
Date Collected	8/23/01		
Units	µg/L		
Analyte	RESULT	Q	RC
anthracene	0.1	U	
benzo(a)anthracene	0.1	U	
benzo(a)pyrene	0.1	U	
benzo(b)fluoranthene	0.1	U	
benzo(g,h,i)perylene	0.1	U	
benzo(k)fluoranthene	0.1	U	
benzoic acid	1	U	
benzyl alcohol	1	U	
bis(2-chloroethoxy)methane	1	U	
bis(2-chloroethyl)ether	1	U	
bis(2-chloroisopropyl)ether	1	U	
bis(2-ethylhexyl)phthalate	1	U	
butylbenzylphthalate	5.2	U	
chrysene	0.1	U	
di-n-butylphthalate	5.2	U	
di-n-octylphthalate	1	U	
dibenzo(a,h)anthracene	0.1	U	
dibenzofuran	1	U	
diethylphthalate	2.6	U	
dimethylphthalate	1	U	
fluoranthene	0.1	U	
fluorene	0.1	U	
hexachlorobenzene	1	U	
hexachlorobutadiene	1	U	
hexachlorocyclopentadiene	0.52	U	
hexachloroethane	1	U	
indeno(1,2,3,c,d)pyrene	0.1	U	
isophorone	1	U	
n-nitroso-di-n-propylamine	1	U	

DATA SUMMARY TABLE

Sample ID	100418-01						
Field ID	01NE16GW301						
Matrix	WX						
Date Collected	8/23/01						
Units	µg/L						
Analyte	**RESULT**	**Q**	**RC**				
n-nitrosodiphenylamine	1	U					
naphthalene	0.1	U					
nitrobenzene	1	U					
pentachlorophenol	1	U					
phenanthrene	0.1	U					
phenol	1	U					
pyrene	0.1	U					

Sample ID	DN53C			DN53D			DN53E								
Field ID	01NE16GW101			01NE16GW201			01NE16GW102								
Matrix	WX			WX			WX								
Date Collected	8/23/01			8/23/01			8/23/01								
Units	µg/L			µg/L			µg/L								
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC						
1,2,4-trichlorobenzene	1	U		1	U		1	U							
1,2-dichlorobenzene	1	U		1	U		1	U							
1,3-dichlorobenzene	1	U		1	U		1	U							
1,4-dichlorobenzene	1	U		1	U		1	U							
2,2'-oxybis (1-chloropropane)	1	U		1	U		1	U							
2,4,5-trichlorophenol	5	U		5	U		5	U							
2,4,6-trichlorophenol	5	U		5	U		5	U							
2,4-dichlorophenol	3	U		3	U		3	U							
2,4-dimethylphenol	3	U		3	U		3	U							
2,4-dinitrophenol	10	U		10	U		10	U							
2,4-dinitrotoluene	5	U		5	U		5	U							
2,6-dinitrotoluene	5	U		5	U		5	U							
2-chloronaphthalene	1	U		1	U		1	U							
2-chlorophenol	1	U		1	U		1	U							
2-methylnaphthalene	1	U		1	U		1	U							
2-methylphenol	1	U		1	U		1	U							
2-nitroaniline	5	U		5	U		5	U							
2-nitrophenol	5	U		5	U		5	U							
3,3-dichlorobenzidine	5	U		5	U		5	U							
3-nitroaniline	6	U		6	U		6	U							
4,6-dinitro-2-methylphenol	10	U		10	U		10	U							
4-bromophenyl phenyl ether	1	U		1	U		1	U							
4-chloro-3-methylphenol	2	U		2	U		2	U							
4-chloroaniline	3	U		3	U		3	U							
4-chlorophenyl phenyl ether	1	U		1	U		1	U							
4-methylphenol	1	U		1	U		1	U							
4-nitroaniline	5	U		5	U		5	U							
4-nitrophenol	5	U		5	U		5	U							
acenaphthene	1	U		1	U		1	U							

DATA SUMMARY TABLE

Sample ID	DN53C			DN53D			DN53E		
Field ID	01NE16GW101			01NE16GW201			01NE16GW102		
Matrix	WX			WX			WX		
Date Collected	8/23/01			8/23/01			8/23/01		
Units	µg/L			µg/L			µg/L		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
acenaphthylene	1	U		1	U		1	U	
anthracene	1	U		1	U		1	U	
benzo(a)anthracene	1	U		1	U		1	U	
benzo(a)pyrene	1	U		1	U		1	U	
benzo(b)fluoranthene	1	U		1	U		1	U	
benzo(g,h,i)perylene	1	U		1	U		1	U	
benzo(k)fluoranthene	1	U		1	U		1	U	
benzoic acid	10	U		10	U		10	U	
benzyl alcohol	5	U		5	U		5	U	
bis(2-chloroethoxy)methane	1	U		1	U		1	U	
bis(2-chloroethyl)ether	2	U		2	U		2	U	
bis(2-ethylhexyl)phthalate	2.5	B	a	2.2	B	a	1.4	B	a
butylbenzylphthalate	1	U		1	U		1	U	
carbazole	1	U		1	U		1	U	
chrysene	1	U		1	U		1	U	
di-n-butylphthalate	1	U		1	U		1	U	
di-n-octylphthalate	1	U		1	U		1	U	
dibenzo(a,h)anthracene	1	U		1	U		1	U	
dibenzofuran	1	U		1	U		1	U	
diethylphthalate	1	U		1	U		1	U	
dimethylphthalate	1	U		1	U		1	U	
fluoranthene	1	U		1	U		1	U	
fluorene	1	U		1	U		1	U	
hexachlorobenzene	1	U		1	U		1	U	
hexachlorobutadiene	2	U		2	U		2	U	
hexachlorocyclopentadiene	5	U		5	U		5	U	
hexachloroethane	2	U		2	U		2	U	
indeno(1,2,3,c,d)pyrene	1	U		1	U		1	U	
isophorone	1	U		1	U		1	U	

Sample ID	DN53C			DN53D			DN53E					
Field ID	01NE16GW101			01NE16GW201			01NE16GW102					
Matrix	WX			WX			WX					
Date Collected	8/23/01			8/23/01			8/23/01					
Units	µg/L			µg/L			µg/L					
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**			
n-nitroso-di-n-propylamine	2	U		2	U		2	U				
n-nitrosodiphenylamine	1	U		1	U		1	U				
naphthalene	1	U		1	U		1	U				
nitrobenzene	1	U		1	U		1	U				
pentachlorophenol	5	U		5	U		5	U				
phenanthrene	1	U		1	U		1	U				
phenol	2	U		2	U		2	U				
pyrene	1	U		1	U		1	U				

DATA SUMMARY TABLE

Sample ID	100418-02			100418-03		
Field ID	01NE09SW307			01NE00TB110		
Matrix	WX			WX		
Date Collected	8/23/01			8/23/01		
Units	µg/L			µg/L		
Analyte	RESULT	Q	RC	RESULT	Q	RC
1,1,1,2-tetrachloroethane	0.4	U		0.4	U	
1,1,1-trichloroethane	0.4	U		0.4	U	
1,1,2,2-tetrachloroethane	0.4	U		0.4	U	
1,1,2-trichloroethane	0.4	U		0.4	U	
1,1-dichloroethane	0.4	U		0.4	U	
1,1-dichloroethene	0.4	U		0.4	U	
1,1-dichloropropene	0.4	U		0.4	U	
1,2,3-trichlorobenzene	0.4	U		0.4	U	
1,2,3-trichloropropane	0.4	U		0.4	U	
1,2,4-trichlorobenzene	0.4	U		0.4	U	
1,2,4-trimethylbenzene	0.4	U		0.4	U	
1,2-dibromo-3-chloropropane	0.4	U		0.4	U	
1,2-dibromoethane	0.4	U		0.4	U	
1,2-dichlorobenzene	0.4	U		0.4	U	
1,2-dichloroethane	0.4	U		0.4	U	
1,2-dichloropropane	0.4	U		0.4	U	
1,3,5-trimethylbenzene	0.4	U		0.4	U	
1,3-dichlorobenzene	0.4	U		0.4	U	
1,3-dichloropropane	0.4	U		0.4	U	
1,4-dichlorobenzene	0.4	U		0.4	U	
2,2-dichloropropane	0.4	U		0.4	U	
2-butanone	2	U		2	U	
2-chlorotoluene	0.4	U		0.4	U	
2-hexanone	2	U		2	U	
4-chlorotoluene	0.4	U		0.4	U	
4-isopropyltoluene	0.4	U		0.4	U	
4-methyl-2-pentanone	2	U		2	U	
acetone	0.73	B	k	0.72	J	m
benzene	0.4	U		0.4	U	

Sample ID	100418-02			100418-03		
Field ID	01NE09SW307			01NE00TB110		
Matrix	WX			WX		
Date Collected	8/23/01			8/23/01		
Units	µg/L			µg/L		
Analyte	RESULT	Q	RC	RESULT	Q	RC
bromobenzene	0.4	U		0.4	U	
bromochloromethane	0.4	U		0.4	U	
bromodichloromethane	0.4	U		0.4	U	
bromoform	0.4	U		0.4	U	
bromomethane	0.8	U		0.8	U	
carbon disulfide	0.4	U		0.4	U	
carbon tetrachloride	0.4	U		0.4	U	
chlorobenzene	0.4	U		0.4	U	
chloroethane	0.4	U		0.4	U	
chloroform	0.4	U		0.4	U	
chloromethane	0.4	U		2.4		
cis-1,2-dichloroethene	0.4	U		0.4	U	
cis-1,3-dichloropropene	0.4	U		0.4	U	
dibromochloromethane	0.4	U		0.4	U	
dibromomethane	0.4	U		0.4	U	
dichlorodifluoromethane	0.4	U		0.4	U	
ethylbenzene	0.4	U		0.4	U	
hexachlorobutadiene	0.4	U		0.4	U	
isopropylbenzene	0.4	U		0.4	U	
m,p-xylene	0.8	U		0.8	U	
methylene chloride	0.4	U		0.4	U	
n-butylbenzene	0.4	U		0.4	U	
n-propylbenzene	0.4	U		0.4	U	
naphthalene	0.4	U		0.4	U	
o-xylene	0.4	U		0.4	U	
sec-butylbenzene	0.4	U		0.4	U	
styrene	0.4	U		0.4	U	
tert-butylbenzene	0.4	U		0.4	U	
tetrachloroethylene	0.4	U		0.18	J	m

DATA SUMMARY TABLE

Sample ID	100418-02			100418-03						
Field ID	01NE09SW307			01NE00TB110						
Matrix	WX			WX						
Date Collected	8/23/01			8/23/01						
Units	µg/L			µg/L						
Analyte	RESULT	Q	RC	RESULT	Q	RC				
toluene	0.4	U		0.4	U					
trans-1,2-dichloroethene	0.4	U		0.4	U					
trans-1,3-dichloropropene	0.4	U		0.4	U					
trichloroethene	0.4	U		0.4	U					
trichlorofluoromethane	0.4	U		0.16	J	m				
vinyl chloride	0.4	U		0.4	U					

Sample ID	100492-13		
Field ID	01NE09SD313		
Matrix	SX		
Date Collected	8/24/01		
Units	µg/Kg		
Analyte	RESULT	Q	RC
1,1,1,2-tetrachloroethane	1.9	U	
1,1,1-trichloroethane	1.9	U	
1,1,2,2-tetrachloroethane	1.9	U	
1,1,2-trichloroethane	1.9	U	
1,1-dichloroethane	1.9	U	
1,1-dichloroethene	1.9	U	
1,1-dichloropropene	1.9	U	
1,2,3-trichlorobenzene	1.9	U	
1,2,3-trichloropropane	1.9	U	
1,2,4-trichlorobenzene	1.9	U	
1,2,4-trimethylbenzene	1.9	U	
1,2-dibromo-3-chloropropane	1.9	U	
1,2-dibromoethane	1.9	U	
1,2-dichlorobenzene	1.9	U	
1,2-dichloroethane	1.9	U	
1,2-dichloropropane	1.9	U	
1,3,5-trimethylbenzene	1.9	U	
1,3-dichlorobenzene	1.9	U	
1,3-dichloropropane	1.9	U	
1,4-dichlorobenzene	1.9	U	
2,2-dichloropropane	1.9	U	
2-butanone	56	J	n
2-chlorotoluene	1.9	U	
2-hexanone	9.3	U	
4-chlorotoluene	1.9	U	
4-isopropyltoluene	1.9	U	
4-methyl-2-pentanone	9.3	U	
acetone	460		
benzene	1.9	U	

DATA SUMMARY TABLE

Analyte	Sample ID: 100492-13 Field ID: 01NE09SD313 Matrix: SX Date Collected: 8/24/01 Units: µg/Kg RESULT	Q	RC
bromobenzene	1.9	U	
bromochloromethane	1.9	U	
bromodichloromethane	1.9	U	
bromoform	1.9	U	
bromomethane	1.9	U	
carbon disulfide	20	J	n
carbon tetrachloride	1.9	U	
chlorobenzene	1.9	U	
chloroethane	1.9	U	
chloroform	1.9	U	
chloromethane	1.2	J	m,n
cis-1,2-dichloroethene	1.9	U	
cis-1,3-dichloropropene	1.9	U	
dibromochloromethane	1.9	U	
dibromomethane	1.9	U	
dichlorodifluoromethane	1.9	U	
ethylbenzene	1.9	U	
hexachlorobutadiene	1.9	U	
isopropylbenzene	1.9	U	
m,p-xylene	3.7	U	
methylene chloride	1.9	U	
n-butylbenzene	1.9	U	
n-propylbenzene	1.9	U	
naphthalene	1.9	U	
o-xylene	1.9	U	
sec-butylbenzene	1.9	U	
styrene	1.9	U	
tert-butylbenzene	1.9	U	
tetrachloroethylene	1.9	U	

Analyte	Sample ID: 100492-13 Field ID: 01NE09SD313 Matrix: SX Date Collected: 8/24/01 Units: µg/Kg RESULT	Q	RC
toluene	16	J	c,f,n
trans-1,2-dichloroethene	1.9	U	
trans-1,3-dichloropropene	1.9	U	
trichloroethene	1.9	U	
trichlorofluoromethane	1.9	U	
vinyl chloride	1.9	U	

Sample ID	100553-01			100553-02		
Field ID	01NE07WP302			01NE00TB117		
Matrix	WX			WX		
Date Collected	8/27/01			8/27/01		
Units	µg/L			µg/L		
Analyte	RESULT	Q	RC	RESULT	Q	RC
1,1,1,2-tetrachloroethane	0.4	U		0.4	UJ	p
1,1,1-trichloroethane	0.4	U		0.4	UJ	p
1,1,2,2-tetrachloroethane	0.4	U		0.4	UJ	p
1,1,2-trichloroethane	0.4	U		0.4	UJ	p
1,1-dichloroethane	0.4	U		0.4	UJ	p
1,1-dichloroethene	0.4	U		0.4	UJ	p
1,1-dichloropropene	0.4	U		0.4	UJ	p
1,2,3-trichlorobenzene	0.4	U		0.4	UJ	p
1,2,3-trichloropropane	0.4	U		0.4	UJ	p
1,2,4-trichlorobenzene	0.4	U		0.4	UJ	p
1,2,4-trimethylbenzene	0.4	U		0.4	UJ	p
1,2-dibromo-3-chloropropane	0.4	U		0.4	UJ	p
1,2-dibromoethane	0.4	U		0.4	UJ	p
1,2-dichlorobenzene	0.4	U		0.4	UJ	p
1,2-dichloroethane	0.4	U		0.4	UJ	p
1,2-dichloropropane	0.4	U		0.4	UJ	p
1,3,5-trimethylbenzene	0.4	U		0.4	UJ	p
1,3-dichlorobenzene	0.4	U		0.4	UJ	p
1,3-dichloropropane	0.4	U		0.4	UJ	p
1,4-dichlorobenzene	0.4	U		0.4	UJ	p
2,2-dichloropropane	0.4	U		0.4	UJ	p
2-butanone	2	U		2	UJ	p
2-chlorotoluene	0.4	U		0.4	UJ	p
2-hexanone	2	U		2	UJ	p
4-chlorotoluene	0.4	U		0.4	UJ	p
4-isopropyltoluene	0.4	U		0.4	UJ	p
4-methyl-2-pentanone	2	U		2	UJ	p
acetone	1.8	J	m	2	UJ	p
benzene	0.4	U		0.4	UJ	p

Sample ID	100553-01			100553-02		
Field ID	01NE07WP302			01NE00TB117		
Matrix	WX			WX		
Date Collected	8/27/01			8/27/01		
Units	µg/L			µg/L		
Analyte	RESULT	Q	RC	RESULT	Q	RC
bromobenzene	0.4	U		0.4	UJ	p
bromochloromethane	0.4	U		0.4	UJ	p
bromodichloromethane	0.4	U		0.4	UJ	p
bromoform	0.4	U		0.4	UJ	p
bromomethane	0.8	U		0.8	UJ	p
carbon disulfide	0.4	U		0.4	UJ	p
carbon tetrachloride	0.4	U		0.4	UJ	p
chlorobenzene	0.4	U		0.4	UJ	p
chloroethane	0.4	U		0.4	UJ	p
chloroform	0.4	U		0.091	J	m,p
chloromethane	0.46			0.4	UJ	p
cis-1,2-dichloroethene	0.4	U		0.4	UJ	p
cis-1,3-dichloropropene	0.4	U		0.4	UJ	p
dibromochloromethane	0.4	U		0.4	UJ	p
dibromomethane	0.4	U		0.4	UJ	p
dichlorodifluoromethane	0.4	U		0.4	UJ	p
ethylbenzene	0.4	U		0.4	UJ	p
hexachlorobutadiene	0.4	U		0.4	UJ	p
isopropylbenzene	0.4	U		0.4	UJ	p
m,p-xylene	0.8	U		0.8	UJ	p
methylene chloride	0.4	U		0.42	J	p
n-butylbenzene	0.4	U		0.4	UJ	p
n-propylbenzene	0.4	U		0.4	UJ	p
naphthalene	0.17	J	m,n	0.4	UJ	p
o-xylene	0.4	U		0.4	UJ	p
sec-butylbenzene	0.4	U		0.4	UJ	p
styrene	0.4	U		0.34	J	m,p
tert-butylbenzene	0.4	U		0.4	UJ	p
tetrachloroethylene	0.4	U		0.24	J	m,p

Volatile Organics

DATA SUMMARY TABLE

Sample ID	100553-01			100553-02						
Field ID	01NE07WP302			01NE00TB117						
Matrix	WX			WX						
Date Collected	8/27/01			8/27/01						
Units	µg/L			µg/L						
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**				
toluene	0.4	U		0.4	UJ	p				
trans-1,2-dichloroethene	0.4	U		0.4	UJ	p				
trans-1,3-dichloropropene	0.4	U		0.4	UJ	p				
trichloroethene	0.4	U		0.4	UJ	p				
trichlorofluoromethane	0.4	U		0.4	UJ	p				
vinyl chloride	0.4	U		0.4	UJ	p				

Sample ID	DN03H			DN03I			DN03J								
Field ID	01NE07SW104			01NE00TB102			01NE07SW105								
Matrix	WX			WX			WX								
Date Collected	8/19/01			8/19/01			8/19/01								
Units	µg/L			µg/L			µg/L								
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC						
1,1,1,2-tetrachloroethane	1	U		1	U		1	U							
1,1,1-trichloroethane	1	U		1	U		1	U							
1,1,2,2-tetrachloroethane	1	U		1	U		1	U							
1,1,2-trichloroethane	1	U		1	U		1	U							
1,1-dichloroethane	1	U		1	U		1	U							
1,1-dichloroethene	1	U		1	U		1	U							
1,1-dichloropropene	1	U		1	U		1	U							
1,2,3-trichlorobenzene	5	U		5	U		5	U							
1,2,3-trichloropropane	3	U		3	U		3	U							
1,2,4-trichlorobenzene	5	U		5	U		5	U							
1,2,4-trimethylbenzene	1	U		1	U		1	U							
1,2-dibromo-3-chloropropane	5	U		5	U		5	U							
1,2-dichlorobenzene	1	U		1	U		1	U							
1,2-dichloroethane	1	U		1	U		1	U							
1,2-dichloropropane	1	U		1	U		1	U							
1,3,5-trimethylbenzene	1	U		1	U		1	U							
1,3-dichlorobenzene	1	U		1	U		1	U							
1,3-dichloropropane	1	U		1	U		1	U							
1,4-dichlorobenzene	1	U		1	U		1	U							
112trichloro122trifluoroethane	2	U		2	U		2	U							
2,2-dichloropropane	1	U		1	U		1	U							
2-butanone	5	U		5	U		5	U							
2-chloroethylvinyl ether	5	U		5	U		5	U							
2-chlorotoluene	1	U		1	U		1	U							
2-hexanone	5	U		5	U		5	U							
4-chlorotoluene	1	U		1	U		1	U							
4-isopropyltoluene	1	U		1	U		1	U							
4-methyl-2-pentanone	5	U		5	U		5	U							
acetone	5	U		5	U		5	U							

Volatile Organics

DATA SUMMARY TABLE

Sample ID	DN03H			DN03I			DN03J		
Field ID	01NE07SW104			01NE00TB102			01NE07SW105		
Matrix	WX			WX			WX		
Date Collected	8/19/01			8/19/01			8/19/01		
Units	µg/L			µg/L			µg/L		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
acrolein	50	U		50	U		50	U	
acrylonitrile	1	U		1	U		1	U	
benzene	1	U		1	U		1	U	
bromobenzene	1	U		1	U		1	U	
bromochloromethane	1	U		1	U		1	U	
bromodichloromethane	1	U		1	U		1	U	
bromoethane	2	U		2	U		2	U	
bromoform	1	U		1	U		1	U	
bromomethane	1	U		1	U		1	U	
carbon disulfide	1	U		1	U		1	U	
carbon tetrachloride	1	U		1	U		1	U	
chlorobenzene	1	U		1	U		1	U	
chloroethane	1	U		1	U		1	U	
chloroform	1	U		1	U		1	U	
chloromethane	1	U		1	U		1	U	
cis-1,2-dichloroethene	1	U		1	U		1	U	
cis-1,3-dichloropropene	1	U		1	U		1	U	
dibromochloromethane	1	U		1	U		1	U	
dibromomethane	1	U		1	U		1	U	
ethylbenzene	1	U		1	U		1	U	
ethylene dibromide	1	U		1	U		1	U	
hexachlorobutadiene	5	U		5	U		5	U	
isopropylbenzene	1	U		1	U		1	U	
m,p-xylene	1	U		1	U		1	U	
methyl iodide	1	U		1	U		1	U	
methylene chloride	2	U		2	U		2	U	
n-butylbenzene	1	U		1	U		1	U	
n-propylbenzene	1	U		1	U		1	U	
naphthalene	5	U		5	U		5	U	

Sample ID	DN03H			DN03I			DN03J					
Field ID	01NE07SW104			01NE00TB102			01NE07SW105					
Matrix	WX			WX			WX					
Date Collected	8/19/01			8/19/01			8/19/01					
Units	µg/L			µg/L			µg/L					
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC			
o-xylene	1	U		1	U		1	U				
sec-butylbenzene	1	U		1	U		1	U				
styrene	1	U		1	U		1	U				
tert-butylbenzene	1	U		1	U		1	U				
tetrachloroethylene	1	U		1	U		1	U				
toluene	1	U		1	U		1	U				
trans-1,2-dichloroethene	1	U		1	U		1	U				
trans-1,3-dichloropropene	1	U		1	U		1	U				
trans-1,4-dichloro-2-butene	5	U		5	U		5	U				
trichloroethene	1	U		1	U		1	U				
trichlorofluoromethane	1	U		1	U		1	U				
vinyl acetate	5	U		5	U		5	U				
vinyl chloride	1	U		1	U		1	U				

DATA SUMMARY TABLE

Sample ID	DN07N			DN07O			DN07P			DN07Q			DN07R		
Field ID	01NE07SS125			01NE07SS126			01NE07SS127			01NE07SD105			01NE07SD104		
Matrix	SX			SX			SX			SX			SX		
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
1,1,1,2-tetrachloroethane	62	U		110	U		75	U		200	U		150	U	
1,1,1-trichloroethane	62	U		110	U		140			200			280		
1,1,2,2-tetrachloroethane	62	U		110	U		75	U		200	U		150	U	
1,1,2-trichloroethane	62	U		110	U		75	U		200	U		150	U	
1,1-dichloroethane	62	U		110	U		75	U		200	U		150	U	
1,1-dichloroethene	62	U		110	U		75	U		200	U		150	U	
1,1-dichloropropene	62	U		110	U		75	U		200	U		150	U	
1,2,3-trichlorobenzene	310	U		540	U		370	U		1000	U		770	U	
1,2,3-trichloropropane	120	U		220	U		150	U		400	U		310	U	
1,2,4-trichlorobenzene	310	U		540	U		370	U		1000	U		770	U	
1,2,4-trimethylbenzene	62	U		110	U		75	U		200	U		150	U	
1,2-dibromo-3-chloropropane	310	U		540	U		370	U		1000	U		770	U	
1,2-dichlorobenzene	62	U		110	U		75	U		200	U		150	U	
1,2-dichloroethane	62	U		110	U		75	U		200	U		150	U	
1,2-dichloropropane	62	U		110	U		75	U		200	U		150	U	
1,3,5-trimethylbenzene	62	U		110	U		75	U		200	U		150	U	
1,3-dichlorobenzene	62	U		110	U		75	U		200	U		150	U	
1,3-dichloropropane	62	U		110	U		75	U		200	U		150	U	
1,4-dichlorobenzene	62	U		110	U		75	U		200	U		150	U	
112trichloro122trifluoroethane	62	U		110	U		75	U		200	U		150	U	
2,2-dichloropropane	62	U		110	U		75	U		200	U		150	U	
2-butanone	310	U		540	U		370	U		1000	U		770	U	
2-chloroethylvinyl ether	310	U		540	U		370	U		1000	U		770	U	
2-chlorotoluene	62	U		110	U		75	U		200	U		150	U	
2-hexanone	310	U		540	U		370	U		1000	U		770	U	
4-chlorotoluene	62	U		110	U		75	U		200	U		150	U	
4-isopropyltoluene	62	U		110	U		75	U		200	U		150	U	
4-methyl-2-pentanone	310	U		540	U		370	U		1000	U		770	U	
acetone	310	U		840			370	U		1400			910		

Sample ID	DN07N			DN07O			DN07P			DN07Q			DN07R			
Field ID	01NE07SS125			01NE07SS126			01NE07SS127			01NE07SD105			01NE07SD104			
Matrix	SX			SX			SX			SX			SX			
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	
acrolein	3100	U		5400	U		3700	U		10000	U		7700	U		
acrylonitrile	310	U		540	U		370	U		1000	U		770	U		
benzene	62	U		110	U		75	U		200	U		150	U		
bromobenzene	62	U		110	U		75	U		200	U		150	U		
bromochloromethane	62	U		110	U		75	U		200	U		150	U		
bromodichloromethane	62	U		110	U		75	U		200	U		150	U		
bromoethane	120	U		220	U		150	U		400	U		310	U		
bromoform	62	U		110	U		75	U		200	U		150	U		
bromomethane	98	B	a	200	B	a	170	B	a	400	B	a	170	B	a	
carbon disulfide	62	U		110	U		75	U		200	U		150	U		
carbon tetrachloride	62	U		110	U		75	U		200	U		150	U		
chlorobenzene	62	U		110	U		75	U		200	U		150	U		
chloroethane	62	U		110	U		75	U		200	U		150	U		
chloroform	62	U		110	U		75	U		200	U		150	U		
chloromethane	62	U		110	U		75	U		200	U		150	U		
cis-1,2-dichloroethene	62	U		110	U		75	U		200	U		150	U		
cis-1,3-dichloropropene	62	U		110	U		75	U		200	U		150	U		
dibromochloromethane	62	U		110	U		75	U		200	U		150	U		
dibromomethane	62	U		110	U		75	U		200	U		150	U		
ethylbenzene	62	U		110	U		75	U		200	U		150	U		
ethylene dibromide	62	U		110	U		75	U		200	U		150	U		
hexachlorobutadiene	310	U		540	U		370	U		1000	U		770	U		
isopropylbenzene	62	U		110	U		75	U		200	U		150	U		
m,p-xylene	62	U		130			75	U		200	U		150	U		
methyl iodide	62	U		110	U		75	U		200	U		150	U		
methylene chloride	190	U		320	U		220	U		600	U		460	U		
n-butylbenzene	120	U		220	U		150	U		400	U		310	U		
n-propylbenzene	62	U		110	U		75	U		200	U		150	U		
naphthalene	310	U		540	U		370	U		1000	U		770	U		

DATA SUMMARY TABLE

Sample ID	DN07N			DN07O			DN07P			DN07Q			DN07R			
Field ID	01NE07SS125			01NE07SS126			01NE07SS127			01NE07SD105			01NE07SD104			
Matrix	SX			SX			SX			SX			SX			
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	
o-xylene	62	U		110	U		75	U		200	U		150	U		
sec-butylbenzene	62	U		110	U		75	U		200	U		150	U		
styrene	62	U		110	U		75	U		200	U		150	U		
tert-butylbenzene	62	U		110	U		75	U		200	U		150	U		
tetrachloroethylene	62	U		110	U		75	U		200	U		150	U		
toluene	62	U		140			75	U		200	U		150	U		
trans-1,2-dichloroethene	62	U		110	U		75	U		200	U		150	U		
trans-1,3-dichloropropene	62	U		110	U		75	U		200	U		150	U		
trans-1,4-dichloro-2-butene	310	U		540	U		370	U		1000	U		770	U		
trichloroethene	62	U		110	U		75	U		200	U		150	U		
trichlorofluoromethane	62	U		110	U		75	U		200	U		150	U		
vinyl acetate	310	U		540	U		370	U		1000	U		770	U		
vinyl chloride	62	U		110	U		75	U		200	U		150	U		

Sample ID	DN36G			DN36H			DN36I			DN36J			DN36K			DN36L		
Field ID	01NE29SW116			01NE00TB103			01NE29SW117			01NE29SW217			01NE29SW115			01NE29SW114		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/21/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
1,1,1,2-tetrachloroethane	1	U		1	U		1	U		1	U		1	U		1	U	
1,1,1-trichloroethane	1	U		1	U		1	U		1	U		1	U		1	U	
1,1,2,2-tetrachloroethane	1	U		1	U		1	U		1	U		1	U		1	U	
1,1,2-trichloroethane	1	U		1	U		1	U		1	U		1	U		1	U	
1,1-dichloroethane	1	U		1	U		1	U		1	U		1	U		1	U	
1,1-dichloroethene	1	U		1	U		1	U		1	U		1	U		1	U	
1,1-dichloropropene	1	U		1	U		1	U		1	U		1	U		1	U	
1,2,3-trichlorobenzene	5	U		5	U		5	U		5	U		5	U		5	U	
1,2,3-trichloropropane	3	U		3	U		3	U		3	U		3	U		3	U	
1,2,4-trichlorobenzene	5	U		5	U		5	U		5	U		5	U		5	U	
1,2,4-trimethylbenzene	1	U		1	U		1	U		1	U		1	U		1	U	
1,2-dibromo-3-chloropropane	5	U		5	U		5	U		5	U		5	U		5	U	
1,2-dichlorobenzene	1	U		1	U		1	U		1	U		1	U		1	U	
1,2-dichloroethane	1	U		1	U		1	U		1	U		1	U		1	U	
1,2-dichloropropane	1	U		1	U		1	U		1	U		1	U		1	U	
1,3,5-trimethylbenzene	1	U		1	U		1	U		1	U		1	U		1	U	
1,3-dichlorobenzene	1	U		1	U		1	U		1	U		1	U		1	U	
1,3-dichloropropane	1	U		1	U		1	U		1	U		1	U		1	U	
1,4-dichlorobenzene	1	U		1	U		1	U		1	U		1	U		1	U	
112trichloro122trifluoroethane	2	U		2	U		2	U		2	U		2	U		2	U	
2,2-dichloropropane	1	U		1	U		1	U		1	U		1	U		1	U	
2-butanone	5	U		5	U		5	U		5	U		5	U		5	U	
2-chloroethylvinyl ether	5	U		5	U		5	U		5	U		5	U		5	U	
2-chlorotoluene	1	U		1	U		1	U		1	U		1	U		1	U	
2-hexanone	5	U		5	U		5	U		5	U		5	U		5	U	
4-chlorotoluene	1	U		1	U		1	U		1	U		1	U		1	U	
4-isopropyltoluene	1	U		1	U		1	U		1	U		1	U		1	U	
4-methyl-2-pentanone	5	U		5	U		5	U		5	U		5	U		5	U	
acetone	5	U		5	U		5	U		5	U		5	U		5	U	

Volatile Organics

DATA SUMMARY TABLE

Sample ID	DN36G			DN36H			DN36I			DN36J			DN36K			DN36L		
Field ID	01NE29SW116			01NE00TB103			01NE29SW117			01NE29SW217			01NE29SW115			01NE29SW114		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/21/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
acrolein	50	U		50	U		50	U		50	U		50	U		50	U	
acrylonitrile	1	U		1	U		1	U		1	U		1	U		1	U	
benzene	1	U		1	U		1	U		1	U		1	U		1	U	
bromobenzene	1	U		1	U		1	U		1	U		1	U		1	U	
bromochloromethane	1	U		1	U		1	U		1	U		1	U		1	U	
bromodichloromethane	1	U		1	U		1	U		1	U		1	U		1	U	
bromoethane	2	U		2	U		2	U		2	U		2	U		2	U	
bromoform	1	U		1	U		1	U		1	U		1	U		1	U	
bromomethane	1	U		1	U		1	U		1	U		1	U		1	U	
carbon disulfide	1	U		1	U		1	U		1	U		1	U		1	U	
carbon tetrachloride	1	U		1	U		1	U		1	U		1	U		1	U	
chlorobenzene	1	U		1	U		1	U		1	U		1	U		1	U	
chloroethane	1	U		1	U		1	U		1	U		1	U		1	U	
chloroform	1	U		1	U		1	U		1	U		1	U		1	U	
chloromethane	1	U		1	U		1	U		1	U		1	U		1	U	
cis-1,2-dichloroethene	1	U		1	U		1	U		1	U		1	U		1	U	
cis-1,3-dichloropropene	1	U		1	U		1	U		1	U		1	U		1	U	
dibromochloromethane	1	U		1	U		1	U		1	U		1	U		1	U	
dibromomethane	1	U		1	U		1	U		1	U		1	U		1	U	
ethylbenzene	1	U		1	U		1	U		1	U		1	U		1	U	
ethylene dibromide	1	U		1	U		1	U		1	U		1	U		1	U	
hexachlorobutadiene	5	U		5	U		5	U		5	U		5	U		5	U	
isopropylbenzene	1	U		1	U		1	U		1	U		1	U		1	U	
m,p-xylene	1	U		1	U		1	U		1	U		1	U		1	U	
methyl iodide	1	U		1	U		1	U		1	U		1	U		1	U	
methylene chloride	2	U		2	U		2	U		2	U		2	U		2	U	
n-butylbenzene	1	U		1	U		1	U		1	U		1	U		1	U	
n-propylbenzene	1	U		1	U		1	U		1	U		1	U		1	U	
naphthalene	5	U		5	U		5	U		5	U		5	U		5	U	

Sample ID	DN36G			DN36H			DN36I			DN36J			DN36K			DN36L		
Field ID	01NE29SW116			01NE00TB103			01NE29SW117			01NE29SW217			01NE29SW115			01NE29SW114		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/21/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
o-xylene	1	U		1	U		1	U		1	U		1	U		1	U	
sec-butylbenzene	1	U		1	U		1	U		1	U		1	U		1	U	
styrene	1	U		1	U		1	U		1	U		1	U		1	U	
tert-butylbenzene	1	U		1	U		1	U		1	U		1	U		1	U	
tetrachloroethylene	1	U		1	U		1	U		1	U		1	U		1	U	
toluene	1	U		1	U		1	U		1	U		1	U		1	U	
trans-1,2-dichloroethene	1	U		1	U		1	U		1	U		1	U		1	U	
trans-1,3-dichloropropene	1	U		1	U		1	U		1	U		1	U		1	U	
trans-1,4-dichloro-2-butene	5	U		5	U		5	U		5	U		5	U		5	U	
trichloroethene	1	U		1	U		1	U		1	U		1	U		1	U	
trichlorofluoromethane	1	U		1	U		1	U		1	U		1	U		1	U	
vinyl acetate	5	U		5	U		5	U		5	U		5	U		5	U	
vinyl chloride	1	U		1	U		1	U		1	U		1	U		1	U	

Volatile Organics

DATA SUMMARY TABLE

Sample ID	DN53J			DN53K			DN53L			DN53M			DN53N			DN53O		
Field ID	01NE09SW207			01NE09SW109			01NE09SW108			01NE09SW107			01NE00TB108			TRIP BLANK		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/23/01			8/23/01			8/23/01			8/23/01			8/23/01			8/23/01		
Units	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
1,1,1,2-tetrachloroethane	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
1,1,1-trichloroethane	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
1,1,2,2-tetrachloroethane	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
1,1,2-trichloroethane	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
1,1-dichloroethane	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
1,1-dichloroethene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
1,1-dichloropropene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
1,2,3-trichlorobenzene	5	U		5	U		5	U		5	U		5	UJ	p	5	U	
1,2,3-trichloropropane	3	U		3	U		3	U		3	U		3	UJ	p	3	U	
1,2,4-trichlorobenzene	5	U		5	U		5	U		5	U		5	UJ	p	5	U	
1,2,4-trimethylbenzene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
1,2-dibromo-3-chloropropane	5	U		5	U		5	U		5	U		5	UJ	p	5	U	
1,2-dichlorobenzene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
1,2-dichloroethane	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
1,2-dichloropropane	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
1,3,5-trimethylbenzene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
1,3-dichlorobenzene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
1,3-dichloropropane	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
1,4-dichlorobenzene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
112trichloro122trifluoroethane	2	U		2	U		2	U		2	U		2	UJ	p	2	U	
2,2-dichloropropane	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
2-butanone	5	U		5	U		5	U		5	U		5	UJ	p	5	U	
2-chloroethylvinyl ether	5	U		5	U		5	U		5	U		5	UJ	p	5	U	
2-chlorotoluene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
2-hexanone	5	U		5	U		5	U		5	U		5	UJ	p	5	U	
4-chlorotoluene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
4-isopropyltoluene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
4-methyl-2-pentanone	5	U		5	U		5	U		5	U		5	UJ	p	5	U	
acetone	5	U		5	U		5	U		5	U		5	UJ	p	5	U	

Sample ID	DN53J			DN53K			DN53L			DN53M			DN53N			DN53O		
Field ID	01NE09SW207			01NE09SW109			01NE09SW108			01NE09SW107			01NE00TB108			TRIP BLANK		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/23/01			8/23/01			8/23/01			8/23/01			8/23/01			8/23/01		
Units	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
acrolein	50	U		50	U		50	U		50	U		50	UJ	p	50	U	
acrylonitrile	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
benzene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
bromobenzene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
bromochloromethane	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
bromodichloromethane	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
bromoethane	2	U		2	U		2	U		2	U		2	UJ	p	2	U	
bromoform	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
bromomethane	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
carbon disulfide	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
carbon tetrachloride	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
chlorobenzene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
chloroethane	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
chloroform	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
chloromethane	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
cis-1,2-dichloroethene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
cis-1,3-dichloropropene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
dibromochloromethane	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
dibromomethane	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
ethylbenzene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
ethylene dibromide	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
hexachlorobutadiene	5	U		5	U		5	U		5	U		5	UJ	p	5	U	
isopropylbenzene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
m,p-xylene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
methyl iodide	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
methylene chloride	2	U		2	U		2	U		2	U		2	UJ	p	2	U	
n-butylbenzene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
n-propylbenzene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
naphthalene	5	U		5	U		5	U		5	U		5	UJ	p	5	U	

DATA SUMMARY TABLE

Sample ID	DN53J			DN53K			DN53L			DN53M			DN53N			DN53O		
Field ID	01NE09SW207			01NE09SW109			01NE09SW108			01NE09SW107			01NE00TB108			TRIP BLANK		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/23/01			8/23/01			8/23/01			8/23/01			8/23/01			8/23/01		
Units	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
o-xylene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
sec-butylbenzene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
styrene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
tert-butylbenzene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
tetrachloroethylene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
toluene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
trans-1,2-dichloroethene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
trans-1,3-dichloropropene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
trans-1,4-dichloro-2-butene	5	U		5	U		5	U		5	U		5	UJ	p	5	U	
trichloroethene	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
trichlorofluoromethane	1	U		1	U		1	U		1	U		1	UJ	p	1	U	
vinyl acetate	5	U		5	U		5	U		5	U		5	UJ	p	5	U	
vinyl chloride	1	U		1	U		1	U		1	U		1	UJ	p	1	U	

Sample ID	DN68C			DN68D			DN68E			DN68F			DN68G			DN68H		
Field ID	01NE09SD108			01NE09SD109			01NE09SD107			01NE09SD114			01NE09SD113			01NE09SD213		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/23/01			8/23/01			8/23/01			8/24/01			8/24/01			8/24/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
1,1,1,2-tetrachloroethane	180	U		81	U		220	U		440	U		270	U		98	U	
1,1,1-trichloroethane	200			81	U		220	U		440	U		270	U		98	U	
1,1,2,2-tetrachloroethane	180	U		81	U		220	U		440	U		270	U		98	U	
1,1,2-trichloroethane	180	U		81	U		220	U		440	U		270	U		98	U	
1,1-dichloroethane	180	U		81	U		220	U		440	U		270	U		98	U	
1,1-dichloroethene	180	U		81	U		220	U		440	U		270	U		98	U	
1,1-dichloropropene	180	U		81	U		220	U		440	U		270	U		98	U	
1,2,3-trichlorobenzene	910	U		400	U		1100	U		2200	U		1400	U		490	U	
1,2,3-trichloropropane	360	U		160	U		440	U		880	U		540	U		200	U	
1,2,4-trichlorobenzene	910	U		400	U		1100	U		2200	U		1400	U		490	U	
1,2,4-trimethylbenzene	180	U		81	U		220	U		440	U		270	U		98	U	
1,2-dibromo-3-chloropropane	910	U		400	U		1100	U		2200	U		1400	U		490	U	
1,2-dichlorobenzene	180	U		81	U		220	U		440	U		270	U		98	U	
1,2-dichloroethane	180	U		81	U		220	U		440	U		270	U		98	U	
1,2-dichloropropane	180	U		81	U		220	U		440	U		270	U		98	U	
1,3,5-trimethylbenzene	180	U		81	U		220	U		440	U		270	U		98	U	
1,3-dichlorobenzene	180	U		81	U		220	U		440	U		270	U		98	U	
1,3-dichloropropane	180	U		81	U		220	U		440	U		270	U		98	U	
1,4-dichlorobenzene	180	U		81	U		220	U		440	U		270	U		98	U	
112trichloro122trifluoroethane	180	U		81	U		220	U		440	U		270	U		98	U	
2,2-dichloropropane	180	U		81	U		220	U		440	U		270	U		98	U	
2-butanone	910	U		400	U		1100	U		2200	U		1400	UJ	n	490	UJ	n
2-chloroethylvinyl ether	910	U		400	U		1100	U		2200	U		1400	U		490	U	
2-chlorotoluene	180	U		81	U		220	U		440	U		270	U		98	U	
2-hexanone	910	U		400	U		1100	U		2200	U		1400	U		490	U	
4-chlorotoluene	180	U		81	U		220	U		440	U		270	U		98	U	
4-isopropyltoluene	180	U		81	U		220	U		440	U		270	U		98	U	
4-methyl-2-pentanone	910	U		400	U		1100	U		2200	U		1400	U		490	U	
acetone	1500			400	U		1100	U		2200	U		1600			580		

Volatile Organics

DATA SUMMARY TABLE

Sample ID	DN68C			DN68D			DN68E			DN68F			DN68G			DN68H		
Field ID	01NE09SD108			01NE09SD109			01NE09SD107			01NE09SD114			01NE09SD113			01NE09SD213		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/23/01			8/23/01			8/23/01			8/24/01			8/24/01			8/24/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
acrolein	9100	U		4000	U		11000	U		22000	U		14000	U		4900	U	
acrylonitrile	910	U		400	U		1100	U		2200	U		1400	U		490	U	
benzene	180	U		81	U		220	U		440	U		270	U		98	U	
bromobenzene	180	U		81	U		220	U		440	U		270	U		98	U	
bromochloromethane	180	U		81	U		220	U		440	U		270	U		98	U	
bromodichloromethane	180	U		81	U		220	U		440	U		270	U		98	U	
bromoethane	360	U		160	U		440	U		880	U		540	U		200	U	
bromoform	180	U		81	U		220	U		440	U		270	U		98	U	
bromomethane	360	B	a	81	U		220	U		440	U		270	U		98	U	
carbon disulfide	180	U		81	U		220	U		440	U		270	UJ	n	98	UJ	n
carbon tetrachloride	180	U		81	U		220	U		440	U		270	U		98	U	
chlorobenzene	180	U		81	U		220	U		440	U		270	U		98	U	
chloroethane	180	U		81	U		220	U		440	U		270	U		98	U	
chloroform	180	U		81	U		220	U		440	U		270	U		98	U	
chloromethane	180	U		81	U		220	U		440	U		270	UJ	n	98	UJ	n
cis-1,2-dichloroethene	180	U		81	U		220	U		440	U		270	U		98	U	
cis-1,3-dichloropropene	180	U		81	U		220	U		440	U		270	U		98	U	
dibromochloromethane	180	U		81	U		220	U		440	U		270	U		98	U	
dibromomethane	180	U		81	U		220	U		440	U		270	U		98	U	
ethylbenzene	180	U		81	U		220	U		440	U		270	U		98	U	
ethylene dibromide	180	U		81	U		220	U		440	U		270	U		98	U	
hexachlorobutadiene	910	U		400	U		1100	U		2200	U		1400	U		490	U	
isopropylbenzene	180	U		81	U		220	U		440	U		270	U		98	U	
m,p-xylene	180	U		81	U		220	U		440	U		270	U		98	U	
methyl iodide	180	U		81	U		220	U		440	U		270	U		98	U	
methylene chloride	550	U		240	U		660	U		1300	U		820	U		290	U	
n-butylbenzene	360	U		160	U		440	U		880	U		540	U		200	U	
n-propylbenzene	180	U		81	U		220	U		440	U		270	U		98	U	
naphthalene	910	U		400	U		1100	U		2200	U		1400	U		490	U	

Sample ID	DN68C			DN68D			DN68E			DN68F			DN68G			DN68H		
Field ID	01NE09SD108			01NE09SD109			01NE09SD107			01NE09SD114			01NE09SD113			01NE09SD213		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/23/01			8/23/01			8/23/01			8/24/01			8/24/01			8/24/01		
Units	µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg			µg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
o-xylene	180	U		81	U		220	U		440	U		270	U		98	U	
sec-butylbenzene	180	U		81	U		220	U		440	U		270	U		98	U	
styrene	180	U		81	U		220	U		440	U		270	U		98	U	
tert-butylbenzene	180	U		81	U		220	U		440	U		270	U		98	U	
tetrachloroethylene	180	U		81	U		220	U		440	U		270	U		98	U	
toluene	6000			81	U		220	U		440	U		270	UJ	n	98	UJ	n
trans-1,2-dichloroethene	180	U		81	U		220	U		440	U		270	U		98	U	
trans-1,3-dichloropropene	180	U		81	U		220	U		440	U		270	U		98	U	
trans-1,4-dichloro-2-butene	910	U		400	U		1100	U		2200	U		1400	U		490	U	
trichloroethene	180	U		81	U		220	U		440	U		270	U		98	U	
trichlorofluoromethane	180	U		81	U		220	U		440	U		270	U		98	U	
vinyl acetate	910	U		400	U		1100	U		2200	U		1400	U		490	U	
vinyl chloride	180	U		81	U		220	U		440	U		270	U		98	U	

DATA SUMMARY TABLE

Sample ID	DN68L		
Field ID	01NE00TB111		
Matrix	SX		
Date Collected	8/24/01		
Units	µg/Kg		
Analyte	RESULT	Q	RC
1,1,1,2-tetrachloroethane	50	U	
1,1,1-trichloroethane	50	U	
1,1,2,2-tetrachloroethane	50	U	
1,1,2-trichloroethane	50	U	
1,1-dichloroethane	50	U	
1,1-dichloroethene	50	U	
1,1-dichloropropene	50	U	
1,2,3-trichlorobenzene	250	U	
1,2,3-trichloropropane	100	U	
1,2,4-trichlorobenzene	250	U	
1,2,4-trimethylbenzene	50	U	
1,2-dibromo-3-chloropropane	250	U	
1,2-dichlorobenzene	50	U	
1,2-dichloroethane	50	U	
1,2-dichloropropane	50	U	
1,3,5-trimethylbenzene	50	U	
1,3-dichlorobenzene	50	U	
1,3-dichloropropane	50	U	
1,4-dichlorobenzene	50	U	
112trichloro122trifluoroethane	50	U	
2,2-dichloropropane	50	U	
2-butanone	250	U	
2-chloroethylvinyl ether	250	U	
2-chlorotoluene	50	U	
2-hexanone	250	U	
4-chlorotoluene	50	U	
4-isopropyltoluene	50	U	
4-methyl-2-pentanone	250	U	
acetone	250	U	

Analyte	Sample ID: DN68L Field ID: 01NE00TB111 Matrix: SX Date Collected: 8/24/01 Units: µg/Kg RESULT	Q	RC
acrolein	2500	U	
acrylonitrile	250	U	
benzene	50	U	
bromobenzene	50	U	
bromochloromethane	50	U	
bromodichloromethane	50	U	
bromoethane	100	U	
bromoform	50	U	
bromomethane	90	B	a
carbon disulfide	50	U	
carbon tetrachloride	50	U	
chlorobenzene	50	U	
chloroethane	50	U	
chloroform	50	U	
chloromethane	50	U	
cis-1,2-dichloroethene	50	U	
cis-1,3-dichloropropene	50	U	
dibromochloromethane	50	U	
dibromomethane	50	U	
ethylbenzene	50	U	
ethylene dibromide	50	U	
hexachlorobutadiene	250	U	
isopropylbenzene	50	U	
m,p-xylene	50	U	
methyl iodide	50	U	
methylene chloride	150	U	
n-butylbenzene	100	U	
n-propylbenzene	50	U	
naphthalene	250	U	

DATA SUMMARY TABLE

Sample ID	DN68L						
Field ID	01NE00TB111						
Matrix	SX						
Date Collected	8/24/01						
Units	µg/Kg						
Analyte	RESULT	Q	RC				
o-xylene	50	U					
sec-butylbenzene	50	U					
styrene	50	U					
tert-butylbenzene	50	U					
tetrachloroethylene	50	U					
toluene	61						
trans-1,2-dichloroethene	50	U					
trans-1,3-dichloropropene	50	U					
trans-1,4-dichloro-2-butene	250	U					
trichloroethene	50	U					
trichlorofluoromethane	50	U					
vinyl acetate	250	U					
vinyl chloride	50	U					

Sample ID	DN71A			DN71Q			DN71R			DN71S			DN71T			
Field ID	01NE09SW112			01NE09WP102			01NE09MW103			01NE00TB116			01NE09SW111			
Matrix	WX			WX			WX			WX			WX			
Date Collected	8/26/01			8/26/01			8/26/01			8/26/01			8/26/01			
Units	µg/L			µg/L			µg/L			µg/L			µg/L			
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	
1,1,1,2-tetrachloroethane	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
1,1,1-trichloroethane	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
1,1,2,2-tetrachloroethane	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
1,1,2-trichloroethane	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
1,1-dichloroethane	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
1,1-dichloroethene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
1,1-dichloropropene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
1,2,3-trichlorobenzene	5	U		5	U		5	UJ	p	5	UJ	p	5	U		
1,2,3-trichloropropane	3	U		3	U		3	UJ	p	3	UJ	p	3	U		
1,2,4-trichlorobenzene	5	U		5	U		5	UJ	p	5	UJ	p	5	U		
1,2,4-trimethylbenzene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
1,2-dibromo-3-chloropropane	5	U		5	U		5	UJ	p	5	UJ	p	5	U		
1,2-dichlorobenzene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
1,2-dichloroethane	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
1,2-dichloropropane	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
1,3,5-trimethylbenzene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
1,3-dichlorobenzene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
1,3-dichloropropane	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
1,4-dichlorobenzene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
112trichloro122trifluoroethane	2	U		2	U		2	UJ	p	2	UJ	p	2	U		
2,2-dichloropropane	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
2-butanone	5	U		5	U		5	UJ	p	5	UJ	p	5	U		
2-chloroethylvinyl ether	5	U		5	U		5	UJ	p	5	UJ	p	5	U		
2-chlorotoluene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
2-hexanone	5	U		5	U		5	UJ	p	5	UJ	p	5	U		
4-chlorotoluene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
4-isopropyltoluene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
4-methyl-2-pentanone	5	U		5	U		5	UJ	p	5	UJ	p	5	U		
acetone	5	U		5	U		5	UJ	p	5	UJ	p	5	U		

Volatile Organics

DATA SUMMARY TABLE

Sample ID	DN71A			DN71Q			DN71R			DN71S			DN71T			
Field ID	01NE09SW112			01NE09WP102			01NE09MW103			01NE00TB116			01NE09SW111			
Matrix	WX			WX			WX			WX			WX			
Date Collected	8/26/01			8/26/01			8/26/01			8/26/01			8/26/01			
Units	µg/L			µg/L			µg/L			µg/L			µg/L			
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	
acrolein	50	U		50	U		50	UJ	p	50	UJ	p	50	U		
acrylonitrile	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
benzene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
bromobenzene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
bromochloromethane	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
bromodichloromethane	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
bromoethane	2	U		2	U		2	UJ	p	2	UJ	p	2	U		
bromoform	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
bromomethane	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
carbon disulfide	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
carbon tetrachloride	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
chlorobenzene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
chloroethane	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
chloroform	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
chloromethane	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
cis-1,2-dichloroethene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
cis-1,3-dichloropropene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
dibromochloromethane	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
dibromomethane	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
ethylbenzene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
ethylene dibromide	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
hexachlorobutadiene	5	U		5	U		5	UJ	p	5	UJ	p	5	U		
isopropylbenzene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
m,p-xylene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
methyl iodide	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
methylene chloride	2	U		2	U		2	UJ	p	2	UJ	p	2	U		
n-butylbenzene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
n-propylbenzene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
naphthalene	5	U		5	U		5	UJ	p	5	UJ	p	5	U		

Sample ID	DN71A			DN71Q			DN71R			DN71S			DN71T			
Field ID	01NE09SW112			01NE09WP102			01NE09MW103			01NE00TB116			01NE09SW111			
Matrix	WX			WX			WX			WX			WX			
Date Collected	8/26/01			8/26/01			8/26/01			8/26/01			8/26/01			
Units	µg/L			µg/L			µg/L			µg/L			µg/L			
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	
o-xylene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
sec-butylbenzene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
styrene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
tert-butylbenzene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
tetrachloroethylene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
toluene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
trans-1,2-dichloroethene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
trans-1,3-dichloropropene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
trans-1,4-dichloro-2-butene	5	U		5	U		5	UJ	p	5	UJ	p	5	U		
trichloroethene	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
trichlorofluoromethane	1	U		1	U		1	UJ	p	1	UJ	p	1	U		
vinyl acetate	5	U		5	U		5	UJ	p	5	UJ	p	5	U		
vinyl chloride	1	U		1	U		1	UJ	p	1	UJ	p	1	U		

DATA SUMMARY TABLE

Sample ID	DN73A			DN73B			DN73I					
Field ID	01NE30WP101			01NE09SW110			01NE00TB115					
Matrix	WX			WX			WX					
Date Collected	8/25/01			8/25/01			8/24/01					
Units	µg/L			µg/L			µg/L					
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC			
1,1,1,2-tetrachloroethane	1	U		1	U		1	U				
1,1,1-trichloroethane	1	U		1	U		1	U				
1,1,2,2-tetrachloroethane	1	U		1	U		1	U				
1,1,2-trichloroethane	1	U		1	U		1	U				
1,1-dichloroethane	1	U		1	U		1	U				
1,1-dichloroethene	1	U		1	U		1	U				
1,1-dichloropropene	1	U		1	U		1	U				
1,2,3-trichlorobenzene	5	U		5	U		5	U				
1,2,3-trichloropropane	3	U		3	U		3	U				
1,2,4-trichlorobenzene	5	U		5	U		5	U				
1,2,4-trimethylbenzene	1	U		1	U		1	U				
1,2-dibromo-3-chloropropane	5	U		5	U		5	U				
1,2-dichlorobenzene	1	U		1	U		1	U				
1,2-dichloroethane	1	U		1	U		1	U				
1,2-dichloropropane	1	U		1	U		1	U				
1,3,5-trimethylbenzene	1	U		1	U		1	U				
1,3-dichlorobenzene	1	U		1	U		1	U				
1,3-dichloropropane	1	U		1	U		1	U				
1,4-dichlorobenzene	1	U		1	U		1	U				
112trichloro122trifluoroethane	2	U		2	U		2	U				
2,2-dichloropropane	1	U		1	U		1	U				
2-butanone	5	U		5	U		5	U				
2-chloroethylvinyl ether	5	U		5	U		5	U				
2-chlorotoluene	1	U		1	U		1	U				
2-hexanone	5	U		5	U		5	U				
4-chlorotoluene	1	U		1	U		1	U				
4-isopropyltoluene	1	U		1	U		1	U				
4-methyl-2-pentanone	5	U		5	U		5	U				
acetone	13			5	U		5	U				

Sample ID	DN73A			DN73B			DN73I		
Field ID	01NE30WP101			01NE09SW110			01NE00TB115		
Matrix	WX			WX			WX		
Date Collected	8/25/01			8/25/01			8/24/01		
Units	µg/L			µg/L			µg/L		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
acrolein	50	U		50	U		50	U	
acrylonitrile	1	U		1	U		1	U	
benzene	1	U		1	U		1	U	
bromobenzene	1	U		1	U		1	U	
bromochloromethane	1	U		1	U		1	U	
bromodichloromethane	1	U		1	U		1	U	
bromoethane	2	U		2	U		2	U	
bromoform	1	U		1	U		1	U	
bromomethane	1	U		1	U		1	U	
carbon disulfide	1	U		1	U		1	U	
carbon tetrachloride	1	U		1	U		1	U	
chlorobenzene	1	U		1	U		1	U	
chloroethane	1	U		1	U		1	U	
chloroform	1	U		1	U		1	U	
chloromethane	1	U		1	U		1	U	
cis-1,2-dichloroethene	1	U		1	U		1	U	
cis-1,3-dichloropropene	1	U		1	U		1	U	
dibromochloromethane	1	U		1	U		1	U	
dibromomethane	1	U		1	U		1	U	
ethylbenzene	1	U		1	U		1	U	
ethylene dibromide	1	U		1	U		1	U	
hexachlorobutadiene	5	U		5	U		5	U	
isopropylbenzene	1	U		1	U		1	U	
m,p-xylene	1	U		1	U		1	U	
methyl iodide	1	U		1	U		1	U	
methylene chloride	2	U		2	U		2	U	
n-butylbenzene	1	U		1	U		1	U	
n-propylbenzene	1	U		1	U		1	U	
naphthalene	5	U		5	U		5	U	

DATA SUMMARY TABLE

Sample ID	DN73A			DN73B			DN73I					
Field ID	01NE30WP101			01NE09SW110			01NE00TB115					
Matrix	WX			WX			WX					
Date Collected	8/25/01			8/25/01			8/24/01					
Units	µg/L			µg/L			µg/L					
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC			
o-xylene	1	U		1	U		1	U				
sec-butylbenzene	1	U		1	U		1	U				
styrene	1	U		1	U		1	U				
tert-butylbenzene	1	U		1	U		1	U				
tetrachloroethylene	1	U		1	U		1	U				
toluene	1	U		1	U		1	U				
trans-1,2-dichloroethene	1	U		1	U		1	U				
trans-1,3-dichloropropene	1	U		1	U		1	U				
trans-1,4-dichloro-2-butene	5	U		5	U		5	U				
trichloroethene	1	U		1	U		1	U				
trichlorofluoromethane	1	U		1	U		1	U				
vinyl acetate	5	U		5	U		5	U				
vinyl chloride	1	U		1	U		1	U				

Sample ID	DN88A			DN88B			DN88C			DN88F			DN88G			DN88H		
Field ID	01NE07WP102			01NE07WP202			01NE30WP102			01NE07WP103			01NE07WP101			01NE00TB118		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/27/01			8/27/01			8/28/01			8/27/01			8/26/01			8/27/01		
Units	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
1,1,1,2-tetrachloroethane	1	U		1	U		1	U		1	U		1	U		1	UJ	p
1,1,1-trichloroethane	1	U		1	U		1	U		1	U		1	U		1	UJ	p
1,1,2,2-tetrachloroethane	1	U		1	U		1	U		1	U		1	U		1	UJ	p
1,1,2-trichloroethane	1	U		1	U		1	U		1	U		1	U		1	UJ	p
1,1-dichloroethane	1	U		1	U		1	U		1	U		1	U		1	UJ	p
1,1-dichloroethene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
1,1-dichloropropene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
1,2,3-trichlorobenzene	5	U		5	U		5	U		5	U		5	U		5	UJ	p
1,2,3-trichloropropane	3	U		3	U		3	U		3	U		3	U		3	UJ	p
1,2,4-trichlorobenzene	5	U		5	U		5	U		5	U		5	U		5	UJ	p
1,2,4-trimethylbenzene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
1,2-dibromo-3-chloropropane	5	U		5	U		5	U		5	U		5	U		5	UJ	p
1,2-dichlorobenzene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
1,2-dichloroethane	1	U		1	U		1	U		1	U		1	U		1	UJ	p
1,2-dichloropropane	1	U		1	U		1	U		1	U		1	U		1	UJ	p
1,3,5-trimethylbenzene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
1,3-dichlorobenzene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
1,3-dichloropropane	1	U		1	U		1	U		1	U		1	U		1	UJ	p
1,4-dichlorobenzene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
112trichloro122trifluoroethane	2	U		2	U		2	U		2	U		2	U		2	UJ	p
2,2-dichloropropane	1	U		1	U		1	U		1	U		1	U		1	UJ	p
2-butanone	5	U		5	U		5	U		5	U		5	U		5	UJ	p
2-chloroethylvinyl ether	5	U		5	U		5	U		5	U		5	U		5	UJ	p
2-chlorotoluene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
2-hexanone	5	U		5	U		5	U		5	U		5	U		5	UJ	p
4-chlorotoluene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
4-isopropyltoluene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
4-methyl-2-pentanone	5	U		5	U		5	U		5	U		5	U		5	UJ	p
acetone	5	U		5	U		5	U		5	U		19			5	UJ	p

DATA SUMMARY TABLE

Sample ID	DN88A			DN88B			DN88C			DN88F			DN88G			DN88H		
Field ID	01NE07WP102			01NE07WP202			01NE30WP102			01NE07WP103			01NE07WP101			01NE00TB118		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/27/01			8/27/01			8/28/01			8/27/01			8/26/01			8/27/01		
Units	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
acrolein	50	U		50	U		50	U		50	U		50	U		50	UJ	p
acrylonitrile	1	U		1	U		1	U		1	U		1	U		1	UJ	p
benzene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
bromobenzene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
bromochloromethane	1	U		1	U		1	U		1	U		1	U		1	UJ	p
bromodichloromethane	1	U		1	U		1	U		1	U		1	U		1	UJ	p
bromoethane	2	U		2	U		2	U		2	U		2	U		2	UJ	p
bromoform	1	U		1	U		1	U		1	U		1	U		1	UJ	p
bromomethane	1	U		1	U		1	U		1	U		1	U		1	UJ	p
carbon disulfide	1	U		1	U		1	U		1	U		1	U		1	UJ	p
carbon tetrachloride	1	U		1	U		1	U		1	U		1	U		1	UJ	p
chlorobenzene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
chloroethane	1	U		1	U		1	U		1	U		1	U		1	UJ	p
chloroform	1	U		1	U		1	U		1	U		1	U		1	UJ	p
chloromethane	1	U		1	U		1	U		1	U		1	U		3.2	J	p
cis-1,2-dichloroethene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
cis-1,3-dichloropropene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
dibromochloromethane	1	U		1	U		1	U		1	U		1	U		1	UJ	p
dibromomethane	1	U		1	U		1	U		1	U		1	U		1	UJ	p
ethylbenzene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
ethylene dibromide	1	U		1	U		1	U		1	U		1	U		1	UJ	p
hexachlorobutadiene	5	U		5	U		5	U		5	U		5	U		5	UJ	p
isopropylbenzene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
m,p-xylene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
methyl iodide	1	U		1	U		1	U		1	U		1	U		1	UJ	p
methylene chloride	2	U		2	U		2	U		2	U		2	U		2	UJ	p
n-butylbenzene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
n-propylbenzene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
naphthalene	5	UJ	n	5	UJ	n	5	U		5	U		5	U		5	UJ	p

Sample ID	DN88A			DN88B			DN88C			DN88F			DN88G			DN88H		
Field ID	01NE07WP102			01NE07WP202			01NE30WP102			01NE07WP103			01NE07WP101			01NE00TB118		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/27/01			8/27/01			8/28/01			8/27/01			8/26/01			8/27/01		
Units	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
o-xylene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
sec-butylbenzene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
styrene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
tert-butylbenzene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
tetrachloroethylene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
toluene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
trans-1,2-dichloroethene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
trans-1,3-dichloropropene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
trans-1,4-dichloro-2-butene	5	U		5	U		5	U		5	U		5	U		5	UJ	p
trichloroethene	1	U		1	U		1	U		1	U		1	U		1	UJ	p
trichlorofluoromethane	1	U		1	U		1	U		1	U		1	U		1	UJ	p
vinyl acetate	5	U		5	U		5	U		5	U		5	U		5	UJ	p
vinyl chloride	1	U		1	U		1	U		1	U		1	U		1	UJ	p

Dissolved Metals

DATA SUMMARY TABLE

Analyte	Sample ID: DK21B Field ID: 01NE35GW102 Matrix: WX Date Collected: 7/24/01 Units: mg/L RESULT Q RC					
iron	1.79					
manganese	0.165					

Analyte	Sample ID	Field ID	Matrix	Date Collected	Units	RESULT	Q	RC
iron	DK48F	01NE35GW101	WX	7/25/01	mg/L	0.02	U	
manganese	DK48F	01NE35GW101	WX	7/25/01	mg/L	0.089		
iron	DK48G	01NE35GW103	WX	7/25/01	mg/L	0.02	U	
manganese	DK48G	01NE35GW103	WX	7/25/01	mg/L	0.092		
iron	DK48H	01NE35GW104	WX	7/26/01	mg/L	0.33		
manganese	DK48H	01NE35GW104	WX	7/26/01	mg/L	0.105		

Total Metals

DATA SUMMARY TABLE

Sample ID	100302-02			100302-03			100302-04			100302-05			100302-06			100302-08		
Field ID	01NE28SD311			01NE28SD325			01NE28SD351			01NE28SD353			01NE28SD357			01NE28SD339		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
chromium	12	U		20			17			8.1			15			21		
lead	28			13			30			23			16			14		
zinc	62	J	f	43	J	f	80	J	f	34	J	f	43	J	f	60	J	f

Analyte	Sample ID	100413-01			100413-02			100413-03			100413-04			100413-05			100413-06		
	Field ID	01NE29SD325			01NE28SD375			01NE28SD371			01NE28SD363			01NE29SD314			01NE29SW317		
	Matrix	SX			SX			SX			SX			SX			WX		
	Date Collected	8/21/01			8/20/01			8/20/01			8/20/01			8/21/01			8/20/01		
	Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/L		
		RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
aluminum																	0.021	J	m
antimony																	0.025	J	m
arsenic																	0.01	U	
barium																	0.0056		
beryllium																	0.002	U	
cadmium																	0.005	U	
calcium																	7.3		
chromium		15			8.8			11	U		22			19			0.01	U	
cobalt																	0.005	U	
copper																	0.01	U	
iron																	0.39		
lead		25	J	n	35			39			43			30			0.0059	J	m
magnesium																	2.9		
manganese																	0.024		
mercury																	0.0002	UJ	c
nickel																	0.01	U	
potassium																	1.3	J	m
selenium																	0.0075	J	m
silver																	0.039	J	m
sodium																	35		
thallium																	0.02	U	
vanadium																	0.005	U	
zinc		40			32			21			100			60			0.01	U	

Total Metals

DATA SUMMARY TABLE

Analyte	Sample ID: 100418-02 Field ID: 01NE09SW307 Matrix: WX Date Collected: 8/23/01 Units: mg/L RESULT	Q	RC					
aluminum	0.056	J	m					
antimony	0.016	J	m					
arsenic	0.01	U						
barium	0.0046	J	m					
beryllium	0.002	U						
cadmium	0.005	U						
calcium	1.9							
chromium	0.01	U						
cobalt	0.005	U						
copper	0.01	U						
iron	0.21							
lead	0.019	J	n					
magnesium	1							
manganese	0.0077							
mercury	0.0002	U						
nickel	0.01	U						
potassium	0.17	J	m					
selenium	0.05	U						
silver	0.029	B	a					
sodium	4.9							
thallium	0.02	U						
vanadium	0.005	U						
zinc	0.011							

Sample ID	100492-01			100492-04			100492-08			100492-09			100492-13			
Field ID	01NE24SW314			01NE21SS369			01NE16SS365			01NE30SS301			01NE09SD313			
Matrix	WX			SX			SX			SX			SX			
Date Collected	8/24/01			8/24/01			8/23/01			8/24/01			8/24/01			
Units	mg/L			mg/Kg			mg/Kg			mg/Kg			mg/Kg			
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	
aluminum	0.038	J	m	3100						13000			16000			
antimony	0.033	J	m	7.5	J	m				3.9	J	m	4.6	J	m	
arsenic	0.0051	J	m	6	J	m				7.4			12			
barium	0.0099			53						170			120			
beryllium	0.002	U		1.5	U					0.44	J	m	4.7			
cadmium	0.005	U		3.7	U					2.3	U		6.2	U		
calcium	5.4			4100						1500			4100			
chromium	0.01	U		7.5	U					30			28			
cobalt	0.005	U		1.7	J	m				6.4			10			
copper	0.024			6.7	J	m				16			34			
iron	3.2			39000						19000			31000			
lead	0.23	J	f,n	19	J	f	180	J	c	16	J	f	300	J	f	
magnesium	1.4			1200						3500			4500			
manganese	0.028			570						90			210			
mercury	0.0002	U		0.22						0.15			0.2	J	m	
nickel	0.02	U		3.4	J	m				18			16			
potassium	0.87	J	m	490	J	m				740	J	m	1200	J	m	
selenium	0.011	J	m	6.3	J	m				23	U		62	U		
silver	0.012			7.5	U					14	J	n	6	J	m	
sodium	18			750	U					450			1200	U		
thallium	0.0074	J	m	15	U					9.1	U		25	U		
vanadium	0.005	U		11						42			54			
zinc	0.06			240						49			84			

Total Metals

DATA SUMMARY TABLE

Sample ID	DK21A					
Field ID	01NE35GW102					
Matrix	WX					
Date Collected	7/24/01					
Units	mg/L					
Analyte	**RESULT Q RC**					
iron	45.3					
manganese	0.204					

DATA SUMM. . TABLE

Sample ID	DK48A			DK48B			DK48C					
Field ID	01NE35GW101			01NE35GW103			01NE35GW104					
Matrix	WX			WX			WX					
Date Collected	7/25/01			7/25/01			7/26/01					
Units	mg/L			mg/L			mg/L					
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC			
iron	10.4			2.78			9.18					
manganese	0.161			0.122			0.165					

Total Metals

DATA SUMMARY TABLE

Sample ID	DN03G			DN03J						
Field ID	01NE07SW104			01NE07SW105						
Matrix	WX			WX						
Date Collected	8/19/01			8/19/01						
Units	µg/L			µg/L						
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**				
aluminum	320			240	J	t				
antimony	50	U		50	UJ	t				
arsenic	1	U		1	UJ	t				
barium	8			12	J	t				
beryllium	1	U		1	UJ	t				
cadmium	2	U		2	UJ	t				
calcium	3320			4990	J	t				
chromium	5	U		5	UJ	t				
cobalt	3	U		3	UJ	t				
copper	3			2	J	t				
iron	1160			3660	J	t				
lead	4			2	J	t				
magnesium	1280			1440	J	t				
manganese	7			96	J	t				
mercury	0.1	U		0.1	UJ	t				
nickel	10	U		10	UJ	t				
potassium	810			500	UJ	t				
selenium	2	U		2	UJ	t				
silver	3	U		3	UJ	t				
sodium	6290			4720	J	t				
thallium	1	U		1	UJ	t				
vanadium	3	U		3	UJ	t				
zinc	20			19	J	t				

Tot. etals

DATA SUM. .Y TABLE

Sample ID	DN04A			DN04B			DN04C			DN04D			DN04E			DN04F		
Field ID	01NE28SD117			01NE28SD118			01NE28SD119			01NE28SD120			01NE28SD121			01NE28SD122		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/18/01			8/18/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
chromium	4.4			19			39			13			9			4	U	
lead	5			9			70			20	U		10	U		20	U	
zinc	17			40.1			1040			28			21			15		

Total Metals

DATA SUMMARY TABLE

Sample ID	DN04G			DN04H			DN04I			DN04J			DN04K			DN04L		
Field ID	01NE28SD123			01NE28SD124			01NE28SD125			01NE28SD126			01NE28SD127			01NE28SD128		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/18/01			8/18/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
chromium	7			19			18			9			12			18		
lead	9	U		8	U		7			10	U		9	U		13		
zinc	13			30			30			36			33			59		

Sample ID	DN04M			DN04N			DN04O			DN04P			DN04Q			DN04R		
Field ID	01NE28SD225			01NE28SD129			01NE28SD130			01NE28SD131			01NE28SD132			01NE28SD133		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/18/01			8/18/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
chromium	17			5			10			18.6			19			10		
lead	5			10	U		20			21			20	U		9	U	
zinc	29			12			96			96.3			114			45		

Total Metals

DATA SUMMARY TABLE

Sample ID	DN04S					
Field ID	01NE28SD134					
Matrix	SX					
Date Collected	8/18/01					
Units	mg/Kg					
Analyte	**RESULT**	**Q**	**RC**			
chromium	22					
lead	10	U				
zinc	63					

Tot. .tals

DATA SUM. .Y TABLE

Sample ID	DN05A			DN05B			DN05C			DN05D			DN05E			DN05F		
Field ID	01NE28SD153			01NE28SD154			01NE28SD155			01NE28SD156			01NE28SD157			01NE28SD158		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
chromium	13.2			17.1			649			19.9			25.5			8		
lead	32			30			4590			113			20			12		
zinc	65.5			65.1			4810			511			64.2			17		

Total Metals

DATA SUMMARY TABLE

Sample ID	DN05G	DN05H				
Field ID	01NE28SD253	01NE28SD257				
Matrix	SX	SX				
Date Collected	8/19/01	8/19/01				
Units	mg/Kg	mg/Kg				
Analyte	**RESULT Q RC**	**RESULT Q RC**				
chromium	12.8	22.6				
lead	60	19				
zinc	67	56.6				

Sample ID	DN06A			DN06B			DN06C			DN06D			DN06E			DN06F		
Field ID	01NE28SD135			01NE28SD136			01NE28SD137			01NE28SD138			01NE28SD139			01NE28SD140		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			8/19/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
chromium	9.9			31			24			24.6			22			19		
lead	4			64			13			13			13			17		
zinc	22.2			200			51			48			53			50		

Total Metals

DATA SUMMARY TABLE

	Sample ID	DN06G			DN06H			DN06I			DN06J			DN06K			DN06L		
	Field ID	01NE28SD239			01NE28SD141			01NE28SD142			01NE28SD143			01NE28SD144			01NE28SD145		
	Matrix	SX			SX			SX			SX			SX			SX		
	Date Collected	8/19/01			8/19/01			8/19/01			8/19/01			8/19/01			8/19/01		
	Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte		**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
chromium		21			21.7			22			40			24			24		
lead		9			10			12			75			27			17		
zinc		51			33			23			223			91			50		

Sample ID	DN06M	DN06N	DN06O	DN06P	DN06Q	DN06R
Field ID	01NE28SD146	01NE28SD147	01NE28SD148	01NE28SD149	01NE28SD150	01NE28SD151
Matrix	SX	SX	SX	SX	SX	SX
Date Collected	8/19/01	8/19/01	8/19/01	8/19/01	8/19/01	8/19/01
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Analyte	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC
chromium	24	20	17	26.6	20.9	19.4
lead	13	24	14	82	22	21
zinc	34	68.7	43	266	78.4	60.9

Total Metals

DATA SUMMARY TABLE

	Sample ID	DN06S		DN06T				
	Field ID	01NE28SD251		01NE28SD152				
	Matrix	SX		SX				
	Date Collected	8/19/01		8/19/01				
	Units	mg/Kg		mg/Kg				
Analyte		RESULT	Q RC	RESULT	Q RC			
chromium		17.7		22.3				
lead		23		22				
zinc		67.9		68.7				

DATA SUM. / TABLE

Sample ID	DN07D			DN07E			DN07F			DN07G			DN07H			DN07I		
Field ID	01NE28SD111			01NE28SD211			01NE28SD112			01NE28SD113			01NE28SD114			01NE28SD115		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/18/01			8/18/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
chromium	17			17			23.7			12			20			10		
lead	20			20	U		14			10			10			10	U	
zinc	94			77			46			183			37			16		

Total Metals

DATA SUMMARY TABLE

Sample ID	DN07J			DN07K			DN07L			DN07N			DN07O			DN07P		
Field ID	01NE28SD116			01NE06SD116			01NE06SD117			01NE07SS125			01NE07SS126			01NE07SS127		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/19/01			8/19/01			8/19/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aluminum				7790			9850			10800			11700			11300		
antimony				20	U		6	U		30	U		30	U		20	U	
arsenic				20	U		6	U		50			30	U		30		
barium				53			53.8			63			78			135		
beryllium				0.6			0.8			0.8			0.9			0.9		
cadmium				0.7	U		0.2	U		2			3			1.3		
calcium				1790			2360			2050			5070			2860		
chromium	25.7			6			13.9			64			75			65		
cobalt				2			5.1			17			19			17		
copper				7.4			8			91			97			120		
iron				12200			16400			152000			112000			129000		
lead	9			8			15			350			460			419		
magnesium				1530			2900			2630			2900			3180		
manganese				72.7			164			694			520			559		
mercury				0.2	U		0.06	U		0.56			0.3			0.47		
nickel				5			9			37			43			57		
potassium				1500			820			900			1010			1080		
selenium				20	U		6	U		30	U		30	U		20	U	
silver				1	U		0.4	U		2			2			1	U	
sodium				450			160			180			180			210		
thallium				20	U		6	U		30	U		30	U		20	U	
vanadium				16			25.8			30			31			29		
zinc	45.1			20			29.8			175			444			294		

Sample ID	DN07Q			DN07R							
Field ID	01NE07SD105			01NE07SD104							
Matrix	SX			SX							
Date Collected	8/19/01			8/19/01							
Units	mg/Kg			mg/Kg							
Analyte	RESULT	Q	RC	RESULT	Q	RC					
aluminum	3640			12000							
antimony	20	U		20	U						
arsenic	20	U		20	U						
barium	28			77.4							
beryllium	0.4			1.2							
cadmium	1.1			1							
calcium	1780			3040							
chromium	5			19							
cobalt	2			3.2							
copper	13.6			27.5							
iron	8380			18400							
lead	20			41							
magnesium	740			2140							
manganese	55.3			79.5							
mercury	0.1	U		0.1							
nickel	5			13							
potassium	370			1000							
selenium	20	U		20	U						
silver	1	U		1	U						
sodium	120			180							
thallium	20	U		20	U						
vanadium	9.8			25.4							
zinc	62			203							

Total Metals

DATA SUMMARY TABLE

Sample ID	DN36A			DN36B			DN36C			DN36D			DN36E			
Field ID	01NE29SW117			01NE29SW217			01NE29SW116			01NE29SW115			01NE29SW114			
Matrix	WX			WX			WX			WX			WX			
Date Collected	8/20/01			8/20/01			8/21/01			8/21/01			8/21/01			
Units	µg/L			µg/L			µg/L			µg/L			µg/L			
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	
aluminum	40			40			40			40			40			
antimony	50	U		50	U		50	U		50	U		50	U		
arsenic	1	U		1	U		1	U		1	U		1	U		
barium	5			5			5			5			5			
beryllium	1	U		1	U		1	U		1	U		1	U		
cadmium	2	U		2	U		2	U		2	U		2	U		
calcium	7170			7250			6900			7440			7620			
chromium	5	U		5	U		5	U		5	U		5	U		
cobalt	3	U		3	U		3	U		3	U		3	U		
copper	2	U		2	U		2	U		2	U		2	U		
iron	400			350			320			360			310			
lead	1	U		1	U		1	U		1	U		1	U		
magnesium	2550			2600			2400			2030			1980			
manganese	21			21			21			27			17			
mercury	0.1	U		0.1	U		0.1	U		0.1	U		0.1	U		
nickel	10	U		10	U		10	U		10	U		10	U		
potassium	900			1100			700			500	U		700			
selenium	2	U		2	U		2	U		2	U		2	U		
silver	3	U		3	U		3	U		3	U		3	U		
sodium	27900			29100			25300			14500			14200			
thallium	1	U		1	U		1	U		1	U		1	U		
vanadium	3	U		3	U		3	U		3	U		3	U		
zinc	6	U		13			6	U		6	U		6	U		

Sample ID	DN38A			DN38B			DN38C			DN38D			DN38E			DN38F		
Field ID	01NE29SD114			01NE29SD214			01NE29SD115			01NE29SD116			01NE29SD117			01NE29SD118		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/21/01			8/21/01			8/21/01			8/21/01			8/21/01			8/21/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
chromium	18			16			11			15			2.8			11.3		
lead	17			14			8			15			8			11		
zinc	53			44			34			46			26.6			35		

Total Metals

DATA SUMMARY TABLE

Sample ID	DN38G			DN38H			DN38I			DN38J			DN38K			DN38L		
Field ID	01NE29SD119			01NE28SD165			01NE28SD166			01NE28SD167			01NE28SD168			01NE28SD169		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/21/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
chromium	24.9			27.4			30.1			57.1			24.4			27.1		
lead	24			61			18			219			57			48		
zinc	43.5			71.8			52.2			186			113			94.9		

Sample ID	DN38M					
Field ID	01NE28SD170					
Matrix	SX					
Date Collected	8/20/01					
Units	mg/Kg					
Analyte	RESULT Q RC					
chromium	24.9					
lead	36					
zinc	81.4					

Total Metals

DATA SUMMARY TABLE

Sample ID	DN39A			DN39B			DN39C			DN39D			DN39E			DN39F		
Field ID	01NE28SD159			01NE28SD160			01NE28SD161			01NE28SD163			01NE28SD164			01NE28SD263		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/20/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
chromium	28.2			24.5			26.8			21.4			21.4			23.2		
lead	46			28			36			28			22			29		
zinc	80.4			71.7			148			155			53.2			89.2		

Sample ID	DN39G			DN39H			DN39I			DN39J			DN39K			DN39L		
Field ID	01NE28SD171			01NE28SD172			01NE28SD173			01NE28SD174			01NE28SD175			01NE28SD176		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/20/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
chromium	9			15			29			26.1			14			12		
lead	20	U		30			22			14			30			20		
zinc	19			104			54			47.9			48			68		

Total Metals

DATA SUMMARY TABLE

Sample ID	DN39M			DN39N			DN39O			DN39P			DN39Q			DN39R		
Field ID	01NE28SD271			01NE28SD275			01NE28SD177			01NE28SD178			01NE28SD179			01NE28SD180		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/20/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
chromium	8			9			20			21			14.4			31.3		
lead	10	U		10	U		39			33			24			42		
zinc	17			16			62			66			49.3			99.5		

To. .etals DATA SU\ \Y TABLE

Sample ID	DN39S	DN39T				
Field ID	01NE28SD181	01NE28SD182				
Matrix	SX	SX				
Date Collected	8/20/01	8/20/01				
Units	mg/Kg	mg/Kg				
Analyte	RESULT Q RC	RESULT Q RC				
chromium	19	21				
lead	30	39				
zinc	124	65				

Total Metals

DATA SUMMARY TABLE

Sample ID	DN40A			DN40B			DN40C			DN40D			DN40E			DN40F		
Field ID	01NE29SD123			01NE29SD124			01NE29SD125			01NE29SD225			01NE29SD128			01NE29SD129		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/21/01			8/21/01			8/21/01			8/21/01			8/21/01			8/21/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aluminum													13100			4820		
antimony													7	UR	c	5	UR	c
arsenic													7	U		5	U	
barium													104			39.8		
beryllium													0.3			0.2		
cadmium													0.3	U		0.2	U	
calcium													1890			1580		
chromium	27			7.3			12.8			12.5			20.8			6.1		
cobalt													3.9			2		
copper													10.8			1.8		
iron													12900			8720		
lead	23			9			9	J	n	7	J	n	8			4		
magnesium													3290			2030		
manganese													90.1			96.1		
mercury													0.05			0.04	U	
nickel													13			5		
potassium													1020			1360		
selenium													7	U		5	U	
silver													0.4	U		0.3	U	
sodium													713			577		
thallium													7	U		5	U	
vanadium													35			16.7		
zinc	69			34.6			32.1			27.5			33.1			17.9		

Sample ID	DN40G			DN40H			DN40I			DN40M			DN40N			
Field ID	01NE29SD120			01NE29SD121			01NE29SD122			01NE29SD127			01NE29SD126			
Matrix	SX			SX			SX			SX			SX			
Date Collected	8/21/01			8/21/01			8/21/01			8/21/01			8/21/01			
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	
aluminum										12100			15900			
antimony										7	UR	c	10	UR	c	
arsenic										7	U		10	U		
barium										88.6			115			
beryllium										0.7			1.3			
cadmium										0.3	U		0.4	U		
calcium										2260			3270			
chromium	3.9			4.9			2.9			17.8			22.9			
cobalt										7			4.8			
copper										11			10.9			
iron										9520			14900			
lead	5			5			6			9			14			
magnesium										2650			3770			
manganese										80.1			114			
mercury										0.06	U		0.09	U		
nickel										13			14			
potassium										930			1140			
selenium										7	U		10	U		
silver										0.4	U		0.6	U		
sodium										530			416			
thallium										7	U		10	U		
vanadium										30			34.2			
zinc	14.4			19.7			16.2			31.4			44			

Total Metals

DATA SUMMARY TABLE

Sample ID	DN53A			DN53F			DN53G			DN53H				
Field ID	01NE09SW109			01NE09SW207			01NE09SW108			01NE09SW107				
Matrix	WX			WX			WX			WX				
Date Collected	8/23/01			8/23/01			8/23/01			8/23/01				
Units	µg/L			µg/L			µg/L			µg/L				
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC		
aluminum	100	J	t	80			130			50				
antimony	50	UJ	t	50	U		50	U		50	U			
arsenic	1	UJ	t	1	U		1	U		1	U			
barium	20	J	t	5			5			5				
beryllium	1	UJ	t	1	U		1	U		1	U			
cadmium	2	UJ	t	2	U		2	U		2	U			
calcium	2950	J	t	1780			1650			1740				
chromium	5	UJ	t	5	U		5	U		5	U			
cobalt	3	UJ	t	3	U		3	U		3	U			
copper	4	J	t	2	U		2	U		2	U			
iron	1150	J	t	150			310			120				
lead	6	J	t	1	UJ	n	1	U		1	UJ	n		
magnesium	820	J	t	880			850			850				
manganese	12	J	t	6			8			6				
mercury	0.1	UJ	t	0.1	U		0.1	U		0.1	U			
nickel	10	UJ	t	10	U		10	U		10	U			
potassium	500	UJ	t	500	U		500	U		500	U			
selenium	2	UJ	t	2	U		2	U		2	U			
silver	3	UJ	t	3	U		3	U		3	U			
sodium	4040	J	t	4080			4020			4000				
thallium	1	UJ	t	1	U		1	U		1	U			
vanadium	3	UJ	t	3	U		3	U		3	U			
zinc	60	J	t	6	U		6	U		6	U			

Sample ID	DN68A			DN68B			DN68F					
Field ID	01NE21SS169			01NE21SS269			01NE09SD114					
Matrix	SX			SX			SX					
Date Collected	8/24/01			8/24/01			8/24/01					
Units	mg/Kg			mg/Kg			mg/Kg					
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC			
aluminum	3940			4010			15300					
antimony	30	U		30	U		30	U				
arsenic	30	U		30	U		30	U				
barium	59			54			71					
beryllium	0.5	U		0.5	U		1.6					
cadmium	1	U		1	U		1	U				
calcium	4570			4310			4940					
chromium	4			4			16					
cobalt	3			2			5					
copper	4			4			16					
iron	41200			44600			13000					
lead	10	U		10	U		40					
magnesium	1320			1320			2920					
manganese	690			561			247					
mercury	0.3	U		0.2	U		0.3	U				
nickel	5	U		5	U		10					
potassium	650			470			650					
selenium	30	U		30	U		30	U				
silver	2	U		2	U		2	U				
sodium	170			250			240					
thallium	30	U		30	U		30	U				
vanadium	8			9			24					
zinc	302			253			38					

Total Metals

DATA SUMMARY TABLE

Sample ID	DN69A			DN69B			DN69C			DN69D			DN69E			DN69F		
Field ID	01NE21SB169			01NE21SB170			01NE21SS170			01NE21SB171			01NE21SS171			01NE21SS172		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
aluminum	18100			13400			14700			14800			17300			19400		
antimony	7	U		8	U		10	U		6	U		10	U		20	U	
arsenic	7	U		8	U		10	U		6	U		10	U		20	U	
barium	122			97.2			103			122			136			96		
beryllium	0.3			0.7			0.8			1			1.6			1.4		
cadmium	0.3	U		0.3	U		0.9			0.4			1.3			1	U	
calcium	1320			3400			4190			5240			4600			5160		
chromium	27.4			20.5			22			41			39.8			25		
cobalt	3.8			5.2			4.5			8.3			12.1			7		
copper	10.6			27.2			36.3			16.4			23.7			37.3		
iron	12700			16700			19600			23900			29500			41200		
lead	12			13			25			21			23			67		
magnesium	3380			3330			3380			8770			6100			4460		
manganese	77.2			151			154			452			765			320		
mercury	0.09			0.07			0.25			0.06	U		0.07	U		0.2	U	
nickel	13			13			16			26			27			17		
potassium	980			1000			910			3670			1960			1450		
selenium	7	U		8	U		10	U		6	U		10	U		20	U	
silver	0.4	U		0.5	U		0.9			0.4	U		0.6	U		1	U	
sodium	170			239			260			457			295			470		
thallium	7	U		8	U		10	U		6	U		10	U		20	U	
vanadium	40			34.7			38.8			51.6			50.1			46		
zinc	29.5			63.2			166			133			256			184		

Sample ID	DN69G			DN69H			DN69I		
Field ID	01NE21SS173			01NE21SD113			01NE21SD114		
Matrix	SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01		
Units	mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
aluminum	13200			24600			33100		
antimony	8	U		10	U		20	U	
arsenic	8	U		10	U		20	U	
barium	115			155			193		
beryllium	0.7			1.7			1.8		
cadmium	0.8			0.9			1.2		
calcium	3450			3920			6910		
chromium	23.2			36			50		
cobalt	4.7			11.2			14.2		
copper	28.3			37.4			54.6		
iron	14700			57400			51400		
lead	17			58			64		
magnesium	3400			6080			8250		
manganese	163			786			560		
mercury	0.16			0.1	U		0.1	U	
nickel	13			23			33		
potassium	880			1950			3180		
selenium	8	U		10	U		20	U	
silver	0.5	U		0.7	U		1	U	
sodium	239			380			580		
thallium	8	U		10	U		20	U	
vanadium	34.8			62.6			81.1		
zinc	167			150			190		

Total Metals

DATA SUMMARY TABLE

Sample ID	DN71A			DN71B			DN71D			DN71E			DN71K			DN71L		
Field ID	01NE09SW112			01NE09WP102			01NE09MW103			01NE09SW111			01NE31SW101			01NE31SW102		
Matrix	WX			WX			WX			WX			WX			WX		
Date Collected	8/26/01			8/26/01			8/26/01			8/26/01			8/24/01			8/24/01		
Units	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aluminum	40	J	t	48900	J	t	164000	J	t	230			50			20	U	
antimony	50	UJ	t	50	UJ	t	120	J	t	50	U		50	U		50	U	
arsenic	1	UJ	t	12	J	t	5	UJ	t	1	U		1	U		1	U	
barium	5	J	t	271	J	t	1160	J	t	6			3	U		3		
beryllium	1	UJ	t	4	J	t	14	J	t	1	U		1	U		1	U	
cadmium	2	UJ	t	2	J	t	4	J	t	2	U		2	U		2	U	
calcium	1750	J	t	7970	J	t	58600	J	t	1010			2210			2060		
chromium	5	UJ	t	75	J	t	99	J	t	5	U		5	U		5	U	
cobalt	3	UJ	t	12	J	t	37	J	t	3	U		3	U		3	U	
copper	2	UJ	t	46	J	t	68	J	t	2	U		2	U		2	U	
iron	200	J	t	77300	J	t	322000	J	t	1540			30			20	U	
lead	1	UJ	t	56	J	t	300	J	t	1	U		1	U		1	U	
magnesium	860	J	t	8570	J	t	38900	J	t	950			850			800		
manganese	12	J	t	326	J	t	2240	J	t	29			5			1		
mercury	0.1	UJ	t	0.2	J	t	0.4	J	t	0.1	U		0.1	U		0.1	U	
nickel	10	UJ	t	110	J	t	80	J	t	10	U		10	U		10	U	
potassium	500	J	t	3000	J	t	16400	J	t	1000			500	U		500	U	
selenium	2	UJ	t	2	UJ	t	10	UJ	t	2	U		2	U		2	U	
silver	3	UJ	t	3	UJ	t	3	UJ	t	3	U		3	U		3	U	
sodium	4290	J	t	9090	J	t	46900	J	t	4370			4170			4090		
thallium	1	UJ	t	1	UJ	t	5	UJ	t	1	U		1	U		1	U	
vanadium	3	UJ	t	97	J	t	149	J	t	3	U		3	U		3	U	
zinc	6	UJ	t	419	J	t	512	J	t	11			6	U		6	U	

Sample ID	DN71O			DN71P						
Field ID	01NE21SW114			01NE09SW110						
Matrix	WX			WX						
Date Collected	8/24/01			8/25/01						
Units	µg/L			µg/L						
Analyte	RESULT	Q	RC	RESULT	Q	RC				
aluminum	710			190						
antimony	50	U		50	U					
arsenic	2			1	U					
barium	10			6						
beryllium	1	U		1	U					
cadmium	2	U		2	U					
calcium	11400			1670						
chromium	5	U		5	U					
cobalt	3	U		3	U					
copper	2	U		2	U					
iron	6340			550						
lead	2			1	U					
magnesium	2490			840						
manganese	494			9						
mercury	0.1	U		0.1	U					
nickel	10	U		10	U					
potassium	2600			500	U					
selenium	2	U		2	U					
silver	3	U		3	U					
sodium	38100			4210						
thallium	1	U		1	U					
vanadium	3	U		3	U					
zinc	9			6	U					

Total Metals

DATA SUMMARY TABLE

Sample ID	DN73A			DN73C			DN73J			DN73K			DN73L			
Field ID	01NE30WP101			01NE06WP103			01NE21SW113			01NE24SW214			01NE24SW114			
Matrix	WX			WX			WX			WX			WX			
Date Collected	8/25/01			8/25/01			8/24/01			8/24/01			8/24/01			
Units	µg/L			µg/L			µg/L			µg/L			µg/L			
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	
aluminum	8170			78300			110			20			30			
antimony	50	U		50	U		50	U		50	U		50	U		
arsenic	7			22			2			1	U		1	U		
barium	102			406			5			8			10			
beryllium	1	U		4			1	U		1	U		1	U		
cadmium	2	U		6			2	U		2	U		2	U		
calcium	3680			15800			13600			4420			5480			
chromium	30			1220			5	U		5	U		5	U		
cobalt	5			52			3	U		3	U		3	U		
copper	17			260			2	U		20			26			
iron	13500			98800			4170			2440			3060			
lead	7			160			1	U		1	J	n	1	UJ	n	
magnesium	3970			15600			2960			1060			1340			
manganese	56			1580			687			21			25			
mercury	0.2			0.1			0.1	U		0.1	U		0.1	U		
nickel	90			1680			10	U		10	U		10	U		
potassium	1730			7920			2350			500	U		650			
selenium	2	U		4	U		2	U		2	U		2	U		
silver	3	U		3	U		3	U		3	U		3	U		
sodium	13000			17700			27000			13000			16300			
thallium	1	U		2			1	U		1	U		1	U		
vanadium	20			153			3	U		3	U		3	U		
zinc	146			17700			6	U		47			55			

Sample ID	DN76A			DN76B			DN76C			DN76D			DN76E			DN76F		
Field ID	01NE16SS165			01NE16SS265			01NE16SS166			01NE09SD107			01NE09SD108			01NE30SS101		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/23/01			8/23/01			8/23/01			8/23/01			8/23/01			8/24/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
aluminum										7740			20000			19700		
antimony										30	UJ	c	20	UJ	c	10	UJ	c
arsenic										30	U		20	U		10	U	
barium										72			111			173		
beryllium										0.7			2			0.3		
cadmium										1	U		0.9	U		0.5	U	
calcium										2020			2090			2000		
chromium										5			22			31		
cobalt										2	U		4			5.8		
copper										6			15.9			14.2		
iron										31100			22200			17500		
lead	205			240			42			10	U		27			15		
magnesium										930			2980			4150		
manganese										50.5			125			86.8		
mercury										0.2	U		0.2	U		0.1		
nickel										6	U		10			18		
potassium										290	U		1060			1250		
selenium										30	U		20	U		10	U	
silver										2	U		1	U		0.7	UJ	n
sodium										180			270			240		
thallium										30	U		20	U		10	U	
vanadium										21			44			44.5		
zinc										15			42			45		

Total Metals

DATA SUMMARY TABLE

Sample ID	DN76G			DN76H			DN76I			DN76J			DN76K			DN76L		
Field ID	01NE30SD101			01NE30SS103			01NE30SS102			01NE09SD109			01NE09SD213			01NE24SD114		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
aluminum	21700			640			13200			4640			17400			7110		
antimony	50	J	c	30	UJ	c	15	J	c	250	J	c	30	UJ	c	70	J	c
arsenic	20	U		30	U		6	U		60	U		30	U		50	U	
barium	209			34			85.3			112			92			143		
beryllium	3.3			0.7	U		1			1	U		3.3			0.9	U	
cadmium	4			1	U		0.5			7			1	U		2	U	
calcium	5440			2530			4040			1910			3540			10200		
chromium	30			3	U		52.1			42			21			13		
cobalt	22			2	U		10.8			38			6			23		
copper	29.8			2			41.3			429			25			368		
iron	105000			6730			26400			483000			22500			56400		
lead	59			10	U		28			630			340			140		
magnesium	4810			1630			7250			1030			3390			1990		
manganese	6480			8			340			970			132			249		
mercury	0.1	U		0.3	U		0.04	U		0.6			0.2	U		0.3	U	
nickel	30			7	U		31			110			10			24		
potassium	1510			340	U		2340			970			1120			960		
selenium	20	U		30	U		6	U		60	U		30	U		50	U	
silver	1	U		2	U		0.3	U		3	U		2	U		3	U	
sodium	410			270			222			280			290			670		
thallium	20	U		30	U		6	U		60	U		30	U		50	U	
vanadium	48			4			35.8			3	U		41			30		
zinc	368			9			89			1790			58			1480		

Sample ID	DN76M			DN76O			DN76P					
Field ID	01NE24SD115			01NE30SS201			01NE09SD113					
Matrix	SX			SX			SX					
Date Collected	8/24/01			8/24/01			8/24/01					
Units	mg/Kg			mg/Kg			mg/Kg					
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC			
aluminum	5570			17800			18600					
antimony	11	J	c	9	UJ	c	30	UJ	c			
arsenic	7	U		9	U		30	U				
barium	30.4			160			105					
beryllium	0.6			0.5			3.8					
cadmium	0.5			0.4	U		1					
calcium	1670			1810			3140					
chromium	12.3			28.5			19					
cobalt	6.9			5.3			6					
copper	212			13.7			23					
iron	26100			15200			19600					
lead	49			11			100					
magnesium	1400			3790			3050					
manganese	182			80.3			107					
mercury	0.06	U		0.1			0.2	U				
nickel	18			16			13					
potassium	520			1040			1000					
selenium	7	U		9	U		30	U				
silver	0.4	U		0.6	UJ	n	2	U				
sodium	131			227			210					
thallium	7	U		9	U		30	U				
vanadium	12.7			38.1			35					
zinc	227			42			58					

Total Metals

DATA SUMMARY TABLE

Sample ID	DN88A			DN88C			DN88E			DN88F				
Field ID	01NE07WP102			01NE30WP102			01NE07WP101			01NE07WP103				
Matrix	WX			WX			WX			WX				
Date Collected	8/27/01			8/28/01			8/28/01			8/27/01				
Units	µg/L			µg/L			µg/L			µg/L				
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**		
aluminum	25800			820			10600	J	t	14700				
antimony	50	U		50	U		50	UJ	t	50	U			
arsenic	4			3			10	J	t	4				
barium	130			21			126	J	t	130				
beryllium	2			1	U		1	UJ	t	1	U			
cadmium	2	U		2	U		2	UJ	t	2	U			
calcium	4310			1330			7570	J	t	3960				
chromium	14			5	U		255	J	t	14				
cobalt	4			3	U		64	J	t	4				
copper	18			2			67	J	t	11				
iron	18700			7900			47100	J	t	11200				
lead	17			2			40	J	t	6				
magnesium	3620			1420			3770	J	t	3710				
manganese	60			90			593	J	t	105				
mercury	0.2			0.1	U		0.2	J	t	0.1	U			
nickel	10	U		10	U		3540	J	t	10	U			
potassium	2000			1300			5300	J	t	1600				
selenium	2	U		2	U		2	UJ	t	2	U			
silver	3	U		3	U		3	UJ	t	3	U			
sodium	10300			6520			8480	J	t	12600				
thallium	1	U		1	U		1	UJ	t	1	U			
vanadium	35			3	U		79	J	t	29				
zinc	23			6	U		2470	J	t	20				

Tot tals DATA SUM Y TABLE

Sample ID	DY36A	DY36B	DY36C	DY36D	DY36E	DY36F
Field ID	01NE09SD107	01NE09SD108	01NE30SS101	01NE30SD101	01NE30SS103	01NE30SS102
Matrix	SX	SX	SX	SX	SX	SX
Date Collected	8/23/01	8/23/01	8/24/01	8/24/01	8/24/01	8/24/01
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Analyte	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC
arsenic	8	5.9	5.3	19.8	2 U	4.4

Total Metals

DATA SUMMARY TABLE

Sample ID	DY36G			DY36H			DY36I			DY36J			DY36K			DY36L		
Field ID	01NE09SD109			01NE09SD213			01NE24SD114			01NE24SD115			01NE30SS201			01NE09SD113		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
arsenic	25.7			7.2			11			5.6			3.6			10		

Sample ID	DY38A	DY38B	DY38C			
Field ID	01NE21SS169	01NE21SS269	01NE09SD114			
Matrix	SX	SX	SX			
Date Collected	8/24/01	8/24/01	8/24/01			
Units	mg/Kg	mg/Kg	mg/Kg			
Analyte	**RESULT Q RC**	**RESULT Q RC**	**RESULT Q RC**			
arsenic	7.4	7	6			

Total Metals

DATA SUMMARY TABLE

	Sample ID	DY39A			DY39B			DY39C			DY39D			DY39E			DY39F		
	Field ID	01NE21SB169			01NE21SB170			01NE21SS170			01NE21SB171			01NE21SS171			01NE21SS172		
	Matrix	SX			SX			SX			SX			SX			SX		
	Date Collected	8/24/01			8/24/01			8/24/01			8/24/01			8/24/01			8/24/01		
	Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg		
Analyte		**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
arsenic		3			4			5.9			4.3			6.1			11.5		

Sample ID	DY39G	DY39H	DY39I			
Field ID	01NE21SS173	01NE21SD113	01NE21SD114			
Matrix	SX	SX	SX			
Date Collected	8/24/01	8/24/01	8/24/01			
Units	mg/Kg	mg/Kg	mg/Kg			
Analyte	RESULT Q RC	RESULT Q RC	RESULT Q RC			
arsenic	4.5	12.1	14.7			

Total Metals

DATA SUMMARY TABLE

	Sample ID	DY41A			DY41B			DY41C			DY41D				
	Field ID	01NE29SD128			01NE29SD129			01NE29SD127			01NE29SD126				
	Matrix	SX			SX			SX			SX				
	Date Collected	8/21/01			8/21/01			8/21/01			8/21/01				
	Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg				
Analyte		**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**		
arsenic		4.8			2.8			5.7			3.3				

Sample ID	DY42A			DY42B			DY42C			DY42D			DY42E			
Field ID	01NE06SD116			01NE06SD117			01NE07SS126			01NE07SD105			01NE07SD104			
Matrix	SX			SX			SX			SX			SX			
Date Collected	8/18/01			8/18/01			8/19/01			8/19/01			8/19/01			
Units	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	
arsenic	1.6			4.1			17.3			4.1			3.3			

General Chemistry

DATA SUMMARY TABLE

Sample ID	DN04A			DN04B			DN04C			DN04D			DN04E			DN04F		
Field ID	01NE28SD117			01NE28SD118			01NE28SD119			01NE28SD120			01NE28SD121			01NE28SD122		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/18/01			8/18/01		
Units	PERCENT			PERCENT			PERCENT			PERCENT			PERCENT			PERCENT		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
total organic carbon	4.5			3.5			32			28			34			49		

Sample ID	DN04G	DN04H	DN04I	DN04J	DN04K	DN04L
Field ID	01NE28SD123	01NE28SD124	01NE28SD125	01NE28SD126	01NE28SD127	01NE28SD128
Matrix	SX	SX	SX	SX	SX	SX
Date Collected	8/18/01	8/18/01	8/18/01	8/18/01	8/18/01	8/18/01
Units	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Analyte	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC
total organic carbon	44	14	7.4	31	31	19

General Chemistry

DATA SUMMARY TABLE

Sample ID	DN04N			DN04O			DN04P			DN04Q			DN04R			DN04S		
Field ID	01NE28SD129			01NE28SD130			01NE28SD131			01NE28SD132			01NE28SD133			01NE28SD134		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/18/01			8/18/01			8/18/01			8/18/01			8/18/01			8/18/01		
Units	PERCENT			PERCENT			PERCENT			PERCENT			PERCENT			PERCENT		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
total organic carbon	41			26			7.6			16			21			18		

Sample ID	DN05A	DN05B	DN05C	DN05D	DN05E	DN05F
Field ID	01NE28SD153	01NE28SD154	01NE28SD155	01NE28SD156	01NE28SD157	01NE28SD158
Matrix	SX	SX	SX	SX	SX	SX
Date Collected	8/19/01	8/19/01	8/19/01	8/19/01	8/19/01	8/19/01
Units	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Analyte	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC
total organic carbon	14	12	10	7.3	4	12

General Chemistry

DATA SUMMARY TABLE

Sample ID	DN06A	DN06B	DN06C	DN06D	DN06E	DN06F
Field ID	01NE28SD135	01NE28SD136	01NE28SD137	01NE28SD138	01NE28SD139	01NE28SD140
Matrix	SX	SX	SX	SX	SX	SX
Date Collected	8/19/01	8/19/01	8/19/01	8/19/01	8/19/01	8/19/01
Units	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Analyte	**RESULT Q RC**	**RESULT Q RC**	**RESULT Q RC**	**RESULT Q RC**	**RESULT Q RC**	**RESULT Q RC**
total organic carbon	0.55	9.1	7.5	6.9	10	11

Sample ID	DN06H	DN06I	DN06J	DN06K	DN06L	DN06M
Field ID	01NE28SD141	01NE28SD142	01NE28SD143	01NE28SD144	01NE28SD145	01NE28SD146
Matrix	SX	SX	SX	SX	SX	SX
Date Collected	8/19/01	8/19/01	8/19/01	8/19/01	8/19/01	8/19/01
Units	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Analyte	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC
total organic carbon	12	13	11	12	12	15

General Chemistry

DATA SUMMARY TABLE

Sample ID	DN06N	DN06O	DN06P	DN06Q	DN06R	DN06T
Field ID	01NE28SD147	01NE28SD148	01NE28SD149	01NE28SD150	01NE28SD151	01NE28SD152
Matrix	SX	SX	SX	SX	SX	SX
Date Collected	8/19/01	8/19/01	8/19/01	8/19/01	8/19/01	8/19/01
Units	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Analyte	**RESULT Q RC**	**RESULT Q RC**	**RESULT Q RC**	**RESULT Q RC**	**RESULT Q RC**	**RESULT Q RC**
total organic carbon	4.6	15	3.8	3.2	4.3	3.6

Sample ID	DN07A	DN07C	DN07D	DN07F	DN07G	DN07H
Field ID	01NE06TP101	01NE06TP102	01NE28SD111	01NE28SD112	01NE28SD113	01NE28SD114
Matrix	SX	SX	SX	SX	SX	SX
Date Collected	8/18/01	8/18/01	8/18/01	8/18/01	8/18/01	8/18/01
Units	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Analyte	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC
total organic carbon	2	2.6	21	7	30	37

General Chemistry

DATA SUMMARY TABLE

Sample ID	DN07I		DN07J				
Field ID	01NE28SD115		01NE28SD116				
Matrix	SX		SX				
Date Collected	8/18/01		8/18/01				
Units	PERCENT		PERCENT				
Analyte	**RESULT**	**Q RC**	**RESULT**	**Q RC**			
total organic carbon	35		3.9				

Ge. , Chemistry

DATA SUM .Y TABLE

Sample ID	DN38A			DN38C			DN38D			DN38E			DN38F			DN38G		
Field ID	01NE29SD114			01NE29SD115			01NE29SD116			01NE29SD117			01NE29SD118			01NE29SD119		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/21/01			8/21/01			8/21/01			8/21/01			8/21/01			8/21/01		
Units	PERCENT			PERCENT			PERCENT			PERCENT			PERCENT			PERCENT		
Analyte	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC	RESULT	Q	RC
total organic carbon	3.2			0.74			4.7			0.32			0.58			0.5		

General Chemistry

DATA SUMMARY TABLE

Sample ID	DN38H	DN38I	DN38J	DN38K	DN38L	DN38M
Field ID	01NE28SD165	01NE28SD166	01NE28SD167	01NE28SD168	01NE28SD169	01NE28SD170
Matrix	SX	SX	SX	SX	SX	SX
Date Collected	8/20/01	8/20/01	8/20/01	8/20/01	8/20/01	8/20/01
Units	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Analyte	**RESULT Q RC**	**RESULT Q RC**	**RESULT Q RC**	**RESULT Q RC**	**RESULT Q RC**	**RESULT Q RC**
total organic carbon	2.6	1.3	3	3.1	11	9.1

Sample ID	DN39A	DN39B	DN39C	DN39D	DN39E	DN39G
Field ID	01NE28SD159	01NE28SD160	01NE28SD161	01NE28SD163	01NE28SD164	01NE28SD171
Matrix	SX	SX	SX	SX	SX	SX
Date Collected	8/20/01	8/20/01	8/20/01	8/20/01	8/20/01	8/20/01
Units	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Analyte	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC
total organic carbon	5.3	4.5	3.9	4.1	4	24

General Chemistry

DATA SUMMARY TABLE

Sample ID	DN39H			DN39I			DN39J			DN39K			DN39L			DN39O		
Field ID	01NE28SD172			01NE28SD173			01NE28SD174			01NE28SD175			01NE28SD176			01NE28SD177		
Matrix	SX			SX			SX			SX			SX			SX		
Date Collected	8/20/01			8/20/01			8/20/01			8/20/01			8/20/01			8/20/01		
Units	PERCENT			PERCENT			PERCENT			PERCENT			PERCENT			PERCENT		
Analyte	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**	**RESULT**	**Q**	**RC**
total organic carbon	25			16			10			22			43			21		

Gen Chemistry

DATA SUMI TABLE

Sample ID	DN39P	DN39Q	DN39R	DN39S	DN39T	
Field ID	01NE28SD178	01NE28SD179	01NE28SD180	01NE28SD181	01NE28SD182	
Matrix	SX	SX	SX	SX	SX	
Date Collected	8/20/01	8/20/01	8/20/01	8/20/01	8/20/01	
Units	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Analyte	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	RESULT Q RC	
total organic carbon	9.7	4.5	3.4	3.4	11	

General Chemistry

DATA SUMMARY TABLE

Sample ID	DN40A	DN40B	DN40C	DN40G	DN40H	DN40I
Field ID	01NE29SD123	01NE29SD124	01NE29SD125	01NE29SD120	01NE29SD121	01NE29SD122
Matrix	SX	SX	SX	SX	SX	SX
Date Collected	8/21/01	8/21/01	8/21/01	8/21/01	8/21/01	8/21/01
Units	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Analyte	**RESULT Q RC**	**RESULT Q RC**	**RESULT Q RC**	**RESULT Q RC**	**RESULT Q RC**	**RESULT Q RC**
total organic carbon	8.9	5.2	3.9	0.27	0.19	1.1

Sample ID	DN55I		DN55J		DN55K		DN55L			
Field ID	01NE34SS107		01NE34SS108		01NE34SS109		01NE34SS110			
Matrix	SX		SX		SX		SX			
Date Collected	8/23/01		8/23/01		8/23/01		8/23/01			
Units	PERCENT		PERCENT		PERCENT		PERCENT			
Analyte	RESULT	Q RC	RESULT	Q RC	RESULT	Q RC	RESULT	Q RC		
total organic carbon	1.7		5.7		6.4		7.2			

DATA SUMMARY TABLE

Sample ID	DN68F					
Field ID	01NE09SD114					
Matrix	SX					
Date Collected	8/24/01					
Units	PERCENT					
Analyte	**RESULT Q RC**					
total organic carbon	18					

Sample ID	DN76P					
Field ID	01NE09SD113					
Matrix	SX					
Date Collected	8/24/01					
Units	PERCENT					
Analyte	RESULT Q RC					
total organic carbon	28					

Appendix D

Data Quality Summary

by Analysis Type

Data Quality Summary

BTEX

		Data Points	% of Data	% of Qualified Data	Bias (low/none/high)
TOTAL DATA POINTS:		**265**	-	-	-
TOTAL QUALIFIED DATA POINTS:		**74**	27.9%	-	-
TOTAL REJECTED DATA POINTS:		**0**	0.0%	-	-
Qualified/Rejected as a result of:					
k	- The analyte was found in the field blank	44	16.6%	59.5%	H
b	- Surrogate spike recovery outside control limits	15	5.7%	20.3%	L
t	- Sample temperature outside acceptance criteria	10	3.8%	13.5%	L
p	- Sample was not properly collected, preserved or shippe	5	1.9%	6.8%	L

Data Quality Summary

Gasoline Range Organics

		Data Points	% of Data	% of Qualified Data	Bias (low/none/high)
TOTAL DATA POINTS:		**85**	-	-	-
TOTAL QUALIFIED DATA POINTS:		**6**	7.1%	-	-
TOTAL REJECTED DATA POINTS:		**0**	0.0%	-	-
Qualified/Rejected as a result of:					
t	- Sample temperature outside acceptance criteria	2	2.4%	33.3%	L
a	- The analyte was found in the method blank	2	2.4%	33.3%	H
e	- Holding time exceeded	1	1.2%	16.7%	L
b	- Surrogate spike recovery outside control limits	1	1.2%	16.7%	L

Data Quality Summary

Diesel / Residual Range Organics

		Data Points	% of Data	% of Qualified Data	Bias (low/none/high)
TOTAL DATA POINTS:		**585**	-	-	-
TOTAL QUALIFIED DATA POINTS:		**131**	22.4%	-	-
TOTAL REJECTED DATA POINTS:		**0**	0.0%	-	-
Qualified/Rejected as a result of:					
e	- Holding time exceeded	56	9.6%	42.7%	L
b	- Surrogate spike recovery outside control limits	33	5.6%	25.2%	L
o	- Result reported exceeds calibration range	10	1.7%	7.6%	N
t	- Sample temperature outside acceptance criteria	6	1.0%	4.6%	L
f	- Laboratory duplicate failed precision criteria	5	0.9%	3.8%	N
n	- Field duplicate precision problem	4	0.7%	3.1%	N
m	- Numerical value is between the MDL and RL	4	0.7%	3.1%	N
b,e	- Multiple Reasons	4	0.7%	3.1%	L
a	- The analyte was found in the method blank	3	0.5%	2.3%	H
c,f	- Multiple Reasons	2	0.3%	1.5%	N
m,n	- Multiple Reasons	1	0.2%	0.8%	N
c,f,n	- Multiple Reasons	1	0.2%	0.8%	N
c,f	- Multiple Reasons	1	0.2%	0.8%	H
b,o	- Multiple Reasons	1	0.2%	0.8%	L

Data Quality Summary

Organochlorine Pesticides / PCBs

		Data Points	% of Data	% of Qualified Data	Bias (low/none/high)
TOTAL DATA POINTS:		**2393**	-	-	-
TOTAL QUALIFIED DATA POINTS:		**458**	19.1%	-	-
TOTAL REJECTED DATA POINTS:		**0**	0.0%	-	-
Qualified/Rejected as a result of:					
b	- Surrogate spike recovery outside control limits	339	14.2%	74.0%	L
b,c	- Multiple Reasons	1	0.0%	0.2%	H
b,o	- Multiple Reasons	2	0.1%	0.4%	L
e	- Holding time exceeded	112	4.7%	24.5%	L
o	- Result reported exceeds calibration range	4	0.2%	0.9%	N

Data Quality Summary

Polynuclear Aromatic Hydrocarbons

		Data Points	% of Data	% of Qualified Data	Bias (low/none/high)
TOTAL DATA POINTS:		**3564**	-	-	-
TOTAL QUALIFIED DATA POINTS:		**609**	17.1%	-	-
TOTAL REJECTED DATA POINTS:		**0**	0.0%	-	-
Qualified/Rejected as a result of:					
b	- Surrogate spike recovery outside control limits	214	6.0%	35.1%	L
b,e	- Multiple Reasons	18	0.5%	3.0%	L
b,n	- Multiple Reasons	2	0.1%	0.3%	L
c	- MS/MSD recovery outside control limits	1	0.0%	0.2%	H
c,f	- Multiple Reasons	2	0.1%	0.3%	N
d	- Laboratory Control Sample (LCS) outside control limits	1	0.0%	0.2%	H
e	- Holding time exceeded	215	6.0%	35.3%	L
e,b	- Multiple Reasons	18	0.5%	3.0%	L
e,o	- Multiple Reasons	1	0.0%	0.2%	L
f	- Laboratory duplicate failed precision criteria	2	0.1%	0.3%	N
m,n	- Multiple Reasons	1	0.0%	0.2%	N
n	- Field duplicate precision problem	98	2.7%	16.1%	N
n,o	- Multiple Reasons	3	0.1%	0.5%	N
o	- Result reported exceeds calibration range	33	0.9%	5.4%	N

Data Quality Summary

Semivolatile Organics

	Data Points	% of Data	% of Qualified Data	Bias (low/none/high)
TOTAL DATA POINTS:	**263**	-	-	-
TOTAL QUALIFIED DATA POINTS:	**3**	1.1%	-	-
TOTAL REJECTED DATA POINTS:	**0**	0.0%	-	-
Qualified/Rejected as a result of:				
a - The analyte was found in the method blank	3	1.1%	100.0%	H

Data Quality Summary

Volatile Organics

		Data Points	% of Data	% of Qualified Data	Bias (low/none/high)
TOTAL DATA POINTS:		**3231**	-	-	-
TOTAL QUALIFIED DATA POINTS:		**375**	11.6%	-	-
TOTAL REJECTED DATA POINTS:		**0**	0.0%	-	-
Qualified/Rejected as a result of:					
p	- Sample was not properly collected, preserved or shipped	345	10.7%	92.0%	L
n	- Field duplicate precision problem	12	0.4%	3.2%	N
a	- The analyte was found in the method blank	7	0.2%	1.9%	H
m	- Numerical value is between the MDL and RL	4	0.1%	1.1%	N
m,p	- Multiple Reasons	3	0.1%	0.8%	N
m,n	- Multiple Reasons	2	0.1%	0.5%	N
k	- The analyte was found in the field blank	1	0.0%	0.3%	H
c,f,n	- Multiple Reasons	1	0.0%	0.3%	N

Data Quality Summary

Total Metals

		Data Points	% of Data	% of Qualified Data	Bias (low/none/high)
TOTAL DATA POINTS:		**1947**	-	-	
TOTAL QUALIFIED DATA POINTS:		**204**	10.5%	-	
TOTAL REJECTED DATA POINTS:		**4**	0.2%	-	
Qualified/Rejected as a result of:					
t	- Sample temperature outside acceptance criteria	138	7.1%	66.3%	L
m	- Numerical value is between the MDL and RL	30	1.5%	14.4%	N
c	- MS/MSD recovery outside control limits	13	0.7%	6.3%	L
n	- Field duplicate precision problem	11	0.6%	5.3%	N
f	- Laboratory duplicate failed precision criteria	9	0.5%	4.3%	N
f,n	- Multiple Reasons	1	0.1%	0.5%	N
c	- MS/MSD recovery outside control limits	1	0.1%	0.5%	H
a	- The analyte was found in the method blank	1	0.1%	0.5%	H

Data Quality Summary

Total Organic Carbon

	Data Points	% of Data	% of Qualified Data	Bias (low/none/high)
TOTAL DATA POINTS:	**92**	-	-	
TOTAL QUALIFIED DATA POINTS:	**0**	0.0%	-	
TOTAL REJECTED DATA POINTS:	**0**	0.0%	-	

Qualified/Rejected as a result of:

No Qualified Data

Appendix E

Sample Table
Qualified Data Tables

by Data Quality Indicator and Analysis Type

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

The following samples were collected and analyzed by all applicable methods:

Laboratory: **ARI** **(Primary Laboratory)**

SDG: **DK21**
Date Rec'd: **7/25/01**

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
BTEX									
DK21A	01NE35GW102	QC Dup of 01NE35GW101	7/24/01	WX	2	NR*	none		
DK21C	01NE35TB101	Trip Blank	7/24/01	WX	2	NR*	none		
Diesel / Residual Range Organics									
DK21A	01NE35GW102	QC Dup of 01NE35GW101	7/24/01	WX	2.0	NR*	none		
DK21ARE	01NE35GW102	QC Dup of 01NE35GW101	7/24/01	WX	2.0	NR*	none		
Dissolved Metals									
DK21B	01NE35GW102	QC Dup of 01NE35GW101	7/24/01	WX	2	NR*	none		
Gasoline Range Organics									
DK21A	01NE35GW102	QC Dup of 01NE35GW101	7/24/01	WX	2	NR*	none		
DK21C	01NE35TB101	Trip Blank	7/24/01	WX	2	NR*	none		
Total Metals									
DK21A	01NE35GW102	QC Dup of 01NE35GW101	7/24/01	WX	2	NR*	none		

SDG: **DK48**
Date Rec'd: **7/27/01**

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
BTEX									
DK48A	01NE35GW101	Primary Sample	7/25/01	WX	2.0	NR*	none		
DK48B	01NE35GW103		7/25/01	WX	2.0	NR*	none		
DK48C	01NE35GW104		7/26/01	WX	2.0	NR*	none		
DK48D	01NE35GW201	QC Dup of 01NE35GW101	7/25/01	WX	2.0	NR*	none		
DK48E	01NE35TB102	Trip Blank	7/25/01	WX	2.0	NR*	none		
Diesel / Residual Range Organics									
DK48A	01NE35GW101	Primary Sample	7/25/01	WX	2.0	NR*	none		
DK48ARE	01NE35GW101	Primary Sample	7/25/01	WX	2.0	NR*	none		
DK48B	01NE35GW103		7/25/01	WX	2.0	NR*	none		
DK48BRE	01NE35GW103		7/25/01	WX	2.0	NR*	none		
DK48C	01NE35GW104		7/26/01	WX	2.0	NR*	none		
DK48CRE	01NE35GW104		7/26/01	WX	2.0	NR*	none		
DK48D	01NE35GW201	QC Dup of 01NE35GW101	7/25/01	WX	2.0	NR*	none		
DK48DRE	01NE35GW201		7/25/01	WX	2.0	NR*	none		
Dissolved Metals									
DK48F	01NE35GW101	Primary Sample	7/25/01	WX	2.0	NR*	none		
DK48G	01NE35GW103		7/25/01	WX	2.0	NR*	none		
DK48H	01NE35GW104		7/26/01	WX	2.0	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DK48
Date Rec'd: 7/27/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Gasoline Range Organics									
DK48A	01NE35GW101	Primary Sample	7/25/01	WX	2.0	NR*	none		
DK48B	01NE35GW103		7/25/01	WX	2.0	NR*	none		
DK48C	01NE35GW104		7/26/01	WX	2.0	NR*	none		
DK48D	01NE35GW201	QC Dup of 01NE35GW101	7/25/01	WX	2.0	NR*	none		
DK48E	01NE35TB102	Trip Blank	7/25/01	WX	2.0	NR*	none		
Total Metals									
DK48A	01NE35GW101	Primary Sample	7/25/01	WX	2.0	NR*	none		
DK48B	01NE35GW103		7/25/01	WX	2.0	NR*	none		
DK48C	01NE35GW104		7/26/01	WX	2.0	NR*	none		

SDG: DN03
Date Rec'd: 8/21/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Diesel / Residual Range Organics									
DN03A	01NE28SW115		8/19/01	WX	0.5	NR*	none		
DN03B	01NE28SW211	QC Dup of 01NE28SW111	8/18/01	WX	2.5	NR*	none		
DN03C	01NE28SW113		8/18/01	WX	2.5	NR*	none		
DN03D	01NE28SW111	Primary Sample	8/18/01	WX	1.5	NR*	none		
DN03E	01NE28SW112		8/18/01	WX	1.5	NR*	none		
DN03F	01NE28SW114		8/19/01	WX	1.5	NR*	none		
DN03G	01NE07SW104		8/19/01	WX	2.0	NR*	none		
DN03J	01NE07SW105		8/19/01	WX	1.0	NR*	none		
Gasoline Range Organics									
DN03H	01NE07SW104		8/19/01	WX	2.0	NR*	none		
DN03I	01NE00TB102	Trip Blank	8/19/01	WX	1.0	NR*	none		
DN03J	01NE07SW105		8/19/01	WX	1.0	NR*	none		
Polychlorinated Biphenyls									
DN03A	01NE28SW115		8/19/01	WX	0.5	NR*	none		
DN03B	01NE28SW211	QC Dup of 01NE28SW111	8/18/01	WX	2.5	NR*	none		
DN03C	01NE28SW113		8/18/01	WX	2.5	NR*	none		
DN03D	01NE28SW111	Primary Sample	8/18/01	WX	1.5	NR*	none		
DN03E	01NE28SW112		8/18/01	WX	1.5	NR*	none		
DN03F	01NE28SW114		8/19/01	WX	1.5	NR*	none		
DN03G	01NE07SW104		8/19/01	WX	2.0	NR*	none		
DN03J	01NE07SW105		8/19/01	WX	1.0	NR*	none		
Polynuclear Aromatic Hydrocarbons									
DN03G	01NE07SW104		8/19/01	WX	2.0	NR*	none		
DN03J	01NE07SW105		8/19/01	WX	1.0	NR*	none		
Total Metals									
DN03G	01NE07SW104		8/19/01	WX	2.0	NR*	none		
DN03J	01NE07SW105		8/19/01	WX	1.0	NR*	J/UJ	L	t

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN03
Date Rec'd: 8/21/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Volatile Organics									
DN03H	01NE07SW104		8/19/01	WX	2.0	NR*	none		
DN03I	01NE00TB102	Trip Blank	8/19/01	WX	1.0	NR*	none		
DN03J	01NE07SW105		8/19/01	WX	1.0	NR*	none		

SDG: DN04
Date Rec'd: 8/21/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Diesel / Residual Range Organics									
DN04A	01NE28SD117		8/18/01	SX	2.0	NR*	none		
DN04B	01NE28SD118		8/18/01	SX	2.0	NR*	none		
DN04C	01NE28SD119		8/18/01	SX	2.0	NR*	none		
DN04D	01NE28SD120		8/18/01	SX	2.0	NR*	none		
DN04D-RE	01NE28SD120		8/18/01	SX	2.0	NR*	none		
DN04E	01NE28SD121		8/18/01	SX	2.0	NR*	none		
DN04F	01NE28SD122		8/18/01	SX	2.0	NR*	none		
DN04F-RE	01NE28SD122		8/18/01	SX	2.0	NR*	none		
DN04G	01NE28SD123		8/18/01	SX	1.0	NR*	none		
DN04G-RE	01NE28SD123		8/18/01	SX	1.0	NR*	none		
DN04H	01NE28SD124		8/18/01	SX	1.0	NR*	none		
DN04I	01NE28SD125	Primary Sample	8/18/01	SX	1.0	NR*	none		
DN04J	01NE28SD126		8/18/01	SX	1.0	NR*	none		
DN04K	01NE28SD127		8/18/01	SX	1.0	NR*	none		
DN04L	01NE28SD128		8/18/01	SX	1.0	NR*	none		
DN04M	01NE28SD225	QC Dup of 01NE28SD125	8/18/01	SX	1.0	NR*	none		
DN04N	01NE28SD129		8/18/01	SX	2.0	NR*	none		
DN04O	01NE28SD130		8/18/01	SX	2.0	NR*	none		
DN04P	01NE28SD131		8/18/01	SX	2.0	NR*	none		
DN04Q	01NE28SD132		8/18/01	SX	2.0	NR*	none		
DN04R	01NE28SD133		8/18/01	SX	2.0	NR*	none		
DN04S	01NE28SD134		8/18/01	SX	2.0	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN04

Date Rec'd: 8/21/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
General Chemistry									
DN04A	01NE28SD117		8/18/01	SX	2.0	NR*	none		
DN04B	01NE28SD118		8/18/01	SX	2.0	NR*	none		
DN04C	01NE28SD119		8/18/01	SX	2.0	NR*	none		
DN04D	01NE28SD120		8/18/01	SX	2.0	NR*	none		
DN04E	01NE28SD121		8/18/01	SX	2.0	NR*	none		
DN04F	01NE28SD122		8/18/01	SX	2.0	NR*	none		
DN04G	01NE28SD123		8/18/01	SX	1.0	NR*	none		
DN04H	01NE28SD124		8/18/01	SX	1.0	NR*	none		
DN04I	01NE28SD125	Primary Sample	8/18/01	SX	1.0	NR*	none		
DN04J	01NE28SD126		8/18/01	SX	1.0	NR*	none		
DN04K	01NE28SD127		8/18/01	SX	1.0	NR*	none		
DN04L	01NE28SD128		8/18/01	SX	1.0	NR*	none		
DN04N	01NE28SD129		8/18/01	SX	2.0	NR*	none		
DN04O	01NE28SD130		8/18/01	SX	2.0	NR*	none		
DN04P	01NE28SD131		8/18/01	SX	2.0	NR*	none		
DN04Q	01NE28SD132		8/18/01	SX	2.0	NR*	none		
DN04R	01NE28SD133		8/18/01	SX	2.0	NR*	none		
DN04S	01NE28SD134		8/18/01	SX	2.0	NR*	none		
Polychlorinated Biphenyls									
DN04A	01NE28SD117		8/18/01	SX	2.0	NR*	none		
DN04B	01NE28SD118		8/18/01	SX	2.0	NR*	none		
DN04C	01NE28SD119		8/18/01	SX	2.0	NR*	none		
DN04D	01NE28SD120		8/18/01	SX	2.0	NR*	none		
DN04E	01NE28SD121		8/18/01	SX	2.0	NR*	none		
DN04F	01NE28SD122		8/18/01	SX	2.0	NR*	none		
DN04G	01NE28SD123		8/18/01	SX	1.0	NR*	none		
DN04H	01NE28SD124		8/18/01	SX	1.0	NR*	none		
DN04I	01NE28SD125	Primary Sample	8/18/01	SX	1.0	NR*	none		
DN04J	01NE28SD126		8/18/01	SX	1.0	NR*	none		
DN04K	01NE28SD127		8/18/01	SX	1.0	NR*	none		
DN04L	01NE28SD128		8/18/01	SX	1.0	NR*	none		
DN04M	01NE28SD225	QC Dup of 01NE28SD125	8/18/01	SX	1.0	NR*	none		
DN04N	01NE28SD129		8/18/01	SX	2.0	NR*	none		
DN04O	01NE28SD130		8/18/01	SX	2.0	NR*	none		
DN04P	01NE28SD131		8/18/01	SX	2.0	NR*	none		
DN04P-RE	01NE28SD131		8/18/01	SX	2.0	NR*	none		
DN04Q	01NE28SD132		8/18/01	SX	2.0	NR*	none		
DN04R	01NE28SD133		8/18/01	SX	2.0	NR*	none		
DN04S	01NE28SD134		8/18/01	SX	2.0	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN04

Date Rec'd: 8/21/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Polynuclear Aromatic Hydrocarbons									
DN04A	01NE28SD117		8/18/01	SX	2.0	NR*	none		
DN04B	01NE28SD118		8/18/01	SX	2.0	NR*	none		
DN04C	01NE28SD119		8/18/01	SX	2.0	NR*	none		
DN04D	01NE28SD120		8/18/01	SX	2.0	NR*	none		
DN04D-DL	01NE28SD120		8/18/01	SX	2.0	NR*	none		
DN04E	01NE28SD121		8/18/01	SX	2.0	NR*	none		
DN04F	01NE28SD122		8/18/01	SX	2.0	NR*	none		
DN04G	01NE28SD123		8/18/01	SX	1.0	NR*	none		
DN04G-DL	01NE28SD123		8/18/01	SX	1.0	NR*	none		
DN04H	01NE28SD124		8/18/01	SX	1.0	NR*	none		
DN04H-DL	01NE28SD124		8/18/01	SX	1.0	NR*	none		
DN04I	01NE28SD125	Primary Sample	8/18/01	SX	1.0	NR*	none		
DN04I-DL	01NE28SD125	Primary Sample	8/18/01	SX	1.0	NR*	none		
DN04J	01NE28SD126		8/18/01	SX	1.0	NR*	none		
DN04K	01NE28SD127		8/18/01	SX	1.0	NR*	none		
DN04K-DL	01NE28SD127		8/18/01	SX	1.0	NR*	none		
DN04L	01NE28SD128		8/18/01	SX	1.0	NR*	none		
DN04M	01NE28SD225	QC Dup of 01NE28SD125	8/18/01	SX	1.0	NR*	none		
DN04M-DL	01NE28SD225	QC Dup of 01NE28SD125	8/18/01	SX	1.0	NR*	none		
DN04N	01NE28SD129		8/18/01	SX	2.0	NR*	none		
DN04N-DL	01NE28SD129		8/18/01	SX	2.0	NR*	none		
DN04O	01NE28SD130		8/18/01	SX	2.0	NR*	none		
DN04P	01NE28SD131		8/18/01	SX	2.0	NR*	none		
DN04Q	01NE28SD132		8/18/01	SX	2.0	NR*	none		
DN04R	01NE28SD133		8/18/01	SX	2.0	NR*	none		
DN04S	01NE28SD134		8/18/01	SX	2.0	NR*	none		
DN04S-RE	01NE28SD134		8/18/01	SX	2.0	NR*	none		
DN04S-REDL	01NE28SD134		8/18/01	SX	2.0	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN04
Date Rec'd: 8/21/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Total Metals									
DN04A	01NE28SD117		8/18/01	SX	2.0	NR*	none		
DN04B	01NE28SD118		8/18/01	SX	2.0	NR*	none		
DN04C	01NE28SD119		8/18/01	SX	2.0	NR*	none		
DN04D	01NE28SD120		8/18/01	SX	2.0	NR*	none		
DN04E	01NE28SD121		8/18/01	SX	2.0	NR*	none		
DN04F	01NE28SD122		8/18/01	SX	2.0	NR*	none		
DN04G	01NE28SD123		8/18/01	SX	1.0	NR*	none		
DN04H	01NE28SD124		8/18/01	SX	1.0	NR*	none		
DN04I	01NE28SD125	Primary Sample	8/18/01	SX	1.0	NR*	none		
DN04J	01NE28SD126		8/18/01	SX	1.0	NR*	none		
DN04K	01NE28SD127		8/18/01	SX	1.0	NR*	none		
DN04L	01NE28SD128		8/18/01	SX	1.0	NR*	none		
DN04M	01NE28SD225	QC Dup of 01NE28SD125	8/18/01	SX	1.0	NR*	none		
DN04N	01NE28SD129		8/18/01	SX	2.0	NR*	none		
DN04O	01NE28SD130		8/18/01	SX	2.0	NR*	none		
DN04P	01NE28SD131		8/18/01	SX	2.0	NR*	none		
DN04Q	01NE28SD132		8/18/01	SX	2.0	NR*	none		
DN04R	01NE28SD133		8/18/01	SX	2.0	NR*	none		
DN04S	01NE28SD134		8/18/01	SX	2.0	NR*	none		

SDG: DN05
Date Rec'd: 8/21/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Diesel / Residual Range Organics									
DN05A	01NE28SD153	Primary Sample	8/19/01	SX	5.5	NR*	none		
DN05B	01NE28SD154		8/19/01	SX	5.5	NR*	none		
DN05C	01NE28SD155		8/19/01	SX	5.5	NR*	none		
DN05D	01NE28SD156		8/19/01	SX	5.5	NR*	none		
DN05E	01NE28SD157	Primary Sample	8/19/01	SX	5.5	NR*	none		
DN05F	01NE28SD158		8/19/01	SX	5.5	NR*	none		
DN05G	01NE28SD253	QC Dup of 01NE28SD153	8/19/01	SX	5.5	NR*	none		
DN05H	01NE28SD257	QC Dup of 01NE28SD157	8/19/01	SX	5.5	NR*	none		
General Chemistry									
DN05A	01NE28SD153	Primary Sample	8/19/01	SX	5.5	NR*	none		
DN05B	01NE28SD154		8/19/01	SX	5.5	NR*	none		
DN05C	01NE28SD155		8/19/01	SX	5.5	NR*	none		
DN05D	01NE28SD156		8/19/01	SX	5.5	NR*	none		
DN05E	01NE28SD157	Primary Sample	8/19/01	SX	5.5	NR*	none		
DN05F	01NE28SD158		8/19/01	SX	5.5	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN05

Date Rec'd: 8/21/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Polychlorinated Biphenyls									
DN05A	01NE28SD153	Primary Sample	8/19/01	SX	5.5	NR*	none		
DN05B	01NE28SD154		8/19/01	SX	5.5	NR*	none		
DN05C	01NE28SD155		8/19/01	SX	5.5	NR*	none		
DN05D	01NE28SD156		8/19/01	SX	5.5	NR*	none		
DN05E	01NE28SD157	Primary Sample	8/19/01	SX	5.5	NR*	none		
DN05F	01NE28SD158		8/19/01	SX	5.5	NR*	none		
DN05G	01NE28SD253	QC Dup of 01NE28SD153	8/19/01	SX	5.5	NR*	none		
DN05H	01NE28SD257	QC Dup of 01NE28SD157	8/19/01	SX	5.5	NR*	none		
Polynuclear Aromatic Hydrocarbons									
DN05A	01NE28SD153	Primary Sample	8/19/01	SX	5.5	NR*	none		
DN05B	01NE28SD154		8/19/01	SX	5.5	NR*	none		
DN05B-DL	01NE28SD154		8/19/01	SX	5.5	NR*	none		
DN05C	01NE28SD155		8/19/01	SX	5.5	NR*	none		
DN05C-DL	01NE28SD155		8/19/01	SX	5.5	NR*	none		
DN05D	01NE28SD156		8/19/01	SX	5.5	NR*	none		
DN05D-DL	01NE28SD156		8/19/01	SX	5.5	NR*	none		
DN05E	01NE28SD157	Primary Sample	8/19/01	SX	5.5	NR*	none		
DN05F	01NE28SD158		8/19/01	SX	5.5	NR*	none		
DN05F-DL	01NE28SD158		8/19/01	SX	5.5	NR*	none		
DN05G	01NE28SD253	QC Dup of 01NE28SD153	8/19/01	SX	5.5	NR*	none		
DN05H	01NE28SD257	QC Dup of 01NE28SD157	8/19/01	SX	5.5	NR*	none		
Total Metals									
DN05A	01NE28SD153	Primary Sample	8/19/01	SX	5.5	NR*	none		
DN05B	01NE28SD154		8/19/01	SX	5.5	NR*	none		
DN05C	01NE28SD155		8/19/01	SX	5.5	NR*	none		
DN05D	01NE28SD156		8/19/01	SX	5.5	NR*	none		
DN05E	01NE28SD157	Primary Sample	8/19/01	SX	5.5	NR*	none		
DN05F	01NE28SD158		8/19/01	SX	5.5	NR*	none		
DN05G	01NE28SD253	QC Dup of 01NE28SD153	8/19/01	SX	5.5	NR*	none		
DN05H	01NE28SD257	QC Dup of 01NE28SD157	8/19/01	SX	5.5	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN06

Date Rec'd: 8/21/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Diesel / Residual Range Organics									
DN06A	01NE28SD135		8/19/01	SX	3.5	NR*	none		
DN06B	01NE28SD136		8/19/01	SX	3.5	NR*	none		
DN06C	01NE28SD137		8/19/01	SX	3.5	NR*	none		
DN06D	01NE28SD138		8/19/01	SX	3.5	NR*	none		
DN06E	01NE28SD139	Primary Sample	8/19/01	SX	3.5	NR*	none		
DN06F	01NE28SD140		8/19/01	SX	3.5	NR*	none		
DN06G	01NE28SD239	QC Dup of 01NE28SD139	8/19/01	SX	3.5	NR*	none		
DN06H	01NE28SD141		8/19/01	SX	1.5	NR*	none		
DN06I	01NE28SD142		8/19/01	SX	1.5	NR*	none		
DN06J	01NE28SD143		8/19/01	SX	1.5	NR*	none		
DN06K	01NE28SD144		8/19/01	SX	1.5	NR*	none		
DN06L	01NE28SD145		8/19/01	SX	1.5	NR*	none		
DN06M	01NE28SD146		8/19/01	SX	1.5	NR*	none		
DN06N	01NE28SD147		8/19/01	SX	5.0	NR*	none		
DN06O	01NE28SD148		8/19/01	SX	5.0	NR*	none		
DN06P	01NE28SD149		8/19/01	SX	5.0	NR*	none		
DN06Q	01NE28SD150		8/19/01	SX	5.0	NR*	none		
DN06R	01NE28SD151	Primary Sample	8/19/01	SX	5.0	NR*	none		
DN06S	01NE28SD251	QC Dup of 01NE28SD151	8/19/01	SX	5.0	NR*	none		
DN06T	01NE28SD152		8/19/01	SX	5.0	NR*	none		
General Chemistry									
DN06A	01NE28SD135		8/19/01	SX	3.5	NR*	none		
DN06B	01NE28SD136		8/19/01	SX	3.5	NR*	none		
DN06C	01NE28SD137		8/19/01	SX	3.5	NR*	none		
DN06D	01NE28SD138		8/19/01	SX	3.5	NR*	none		
DN06E	01NE28SD139	Primary Sample	8/19/01	SX	3.5	NR*	none		
DN06F	01NE28SD140		8/19/01	SX	3.5	NR*	none		
DN06H	01NE28SD141		8/19/01	SX	1.5	NR*	none		
DN06I	01NE28SD142		8/19/01	SX	1.5	NR*	none		
DN06J	01NE28SD143		8/19/01	SX	1.5	NR*	none		
DN06K	01NE28SD144		8/19/01	SX	1.5	NR*	none		
DN06L	01NE28SD145		8/19/01	SX	1.5	NR*	none		
DN06M	01NE28SD146		8/19/01	SX	1.5	NR*	none		
DN06N	01NE28SD147		8/19/01	SX	5.0	NR*	none		
DN06O	01NE28SD148		8/19/01	SX	5.0	NR*	none		
DN06P	01NE28SD149		8/19/01	SX	5.0	NR*	none		
DN06Q	01NE28SD150		8/19/01	SX	5.0	NR*	none		
DN06R	01NE28SD151	Primary Sample	8/19/01	SX	5.0	NR*	none		
DN06T	01NE28SD152		8/19/01	SX	5.0	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN06

Date Rec'd: 8/21/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Polychlorinated Biphenyls									
DN06A	01NE28SD135		8/19/01	SX	3.5	NR*	none		
DN06B	01NE28SD136		8/19/01	SX	3.5	NR*	none		
DN06C	01NE28SD137		8/19/01	SX	3.5	NR*	none		
DN06D	01NE28SD138		8/19/01	SX	3.5	NR*	none		
DN06E	01NE28SD139	Primary Sample	8/19/01	SX	3.5	NR*	none		
DN06F	01NE28SD140		8/19/01	SX	3.5	NR*	none		
DN06G	01NE28SD239	QC Dup of 01NE28SD139	8/19/01	SX	3.5	NR*	none		
DN06H	01NE28SD141		8/19/01	SX	1.5	NR*	none		
DN06I	01NE28SD142		8/19/01	SX	1.5	NR*	none		
DN06J	01NE28SD143		8/19/01	SX	1.5	NR*	none		
DN06K	01NE28SD144		8/19/01	SX	1.5	NR*	none		
DN06L	01NE28SD145		8/19/01	SX	1.5	NR*	none		
DN06M	01NE28SD146		8/19/01	SX	1.5	NR*	none		
DN06N	01NE28SD147		8/19/01	SX	5.0	NR*	none		
DN06O	01NE28SD148		8/19/01	SX	5.0	NR*	none		
DN06P	01NE28SD149		8/19/01	SX	5.0	NR*	none		
DN06Q	01NE28SD150		8/19/01	SX	5.0	NR*	none		
DN06R	01NE28SD151	Primary Sample	8/19/01	SX	5.0	NR*	none		
DN06S	01NE28SD251	QC Dup of 01NE28SD151	8/19/01	SX	5.0	NR*	none		
DN06T	01NE28SD152		8/19/01	SX	5.0	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN06

Date Rec'd: 8/21/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Polynuclear Aromatic Hydrocarbons									
DN06A	01NE28SD135		8/19/01	SX	3.5	NR*	none		
DN06B	01NE28SD136		8/19/01	SX	3.5	NR*	none		
DN06C	01NE28SD137		8/19/01	SX	3.5	NR*	none		
DN06C-DL	01NE28SD137		8/19/01	SX	3.5	NR*	none		
DN06D	01NE28SD138		8/19/01	SX	3.5	NR*	none		
DN06D-DL	01NE28SD138		8/19/01	SX	3.5	NR*	none		
DN06E	01NE28SD139	Primary Sample	8/19/01	SX	3.5	NR*	none		
DN06E-DL	01NE28SD139	Primary Sample	8/19/01	SX	3.5	NR*	none		
DN06F	01NE28SD140		8/19/01	SX	3.5	NR*	none		
DN06G	01NE28SD239	QC Dup of 01NE28SD139	8/19/01	SX	3.5	NR*	none		
DN06G-DL	01NE28SD239	QC Dup of 01NE28SD139	8/19/01	SX	3.5	NR*	none		
DN06H	01NE28SD141		8/19/01	SX	1.5	NR*	none		
DN06H-DL	01NE28SD141		8/19/01	SX	1.5	NR*	none		
DN06H-RE	01NE28SD141		8/19/01	SX	1.5	NR*	none		
DN06I	01NE28SD142		8/19/01	SX	1.5	NR*	none		
DN06I-DL	01NE28SD142		8/19/01	SX	1.5	NR*	none		
DN06J	01NE28SD143		8/19/01	SX	1.5	NR*	none		
DN06J-DL	01NE28SD143		8/19/01	SX	1.5	NR*	none		
DN06K	01NE28SD144		8/19/01	SX	1.5	NR*	none		
DN06K-DL	01NE28SD144		8/19/01	SX	1.5	NR*	none		
DN06L	01NE28SD145		8/19/01	SX	1.5	NR*	none		
DN06L-DL	01NE28SD145		8/19/01	SX	1.5	NR*	none		
DN06L-RE	01NE28SD145		8/19/01	SX	1.5	NR*	none		
DN06M	01NE28SD146		8/19/01	SX	1.5	NR*	none		
DN06M-DL	01NE28SD146		8/19/01	SX	1.5	NR*	none		
DN06N	01NE28SD147		8/19/01	SX	5.0	NR*	none		
DN06O	01NE28SD148		8/19/01	SX	5.0	NR*	none		
DN06O-DL	01NE28SD148		8/19/01	SX	5.0	NR*	none		
DN06P	01NE28SD149		8/19/01	SX	5.0	NR*	none		
DN06Q	01NE28SD150		8/19/01	SX	5.0	NR*	none		
DN06Q-RE	01NE28SD150		8/19/01	SX	5.0	NR*	none		
DN06Q-REDL	01NE28SD150		8/19/01	SX	5.0	NR*	none		
DN06R	01NE28SD151	Primary Sample	8/19/01	SX	5.0	NR*	none		
DN06S	01NE28SD251	QC Dup of 01NE28SD151	8/19/01	SX	5.0	NR*	none		
DN06T	01NE28SD152		8/19/01	SX	5.0	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG:	DN06								
Date Rec'd:	8/21/01								
Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Total Metals									
DN06A	01NE28SD135		8/19/01	SX	3.5	NR*	none		
DN06B	01NE28SD136		8/19/01	SX	3.5	NR*	none		
DN06C	01NE28SD137		8/19/01	SX	3.5	NR*	none		
DN06D	01NE28SD138		8/19/01	SX	3.5	NR*	none		
DN06E	01NE28SD139	Primary Sample	8/19/01	SX	3.5	NR*	none		
DN06F	01NE28SD140		8/19/01	SX	3.5	NR*	none		
DN06G	01NE28SD239	QC Dup of 01NE28SD139	8/19/01	SX	3.5	NR*	none		
DN06H	01NE28SD141		8/19/01	SX	1.5	NR*	none		
DN06I	01NE28SD142		8/19/01	SX	1.5	NR*	none		
DN06J	01NE28SD143		8/19/01	SX	1.5	NR*	none		
DN06K	01NE28SD144		8/19/01	SX	1.5	NR*	none		
DN06L	01NE28SD145		8/19/01	SX	1.5	NR*	none		
DN06M	01NE28SD146		8/19/01	SX	1.5	NR*	none		
DN06N	01NE28SD147		8/19/01	SX	5.0	NR*	none		
DN06O	01NE28SD148		8/19/01	SX	5.0	NR*	none		
DN06P	01NE28SD149		8/19/01	SX	5.0	NR*	none		
DN06Q	01NE28SD150		8/19/01	SX	5.0	NR*	none		
DN06R	01NE28SD151	Primary Sample	8/19/01	SX	5.0	NR*	none		
DN06S	01NE28SD251	QC Dup of 01NE28SD151	8/19/01	SX	5.0	NR*	none		
DN06T	01NE28SD152		8/19/01	SX	5.0	NR*	none		

SDG:	DN07								
Date Rec'd:	8/21/01								
Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
BTEX									
DN07K	01NE06SD116		8/18/01	SX	1.0	NR*	none		
DN07L	01NE06SD117		8/18/01	SX	1.0	NR*	none		
DN07M	01NE00TB101	Trip Blank	8/18/01	SX	1.0	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN07

Date Rec'd: 8/21/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Diesel / Residual Range Organics									
DN07A	01NE06TP101	Primary Sample	8/18/01	SX	1.0	NR*	none		
DN07B	01NE06TP201	QC Dup of 01NE06TP101	8/18/01	SX	1.0	NR*	none		
DN07C	01NE06TP102		8/18/01	SX	1.0	NR*	none		
DN07D	01NE28SD111	Primary Sample	8/18/01	SX	1.0	NR*	none		
DN07E	01NE28SD211	QC Dup of 01NE28SD111	8/18/01	SX	1.0	NR*	none		
DN07F	01NE28SD112		8/18/01	SX	1.0	NR*	none		
DN07G	01NE28SD113		8/18/01	SX	1.0	NR*	none		
DN07H	01NE28SD114		8/18/01	SX	1.0	NR*	none		
DN07I	01NE28SD115		8/18/01	SX	1.0	NR*	none		
DN07J	01NE28SD116		8/18/01	SX	1.0	NR*	none		
DN07K	01NE06SD116		8/18/01	SX	1.0	NR*	none		
DN07L	01NE06SD117		8/18/01	SX	1.0	NR*	none		
DN07N	01NE07SS125		8/19/01	SX	1.0	NR*	none		
DN07O	01NE07SS126		8/19/01	SX	1.0	NR*	none		
DN07P	01NE07SS127		8/19/01	SX	1.0	NR*	none		
DN07Q	01NE07SD105		8/19/01	SX	1.0	NR*	none		
DN07R	01NE07SD104		8/19/01	SX	1.0	NR*	none		
Gasoline Range Organics									
DN07K	01NE06SD116		8/18/01	SX	1.0	NR*	none		
DN07L	01NE06SD117		8/18/01	SX	1.0	NR*	none		
DN07M	01NE00TB101	Trip Blank	8/18/01	SX	1.0	NR*	none		
General Chemistry									
DN07A	01NE06TP101	Primary Sample	8/18/01	SX	1.0	NR*	none		
DN07C	01NE06TP102		8/18/01	SX	1.0	NR*	none		
DN07D	01NE28SD111	Primary Sample	8/18/01	SX	1.0	NR*	none		
DN07F	01NE28SD112		8/18/01	SX	1.0	NR*	none		
DN07G	01NE28SD113		8/18/01	SX	1.0	NR*	none		
DN07H	01NE28SD114		8/18/01	SX	1.0	NR*	none		
DN07I	01NE28SD115		8/18/01	SX	1.0	NR*	none		
DN07J	01NE28SD116		8/18/01	SX	1.0	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN07

Date Rec'd: 8/21/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Polychlorinated Biphenyls									
DN07D	01NE28SD111	Primary Sample	8/18/01	SX	1.0	NR*	none		
DN07E	01NE28SD211	QC Dup of 01NE28SD111	8/18/01	SX	1.0	NR*	none		
DN07F	01NE28SD112		8/18/01	SX	1.0	NR*	none		
DN07G	01NE28SD113		8/18/01	SX	1.0	NR*	none		
DN07G-RE	01NE28SD113		8/18/01	SX	1.0	NR*	none		
DN07H	01NE28SD114		8/18/01	SX	1.0	NR*	none		
DN07I	01NE28SD115		8/18/01	SX	1.0	NR*	none		
DN07J	01NE28SD116		8/18/01	SX	1.0	NR*	none		
DN07K	01NE06SD116		8/18/01	SX	1.0	NR*	none		
DN07L	01NE06SD117		8/18/01	SX	1.0	NR*	none		
DN07N	01NE07SS125		8/19/01	SX	1.0	NR*	none		
DN07O	01NE07SS126		8/19/01	SX	1.0	NR*	none		
DN07P	01NE07SS127		8/19/01	SX	1.0	NR*	none		
DN07P-DL	01NE07SS127		8/19/01	SX	1.0	NR*	none		
DN07Q	01NE07SD105		8/19/01	SX	1.0	NR*	none		
DN07R	01NE07SD104		8/19/01	SX	1.0	NR*	none		
Polynuclear Aromatic Hydrocarbons									
DN07D	01NE28SD111	Primary Sample	8/18/01	SX	1.0	NR*	none		
DN07E	01NE28SD211	QC Dup of 01NE28SD111	8/18/01	SX	1.0	NR*	none		
DN07F	01NE28SD112		8/18/01	SX	1.0	NR*	none		
DN07G	01NE28SD113		8/18/01	SX	1.0	NR*	none		
DN07H	01NE28SD114		8/18/01	SX	1.0	NR*	none		
DN07I	01NE28SD115		8/18/01	SX	1.0	NR*	none		
DN07I-DL	01NE28SD115		8/18/01	SX	1.0	NR*	none		
DN07J	01NE28SD116		8/18/01	SX	1.0	NR*	none		
DN07N	01NE07SS125		8/19/01	SX	1.0	NR*	none		
DN07O	01NE07SS126		8/19/01	SX	1.0	NR*	none		
DN07P	01NE07SS127		8/19/01	SX	1.0	NR*	none		
DN07Q	01NE07SD105		8/19/01	SX	1.0	NR*	none		
DN07R	01NE07SD104		8/19/01	SX	1.0	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN07
Date Rec'd: 8/21/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Total Metals									
DN07D	01NE28SD111	Primary Sample	8/18/01	SX	1.0	NR*	none		
DN07E	01NE28SD211	QC Dup of 01NE28SD111	8/18/01	SX	1.0	NR*	none		
DN07F	01NE28SD112		8/18/01	SX	1.0	NR*	none		
DN07G	01NE28SD113		8/18/01	SX	1.0	NR*	none		
DN07H	01NE28SD114		8/18/01	SX	1.0	NR*	none		
DN07I	01NE28SD115		8/18/01	SX	1.0	NR*	none		
DN07J	01NE28SD116		8/18/01	SX	1.0	NR*	none		
DN07K	01NE06SD116		8/18/01	SX	1.0	NR*	none		
DN07L	01NE06SD117		8/18/01	SX	1.0	NR*	none		
DN07N	01NE07SS125		8/19/01	SX	1.0	NR*	none		
DN07O	01NE07SS126		8/19/01	SX	1.0	NR*	none		
DN07P	01NE07SS127		8/19/01	SX	1.0	NR*	none		
DN07Q	01NE07SD105		8/19/01	SX	1.0	NR*	none		
DN07R	01NE07SD104		8/19/01	SX	1.0	NR*	none		
Volatile Organics									
DN07N	01NE07SS125		8/19/01	SX	1.0	NR*	none		
DN07O	01NE07SS126		8/19/01	SX	1.0	NR*	none		
DN07P	01NE07SS127		8/19/01	SX	1.0	NR*	none		
DN07Q	01NE07SD105		8/19/01	SX	1.0	NR*	none		
DN07R	01NE07SD104		8/19/01	SX	1.0	NR*	none		

SDG: DY42
Date Rec'd: 8/21/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Total Metals									
DY42A	01NE06SD116		8/18/01	SX	1.0	NR*	none		
DY42B	01NE06SD117		8/18/01	SX	1.0	NR*	none		
DY42C	01NE07SS126		8/19/01	SX	1.0	NR*	none		
DY42D	01NE07SD105		8/19/01	SX	1.0	NR*	none		
DY42E	01NE07SD104		8/19/01	SX	1.0	NR*	none		

SDG: DN36
Date Rec'd: 8/24/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Diesel / Residual Range Organics									
DN36A	01NE29SW117	Primary Sample	8/20/01	WX	2.5	NR*	none		
DN36B	01NE29SW217	QC Dup of 01NE29SW117	8/20/01	WX	2.0	NR*	none		
DN36C	01NE29SW116		8/21/01	WX	1.5	NR*	none		
DN36D	01NE29SW115		8/21/01	WX	2.5	NR*	none		
DN36E	01NE29SW114		8/21/01	WX	2.5	NR*	none		
DN36F	01NE28SW116		8/20/01	WX	2.0	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN36

Date Rec'd: 8/24/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	1 Q	Bias	RC
Gasoline Range Organics									
DN36G	01NE29SW116		8/21/01	WX	2.0	NR*	none		
DN36H	01NE00TB103	Trip Blank	8/20/01	WX	2.0	NR*	none		
DN36I	01NE29SW117	Primary Sample	8/20/01	WX	2.0	NR*	none		
DN36J	01NE29SW217	QC Dup of 01NE29SW117	8/20/01	WX	2.0	NR*	none		
DN36K	01NE29SW115		8/20/01	WX	2.0	NR*	none		
DN36L	01NE29SW114		8/20/01	WX	2.0	NR*	none		
Polychlorinated Biphenyls									
DN36A	01NE29SW117	Primary Sample	8/20/01	WX	2.5	NR*	none		
DN36B	01NE29SW217	QC Dup of 01NE29SW117	8/20/01	WX	2.0	NR*	none		
DN36C	01NE29SW116		8/21/01	WX	1.5	NR*	none		
DN36D	01NE29SW115		8/21/01	WX	2.5	NR*	none		
DN36E	01NE29SW114		8/21/01	WX	2.5	NR*	none		
DN36F	01NE28SW116		8/20/01	WX	2.0	NR*	none		
Polynuclear Aromatic Hydrocarbons									
DN36A	01NE29SW117	Primary Sample	8/20/01	WX	3.5	NR*	none		
DN36B	01NE29SW217	QC Dup of 01NE29SW117	8/20/01	WX	2.0	NR*	none		
DN36C	01NE29SW116		8/21/01	WX	1.5	NR*	none		
DN36D	01NE29SW115		8/21/01	WX	2.5	NR*	none		
DN36E	01NE29SW114		8/21/01	WX	2.5	NR*	none		
Total Metals									
DN36A	01NE29SW117	Primary Sample	8/20/01	WX	3.5	NR*	none		
DN36B	01NE29SW217	QC Dup of 01NE29SW117	8/20/01	WX	2.0	NR*	none		
DN36C	01NE29SW116		8/21/01	WX	1.5	NR*	J/UJ	L	t
DN36D	01NE29SW115		8/21/01	WX	2.5	NR*	none		
DN36E	01NE29SW114		8/21/01	WX	2.5	NR*	none		
Volatile Organics									
DN36G	01NE29SW116		8/21/01	WX	2.0	NR*	none		
DN36H	01NE00TB103	Trip Blank	8/20/01	WX	2.0	NR*	none		
DN36I	01NE29SW117	Primary Sample	8/20/01	WX	2.0	NR*	none		
DN36J	01NE29SW217	QC Dup of 01NE29SW117	8/20/01	WX	2.0	NR*	none		
DN36K	01NE29SW115		8/20/01	WX	2.0	NR*	none		
DN36L	01NE29SW114		8/20/01	WX	2.0	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN38

Date Rec'd: 8/24/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Diesel / Residual Range Organics									
DN38A	01NE29SD114	Primary Sample	8/21/01	SX	3.5	NR*	none		
DN38B	01NE29SD214	QC Dup of 01NE29SD114	8/21/01	SX	3.5	NR*	none		
DN38C	01NE29SD115		8/21/01	SX	3.5	NR*	none		
DN38D	01NE29SD116		8/21/01	SX	3.5	NR*	none		
DN38E	01NE29SD117		8/21/01	SX	3.5	NR*	none		
DN38F	01NE29SD118		8/21/01	SX	3.5	NR*	none		
DN38G	01NE29SD119		8/21/01	SX	3.5	NR*	none		
DN38H	01NE28SD165		8/20/01	SX	0.5	NR*	none		
DN38I	01NE28SD166		8/20/01	SX	0.5	NR*	none		
DN38J	01NE28SD167		8/20/01	SX	0.5	NR*	none		
DN38K	01NE28SD168		8/20/01	SX	0.5	NR*	none		
DN38L	01NE28SD169		8/20/01	SX	0.5	NR*	none		
DN38M	01NE28SD170		8/20/01	SX	0.5	NR*	none		
General Chemistry									
DN38A	01NE29SD114	Primary Sample	8/21/01	SX	3.5	NR*	none		
DN38C	01NE29SD115		8/21/01	SX	3.5	NR*	none		
DN38D	01NE29SD116		8/21/01	SX	3.5	NR*	none		
DN38E	01NE29SD117		8/21/01	SX	3.5	NR*	none		
DN38F	01NE29SD118		8/21/01	SX	3.5	NR*	none		
DN38G	01NE29SD119		8/21/01	SX	3.5	NR*	none		
DN38H	01NE28SD165		8/20/01	SX	0.5	NR*	none		
DN38I	01NE28SD166		8/20/01	SX	0.5	NR*	none		
DN38J	01NE28SD167		8/20/01	SX	0.5	NR*	none		
DN38K	01NE28SD168		8/20/01	SX	0.5	NR*	none		
DN38L	01NE28SD169		8/20/01	SX	0.5	NR*	none		
DN38M	01NE28SD170		8/20/01	SX	0.5	NR*	none		
Polychlorinated Biphenyls									
DN38A	01NE29SD114	Primary Sample	8/21/01	SX	3.5	NR*	none		
DN38B	01NE29SD214	QC Dup of 01NE29SD114	8/21/01	SX	3.5	NR*	none		
DN38C	01NE29SD115		8/21/01	SX	3.5	NR*	none		
DN38D	01NE29SD116		8/21/01	SX	3.5	NR*	none		
DN38E	01NE29SD117		8/21/01	SX	3.5	NR*	none		
DN38F	01NE29SD118		8/21/01	SX	3.5	NR*	none		
DN38G	01NE29SD119		8/21/01	SX	3.5	NR*	none		
DN38H	01NE28SD165		8/20/01	SX	0.5	NR*	none		
DN38I	01NE28SD166		8/20/01	SX	0.5	NR*	none		
DN38J	01NE28SD167		8/20/01	SX	0.5	NR*	none		
DN38K	01NE28SD168		8/20/01	SX	0.5	NR*	none		
DN38L	01NE28SD169		8/20/01	SX	0.5	NR*	none		
DN38M	01NE28SD170		8/20/01	SX	0.5	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN38

Date Rec'd: 8/24/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Polynuclear Aromatic Hydrocarbons									
DN38A	01NE29SD114	Primary Sample	8/21/01	SX	3.5	NR*	none		
DN38B	01NE29SD214	QC Dup of 01NE29SD114	8/21/01	SX	3.5	NR*	none		
DN38C	01NE29SD115		8/21/01	SX	3.5	NR*	none		
DN38D	01NE29SD116		8/21/01	SX	3.5	NR*	none		
DN38E	01NE29SD117		8/21/01	SX	3.5	NR*	none		
DN38F	01NE29SD118		8/21/01	SX	3.5	NR*	none		
DN38G	01NE29SD119		8/21/01	SX	3.5	NR*	none		
DN38H	01NE28SD165		8/20/01	SX	0.5	NR*	none		
DN38I	01NE28SD166		8/20/01	SX	0.5	NR*	none		
DN38J	01NE28SD167		8/20/01	SX	0.5	NR*	none		
DN38K	01NE28SD168		8/20/01	SX	0.5	NR*	none		
DN38L	01NE28SD169		8/20/01	SX	0.5	NR*	none		
DN38M	01NE28SD170		8/20/01	SX	0.5	NR*	none		
Total Metals									
DN38A	01NE29SD114	Primary Sample	8/21/01	SX	3.5	NR*	none		
DN38B	01NE29SD214	QC Dup of 01NE29SD114	8/21/01	SX	3.5	NR*	none		
DN38C	01NE29SD115		8/21/01	SX	3.5	NR*	none		
DN38D	01NE29SD116		8/21/01	SX	3.5	NR*	none		
DN38E	01NE29SD117		8/21/01	SX	3.5	NR*	none		
DN38F	01NE29SD118		8/21/01	SX	3.5	NR*	none		
DN38G	01NE29SD119		8/21/01	SX	3.5	NR*	none		
DN38H	01NE28SD165		8/20/01	SX	0.5	NR*	none		
DN38I	01NE28SD166		8/20/01	SX	0.5	NR*	none		
DN38J	01NE28SD167		8/20/01	SX	0.5	NR*	none		
DN38K	01NE28SD168		8/20/01	SX	0.5	NR*	none		
DN38L	01NE28SD169		8/20/01	SX	0.5	NR*	none		
DN38M	01NE28SD170		8/20/01	SX	0.5	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN39

Date Rec'd: 8/24/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Diesel / Residual Range Organics									
DN39A	01NE28SD159		8/20/01	SX	1.5	NR*	none		
DN39B	01NE28SD160		8/20/01	SX	1.5	NR*	none		
DN39B-DL	01NE28SD160		8/20/01	SX	1.5	NR*	none		
DN39C	01NE28SD161		8/20/01	SX	1.5	NR*	none		
DN39C-DL	01NE28SD161		8/20/01	SX	1.5	NR*	none		
DN39D	01NE28SD163	Primary Sample	8/20/01	SX	1.5	NR*	none		
DN39D-DL	01NE28SD163	Primary Sample	8/20/01	SX	1.5	NR*	none		
DN39E	01NE28SD164		8/20/01	SX	1.5	NR*	none		
DN39E-DL	01NE28SD164		8/20/01	SX	1.5	NR*	none		
DN39F	01NE28SD263	QC Dup of 01NE28SD163	8/20/01	SX	1.5	NR*	none		
DN39F-DL	01NE28SD263	QC Dup of 01NE28SD163	8/20/01	SX	1.5	NR*	none		
DN39G	01NE28SD171	Primary Sample	8/20/01	SX	3.5	NR*	none		
DN39H	01NE28SD172		8/20/01	SX	3.5	NR*	none		
DN39H-DL	01NE28SD172		8/20/01	SX	3.5	NR*	none		
DN39I	01NE28SD173		8/20/01	SX	3.5	NR*	none		
DN39J	01NE28SD174		8/20/01	SX	3.5	NR*	none		
DN39K	01NE28SD175	Primary Sample	8/20/01	SX	3.5	NR*	none		
DN39L	01NE28SD176		8/20/01	SX	3.5	NR*	none		
DN39M	01NE28SD271	QC Dup of 01NE28SD171	8/20/01	SX	3.5	NR*	none		
DN39N	01NE28SD275	QC Dup of 01NE28SD175	8/20/01	SX	3.5	NR*	none		
DN39O	01NE28SD177		8/20/01	SX	1.5	NR*	none		
DN39P	01NE28SD178		8/20/01	SX	1.5	NR*	none		
DN39P-DL	01NE28SD178		8/20/01	SX	1.5	NR*	none		
DN39Q	01NE28SD179		8/20/01	SX	1.5	NR*	none		
DN39R	01NE28SD180		8/20/01	SX	1.5	NR*	none		
DN39S	01NE28SD181		8/20/01	SX	1.5	NR*	none		
DN39T	01NE28SD182		8/20/01	SX	1.5	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN39

Date Rec'd: 8/24/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q[1]	Bias	RC
General Chemistry									
DN39A	01NE28SD159		8/20/01	SX	1.5	NR*	none		
DN39B	01NE28SD160		8/20/01	SX	1.5	NR*	none		
DN39C	01NE28SD161		8/20/01	SX	1.5	NR*	none		
DN39D	01NE28SD163	Primary Sample	8/20/01	SX	1.5	NR*	none		
DN39E	01NE28SD164		8/20/01	SX	1.5	NR*	none		
DN39G	01NE28SD171	Primary Sample	8/20/01	SX	3.5	NR*	none		
DN39H	01NE28SD172		8/20/01	SX	3.5	NR*	none		
DN39I	01NE28SD173		8/20/01	SX	3.5	NR*	none		
DN39J	01NE28SD174		8/20/01	SX	3.5	NR*	none		
DN39K	01NE28SD175	Primary Sample	8/20/01	SX	3.5	NR*	none		
DN39L	01NE28SD176		8/20/01	SX	3.5	NR*	none		
DN39O	01NE28SD177		8/20/01	SX	1.5	NR*	none		
DN39P	01NE28SD178		8/20/01	SX	1.5	NR*	none		
DN39Q	01NE28SD179		8/20/01	SX	1.5	NR*	none		
DN39R	01NE28SD180		8/20/01	SX	1.5	NR*	none		
DN39S	01NE28SD181		8/20/01	SX	1.5	NR*	none		
DN39T	01NE28SD182		8/20/01	SX	1.5	NR*	none		
Polychlorinated Biphenyls									
DN39A	01NE28SD159		8/20/01	SX	1.5	NR*	none		
DN39B	01NE28SD160		8/20/01	SX	1.5	NR*	none		
DN39C	01NE28SD161		8/20/01	SX	1.5	NR*	none		
DN39D	01NE28SD163	Primary Sample	8/20/01	SX	1.5	NR*	none		
DN39E	01NE28SD164		8/20/01	SX	1.5	NR*	none		
DN39F	01NE28SD263	QC Dup of 01NE28SD163	8/20/01	SX	1.5	NR*	none		
DN39G	01NE28SD171	Primary Sample	8/20/01	SX	3.5	NR*	none		
DN39H	01NE28SD172		8/20/01	SX	3.5	NR*	none		
DN39I	01NE28SD173		8/20/01	SX	3.5	NR*	none		
DN39J	01NE28SD174		8/20/01	SX	3.5	NR*	none		
DN39K	01NE28SD175	Primary Sample	8/20/01	SX	3.5	NR*	none		
DN39L	01NE28SD176		8/20/01	SX	3.5	NR*	none		
DN39M	01NE28SD271	QC Dup of 01NE28SD171	8/20/01	SX	3.5	NR*	none		
DN39N	01NE28SD275	QC Dup of 01NE28SD175	8/20/01	SX	3.5	NR*	none		
DN39O	01NE28SD177		8/20/01	SX	1.5	NR*	none		
DN39P	01NE28SD178		8/20/01	SX	1.5	NR*	none		
DN39Q	01NE28SD179		8/20/01	SX	1.5	NR*	none		
DN39R	01NE28SD180		8/20/01	SX	1.5	NR*	none		
DN39S	01NE28SD181		8/20/01	SX	1.5	NR*	none		
DN39T	01NE28SD182		8/20/01	SX	1.5	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN39

Date Rec'd: 8/24/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Polynuclear Aromatic Hydrocarbons									
DN39A	01NE28SD159		8/20/01	SX	1.5	NR*	none		
DN39B	01NE28SD160		8/20/01	SX	1.5	NR*	none		
DN39C	01NE28SD161		8/20/01	SX	1.5	NR*	none		
DN39C-DL	01NE28SD161		8/20/01	SX	1.5	NR*	none		
DN39D	01NE28SD163	Primary Sample	8/20/01	SX	1.5	NR*	none		
DN39E	01NE28SD164		8/20/01	SX	1.5	NR*	none		
DN39F	01NE28SD263	QC Dup of 01NE28SD163	8/20/01	SX	1.5	NR*	none		
DN39G	01NE28SD171	Primary Sample	8/20/01	SX	3.5	NR*	none		
DN39H	01NE28SD172		8/20/01	SX	3.5	NR*	none		
DN39I	01NE28SD173		8/20/01	SX	3.5	NR*	none		
DN39J	01NE28SD174		8/20/01	SX	3.5	NR*	none		
DN39K	01NE28SD175	Primary Sample	8/20/01	SX	3.5	NR*	none		
DN39K-RE	01NE28SD175	Primary Sample	8/20/01	SX	3.5	NR*	none		
DN39L	01NE28SD176		8/20/01	SX	3.5	NR*	none		
DN39M	01NE28SD271	QC Dup of 01NE28SD171	8/20/01	SX	3.5	NR*	none		
DN39N	01NE28SD275	QC Dup of 01NE28SD175	8/20/01	SX	3.5	NR*	none		
DN39O	01NE28SD177		8/20/01	SX	1.5	NR*	none		
DN39P	01NE28SD178		8/20/01	SX	1.5	NR*	none		
DN39Q	01NE28SD179		8/20/01	SX	1.5	NR*	none		
DN39R	01NE28SD180		8/20/01	SX	1.5	NR*	none		
DN39S	01NE28SD181		8/20/01	SX	1.5	NR*	none		
DN39T	01NE28SD182		8/20/01	SX	1.5	NR*	none		
DN39T-DL	01NE28SD182		8/20/01	SX	1.5	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN39
Date Rec'd: 8/24/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Total Metals									
DN39A	01NE28SD159		8/20/01	SX	1.5	NR*	none		
DN39B	01NE28SD160		8/20/01	SX	1.5	NR*	none		
DN39C	01NE28SD161		8/20/01	SX	1.5	NR*	none		
DN39D	01NE28SD163	Primary Sample	8/20/01	SX	1.5	NR*	none		
DN39E	01NE28SD164		8/20/01	SX	1.5	NR*	none		
DN39F	01NE28SD263	QC Dup of 01NE28SD163	8/20/01	SX	1.5	NR*	none		
DN39G	01NE28SD171	Primary Sample	8/20/01	SX	3.5	NR*	none		
DN39H	01NE28SD172		8/20/01	SX	3.5	NR*	none		
DN39I	01NE28SD173		8/20/01	SX	3.5	NR*	none		
DN39J	01NE28SD174		8/20/01	SX	3.5	NR*	none		
DN39K	01NE28SD175	Primary Sample	8/20/01	SX	3.5	NR*	none		
DN39L	01NE28SD176		8/20/01	SX	3.5	NR*	none		
DN39M	01NE28SD271	QC Dup of 01NE28SD171	8/20/01	SX	3.5	NR*	none		
DN39N	01NE28SD275	QC Dup of 01NE28SD175	8/20/01	SX	3.5	NR*	none		
DN39O	01NE28SD177		8/20/01	SX	1.5	NR*	none		
DN39P	01NE28SD178		8/20/01	SX	1.5	NR*	none		
DN39Q	01NE28SD179		8/20/01	SX	1.5	NR*	none		
DN39R	01NE28SD180		8/20/01	SX	1.5	NR*	none		
DN39S	01NE28SD181		8/20/01	SX	1.5	NR*	none		
DN39T	01NE28SD182		8/20/01	SX	1.5	NR*	none		

SDG: DN40
Date Rec'd: 8/24/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
BTEX									
DN40J	01NE29SD128		8/21/01	SX	3.5	NR*	none		
DN40K	01NE29SD129		8/21/01	SX	3.5	NR*	none		
DN40L	01NE00TB104	Trip Blank	8/21/01	SX	3.5	NR*	none		
DN40M	01NE29SD127		8/21/01	SX	3.5	NR*	none		
DN40N	01NE29SD126		8/21/01	SX	3.5	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN40

Date Rec'd: 8/24/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Diesel / Residual Range Organics									
DN40A	01NE29SD123		8/21/01	SX	1.5	NR*	none		
DN40A-RE	01NE29SD123		8/21/01	SX	1.5	NR*	none		
DN40B	01NE29SD124		8/21/01	SX	1.5	NR*	none		
DN40B-RE	01NE29SD124		8/21/01	SX	1.5	NR*	none		
DN40C	01NE29SD125	Primary Sample	8/21/01	SX	1.5	NR*	none		
DN40C-RE	01NE29SD125	Primary Sample	8/21/01	SX	1.5	NR*	none		
DN40D	01NE29SD225	QC Dup of 01NE29SD125	8/21/01	SX	1.5	NR*	none		
DN40D-RE	01NE29SD225	QC Dup of 01NE29SD125	8/21/01	SX	1.5	NR*	none		
DN40E	01NE29SD128		8/21/01	SX	1.5	NR*	none		
DN40E-RE	01NE29SD128		8/21/01	SX	1.5	NR*	none		
DN40F	01NE29SD129		8/21/01	SX	1.5	NR*	none		
DN40F-RE	01NE29SD129		8/21/01	SX	1.5	NR*	none		
DN40G	01NE29SD120		8/21/01	SX	3.5	NR*	none		
DN40G-RE	01NE29SD120		8/21/01	SX	3.5	NR*	none		
DN40H	01NE29SD121		8/21/01	SX	3.5	NR*	none		
DN40H-RE	01NE29SD121		8/21/01	SX	3.5	NR*	none		
DN40I	01NE29SD122		8/21/01	SX	3.5	NR*	none		
DN40I-RE	01NE29SD122		8/21/01	SX	3.5	NR*	none		
DN40M	01NE29SD127		8/21/01	SX	3.5	NR*	none		
DN40M-RE	01NE29SD127		8/21/01	SX	3.5	NR*	none		
DN40N	01NE29SD126		8/21/01	SX	3.5	NR*	none		
DN40N-RE	01NE29SD126		8/21/01	SX	3.5	NR*	none		
Gasoline Range Organics									
DN40J	01NE29SD128		8/21/01	SX	3.5	NR*	none		
DN40K	01NE29SD129		8/21/01	SX	3.5	NR*	none		
DN40L	01NE00TB104	Trip Blank	8/21/01	SX	3.5	NR*	none		
DN40M	01NE29SD127		8/21/01	SX	3.5	NR*	none		
DN40N	01NE29SD126		8/21/01	SX	3.5	NR*	none		
General Chemistry									
DN40A	01NE29SD123		8/21/01	SX	1.5	NR*	none		
DN40B	01NE29SD124		8/21/01	SX	1.5	NR*	none		
DN40C	01NE29SD125	Primary Sample	8/21/01	SX	1.5	NR*	none		
DN40G	01NE29SD120		8/21/01	SX	3.5	NR*	none		
DN40H	01NE29SD121		8/21/01	SX	3.5	NR*	none		
DN40I	01NE29SD122		8/21/01	SX	3.5	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN40

Date Rec'd: 8/24/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Polychlorinated Biphenyls									
DN40A	01NE29SD123		8/21/01	SX	1.5	NR*	none		
DN40A-RE	01NE29SD123		8/21/01	SX	1.5	NR*	none		
DN40B	01NE29SD124		8/21/01	SX	1.5	NR*	none		
DN40B-RE	01NE29SD124		8/21/01	SX	1.5	NR*	none		
DN40C	01NE29SD125	Primary Sample	8/21/01	SX	1.5	NR*	none		
DN40C-RE	01NE29SD125	Primary Sample	8/21/01	SX	1.5	NR*	none		
DN40D	01NE29SD225	QC Dup of 01NE29SD125	8/21/01	SX	1.5	NR*	none		
DN40D-RE	01NE29SD225	QC Dup of 01NE29SD125	8/21/01	SX	1.5	NR*	none		
DN40E	01NE29SD128		8/21/01	SX	1.5	NR*	none		
DN40E-RE	01NE29SD128		8/21/01	SX	1.5	NR*	none		
DN40F	01NE29SD129		8/21/01	SX	1.5	NR*	none		
DN40F-RE	01NE29SD129		8/21/01	SX	1.5	NR*	none		
DN40G	01NE29SD120		8/21/01	SX	3.5	NR*	none		
DN40G-RE	01NE29SD120		8/21/01	SX	3.5	NR*	none		
DN40H	01NE29SD121		8/21/01	SX	3.5	NR*	none		
DN40H-RE	01NE29SD121		8/21/01	SX	3.5	NR*	none		
DN40I	01NE29SD122		8/21/01	SX	3.5	NR*	none		
DN40I-RE	01NE29SD122		8/21/01	SX	3.5	NR*	none		
DN40M	01NE29SD127		8/21/01	SX	3.5	NR*	none		
DN40M-RE	01NE29SD127		8/21/01	SX	3.5	NR*	none		
DN40N	01NE29SD126		8/21/01	SX	3.5	NR*	none		
DN40N-RE	01NE29SD126		8/21/01	SX	3.5	NR*	none		
Polynuclear Aromatic Hydrocarbons									
DN40A	01NE29SD123		8/21/01	SX	1.5	NR*	none		
DN40B	01NE29SD124		8/21/01	SX	1.5	NR*	none		
DN40C	01NE29SD125	Primary Sample	8/21/01	SX	1.5	NR*	none		
DN40C-RE	01NE29SD125	Primary Sample	8/21/01	SX	1.5	NR*	none		
DN40D	01NE29SD225	QC Dup of 01NE29SD125	8/21/01	SX	1.5	NR*	none		
DN40E	01NE29SD128		8/21/01	SX	1.5	NR*	none		
DN40E-RE	01NE29SD128		8/21/01	SX	1.5	NR*	none		
DN40F	01NE29SD129		8/21/01	SX	1.5	NR*	none		
DN40G	01NE29SD120		8/21/01	SX	3.5	NR*	none		
DN40H	01NE29SD121		8/21/01	SX	3.5	NR*	none		
DN40I	01NE29SD122		8/21/01	SX	3.5	NR*	none		
DN40M	01NE29SD127		8/21/01	SX	3.5	NR*	none		
DN40N	01NE29SD126		8/21/01	SX	3.5	NR*	none		
DN40N-RE	01NE29SD126		8/21/01	SX	3.5	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN40
Date Rec'd: 8/24/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Total Metals									
DN40A	01NE29SD123		8/21/01	SX	1.5	NR*	none		
DN40B	01NE29SD124		8/21/01	SX	1.5	NR*	none		
DN40C	01NE29SD125	Primary Sample	8/21/01	SX	1.5	NR*	none		
DN40D	01NE29SD225	QC Dup of 01NE29SD125	8/21/01	SX	1.5	NR*	none		
DN40E	01NE29SD128		8/21/01	SX	1.5	NR*	none		
DN40F	01NE29SD129		8/21/01	SX	1.5	NR*	none		
DN40G	01NE29SD120		8/21/01	SX	3.5	NR*	none		
DN40H	01NE29SD121		8/21/01	SX	3.5	NR*	none		
DN40I	01NE29SD122		8/21/01	SX	3.5	NR*	none		
DN40M	01NE29SD127		8/21/01	SX	3.5	NR*	none		
DN40N	01NE29SD126		8/21/01	SX	3.5	NR*	none		

SDG: DY41
Date Rec'd: 8/24/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Total Metals									
DY41A	01NE29SD128		8/21/01	SX	1.5	NR*	none		
DY41B	01NE29SD129		8/21/01	SX	1.5	NR*	none		
DY41C	01NE29SD127		8/21/01	SX	3.5	NR*	none		
DY41D	01NE29SD126		8/21/01	SX	3.5	NR*	none		

SDG: DN53
Date Rec'd: 8/25/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Diesel / Residual Range Organics									
DN53A	01NE09SW109		8/23/01	WX	1.5	NR*	none		
DN53A-RE	01NE09SW109		8/23/01	WX	1.5	NR*	none		
DN53B	01NE09SW107	Primary Sample	8/23/01	WX	2.0	NR*	none		
DN53B-RE	01NE09SW107	Primary Sample	8/23/01	WX	2.0	NR*	none		
DN53F	01NE09SW207	QC Dup of 01NE09SW107	8/23/01	WX	2.0	NR*	none		
DN53F-RE	01NE09SW207	QC Dup of 01NE09SW107	8/23/01	WX	2.0	NR*	none		
DN53G	01NE09SW108		8/23/01	WX	0.5	NR*	none		
DN53G-RE	01NE09SW108		8/23/01	WX	0.5	NR*	none		
Gasoline Range Organics									
DN53J	01NE09SW207	QC Dup of 01NE09SW207	8/23/01	WX	0.5	NR*	none		
DN53K	01NE09SW109		8/23/01	WX	0.5	NR*	none		
DN53L	01NE09SW108		8/23/01	WX	0.5	NR*	none		
DN53M	01NE09SW107	Primary Sample	8/23/01	WX	0.5	NR*	none		
DN53N	01NE00TB108	Trip Blank	8/23/01	WX	0.5	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN53

Date Rec'd: 8/25/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Polychlorinated Biphenyls									
DN53A	01NE09SW109		8/23/01	WX	1.5	NR*	none		
DN53B	01NE09SW107	Primary Sample	8/23/01	WX	2.0	NR*	none		
DN53F	01NE09SW207	QC Dup of 01NE09SW107	8/23/01	WX	2.0	NR*	none		
DN53G	01NE09SW108		8/23/01	WX	0.5	NR*	none		
Polynuclear Aromatic Hydrocarbons									
DN53A	01NE09SW109		8/23/01	WX	1.5	NR*	none		
DN53B	01NE09SW107	Primary Sample	8/23/01	WX	2.0	NR*	none		
DN53F	01NE09SW207	QC Dup of 01NE09SW107	8/23/01	WX	2.0	NR*	none		
DN53G	01NE09SW108		8/23/01	WX	0.5	NR*	none		
DN53I	01NE16GW103		8/23/01	WX	0.5	NR*	none		
Semivolatile Organics									
DN53C	01NE16GW101	Primary Sample	8/23/01	WX	-0.5	NR*	none		
DN53D	01NE16GW201	QC Dup of 01NE16GW101	8/23/01	WX	-0.5	NR*	none		
DN53E	01NE16GW102		8/23/01	WX	-0.5	NR*	none		
Total Metals									
DN53A	01NE09SW109		8/23/01	WX	1.5	NR*	J/UJ	L	t
DN53F	01NE09SW207	QC Dup of 01NE09SW107	8/23/01	WX	2.0	NR*	none		
DN53G	01NE09SW108		8/23/01	WX	0.5	NR*	J/UJ	L	t
DN53H	01NE09SW107	Primary Sample	8/23/01	WX	0.5	NR*	J/UJ	L	t
Volatile Organics									
DN53J	01NE09SW207	QC Dup of 01NE09SW207	8/23/01	WX	0.5	NR*	none		
DN53K	01NE09SW109		8/23/01	WX	0.5	NR*	none		
DN53L	01NE09SW108		8/23/01	WX	0.5	NR*	none		
DN53M	01NE09SW107	Primary Sample	8/23/01	WX	0.5	NR*	none		
DN53N	01NE00TB108	Trip Blank	8/23/01	WX	0.5	NR*	none		
DN53O	TRIP BLANK	Trip Blank	8/23/01	WX	NR*	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN55

Date Rec'd: 8/25/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Diesel / Residual Range Organics									
DN55A	01NE33SS101		8/23/01	SX	-0.5	NR*	none		
DN55B	01NE33SS102		8/23/01	SX	-0.5	NR*	none		
DN55C	01NE33SS103		8/23/01	SX	-0.5	NR*	none		
DN55D	01NE34SS101		8/23/01	SX	-0.5	NR*	none		
DN55E	01NE34SS102		8/23/01	SX	-0.5	NR*	none		
DN55F	01NE34SS103		8/23/01	SX	-0.5	NR*	none		
DN55G	01NE34SS105		8/23/01	SX	-0.5	NR*	none		
DN55H	01NE34SS106		8/23/01	SX	-0.5	NR*	none		
DN55H-DL	01NE34SS106		8/23/01	SX	-0.5	NR*	none		
DN55I	01NE34SS107		8/23/01	SX	-0.5	NR*	none		
DN55J	01NE34SS108		8/23/01	SX	-0.5	NR*	none		
DN55K	01NE34SS109		8/23/01	SX	-0.5	NR*	none		
DN55L	01NE34SS110		8/23/01	SX	-0.5	NR*	none		
DN55M	01NE34SS111		8/23/01	SX	-0.5	NR*	none		
General Chemistry									
DN55I	01NE34SS107		8/23/01	SX	-0.5	NR*	none		
DN55J	01NE34SS108		8/23/01	SX	-0.5	NR*	none		
DN55K	01NE34SS109		8/23/01	SX	-0.5	NR*	none		
DN55L	01NE34SS110		8/23/01	SX	-0.5	NR*	none		
Polychlorinated Biphenyls									
DN55A	01NE33SS101		8/23/01	SX	-0.5	NR*	none		
DN55B	01NE33SS102		8/23/01	SX	-0.5	NR*	none		
DN55C	01NE33SS103		8/23/01	SX	-0.5	NR*	none		
DN55D	01NE34SS101		8/23/01	SX	-0.5	NR*	none		
DN55E	01NE34SS102		8/23/01	SX	-0.5	NR*	none		
DN55F	01NE34SS103		8/23/01	SX	-0.5	NR*	none		
DN55I	01NE34SS107		8/23/01	SX	-0.5	NR*	none		
DN55J	01NE34SS108		8/23/01	SX	-0.5	NR*	none		
DN55K	01NE34SS109		8/23/01	SX	-0.5	NR*	none		
DN55L	01NE34SS110		8/23/01	SX	-0.5	NR*	none		
Polynuclear Aromatic Hydrocarbons									
DN55D	01NE34SS101		8/23/01	SX	-0.5	NR*	none		
DN55D-RE	01NE34SS101		8/23/01	SX	-0.5	NR*	none		
DN55E	01NE34SS102		8/23/01	SX	-0.5	NR*	none		
DN55F	01NE34SS103		8/23/01	SX	-0.5	NR*	none		
DN55M	01NE34SS111		8/23/01	SX	-0.5	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN68

Date Rec'd: 8/28/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
BTEX									
DN68A	01NE21SS169	Primary Sample	8/24/01	SX	2.5	NR*	none		
DN68B	01NE21SS269	QC Dup of 01NE21SS169	8/24/01	SX	2.5	NR*	none		
DN68K	01NE09SS171		8/24/01	SX	2.5	NR*	none		
DN68L	01NE00TB111	Trip Blank	8/24/01	SX	2.5	NR*	none		
Diesel / Residual Range Organics									
DN68A	01NE21SS169	Primary Sample	8/24/01	SX	2.5	NR*	none		
DN68B	01NE21SS269	QC Dup of 01NE21SS169	8/24/01	SX	2.5	NR*	none		
DN68F	01NE09SD114		8/24/01	SX	2.5	NR*	none		
DN68F-RE	01NE09SD114		8/24/01	SX	2.5	NR*	none		
DN68N	01NE31SS101		8/24/01	SX	1.0	NR*	none		
DN68O	01NE31SS102	Primary Sample	8/24/01	SX	1.0	NR*	none		
DN68Q	01NE31SS103		8/24/01	SX	1.0	NR*	none		
DN68R	01NE31SS104		8/24/01	SX	1.0	NR*	none		
DN68S	01NE32SS101		8/24/01	SX	1.0	NR*	none		
DN68T	01NE32SS102		8/24/01	SX	1.0	NR*	none		
DN68U	01NE32SS103		8/24/01	SX	1.0	NR*	none		
DN68V	01NE32SS104		8/24/01	SX	1.0	NR*	none		
Gasoline Range Organics									
DN68A	01NE21SS169	Primary Sample	8/24/01	SX	2.5	NR*	none		
DN68B	01NE21SS269	QC Dup of 01NE21SS169	8/24/01	SX	2.5	NR*	none		
DN68G	01NE09SD113	Primary Sample	8/24/01	SX	2.5	NR*	none		
DN68K	01NE09SS171		8/24/01	SX	2.5	NR*	none		
DN68L	01NE00TB111	Trip Blank	8/24/01	SX	2.5	NR*	none		
General Chemistry									
DN68F	01NE09SD114		8/24/01	SX	2.5	NR*	none		
Organochlorine Pesticides / PCBs									
DN68N	01NE31SS101		8/24/01	SX	1.0	NR*	none		
DN68N-DL	01NE31SS101		8/24/01	SX	1.0	NR*	none		
DN68O	01NE31SS102	Primary Sample	8/24/01	SX	1.0	NR*	none		
DN68O-DL	01NE31SS102	Primary Sample	8/24/01	SX	1.0	NR*	none		
DN68P	01NE31SS202	QC Dup of 01NE31SS102	8/24/01	SX	1.0	NR*	none		
DN68P-DL	01NE31SS202	QC Dup of 01NE31SS102	8/24/01	SX	1.0	NR*	none		
DN68Q	01NE31SS103		8/24/01	SX	1.0	NR*	none		
DN68Q-DL	01NE31SS103		8/24/01	SX	1.0	NR*	none		
DN68R	01NE31SS104		8/24/01	SX	1.0	NR*	none		
DN68R-DL	01NE31SS104		8/24/01	SX	1.0	NR*	none		
DN68U	01NE32SS103		8/24/01	SX	1.0	NR*	none		
DN68V	01NE32SS104		8/24/01	SX	1.0	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN68
Date Rec'd: 8/28/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Polychlorinated Biphenyls									
DN68A	01NE21SS169	Primary Sample	8/24/01	SX	2.5	NR*	none		
DN68B	01NE21SS269	QC Dup of 01NE21SS169	8/24/01	SX	2.5	NR*	none		
DN68F	01NE09SD114		8/24/01	SX	2.5	NR*	none		
DN68M	01NE34SS104		8/23/01	SX	1.0	NR*	none		
Polynuclear Aromatic Hydrocarbons									
DN68F	01NE09SD114		8/24/01	SX	2.5	NR*	none		
Total Metals									
DN68A	01NE21SS169	Primary Sample	8/24/01	SX	2.5	NR*	none		
DN68B	01NE21SS269	QC Dup of 01NE21SS169	8/24/01	SX	2.5	NR*	none		
DN68F	01NE09SD114		8/24/01	SX	2.5	NR*	none		
Volatile Organics									
DN68C	01NE09SD108		8/23/01	SX	2.5	NR*	none		
DN68D	01NE09SD109		8/23/01	SX	2.5	NR*	none		
DN68E	01NE09SD107		8/23/01	SX	2.5	NR*	none		
DN68F	01NE09SD114		8/24/01	SX	2.5	NR*	none		
DN68G	01NE09SD113	Primary Sample	8/24/01	SX	2.5	NR*	none		
DN68H	01NE09SD213	QC Dup of 01NE09SD113	8/24/01	SX	2.5	NR*	none		
DN68L	01NE00TB111	Trip Blank	8/24/01	SX	2.5	NR*	none		

SDG: DN69
Date Rec'd: 8/28/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
BTEX									
DN69N	01NE31SS121	Primary Sample	8/24/01	SX	2.5	NR*	none		
DN69O	01NE31SS122		8/24/01	SX	2.5	NR*	none		
DN69P	01NE31SS123		8/24/01	SX	2.5	NR*	none		
DN69Q	01NE31SS124		8/24/01	SX	2.5	NR*	none		
DN69R	01NE31SS221	QC Dup of 01NE31SS121	8/24/01	SX	2.5	NR*	none		
DN69S	01NE00TB114	Trip Blank	8/24/01	SX	2.5	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN69

Date Rec'd: 8/28/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Diesel / Residual Range Organics									
DN69A	01NE21SB169		8/24/01	SX	3.5	NR*	none		
DN69B	01NE21SB170		8/24/01	SX	3.5	NR*	none		
DN69C	01NE21SS170		8/24/01	SX	3.5	NR*	none		
DN69D	01NE21SB171		8/24/01	SX	3.5	NR*	none		
DN69E	01NE21SS171		8/24/01	SX	3.5	NR*	none		
DN69F	01NE21SS172		8/24/01	SX	3.5	NR*	none		
DN69G	01NE21SS173		8/24/01	SX	3.5	NR*	none		
DN69H	01NE21SD113		8/24/01	SX	3.5	NR*	none		
DN69I	01NE21SD114		8/24/01	SX	3.5	NR*	none		
DN69N	01NE31SS121	Primary Sample	8/24/01	SX	2.5	NR*	none		
DN69O	01NE31SS122		8/24/01	SX	2.5	NR*	none		
DN69P	01NE31SS123		8/24/01	SX	2.5	NR*	none		
DN69Q	01NE31SS124		8/24/01	SX	2.5	NR*	none		
DN69R	01NE31SS221	QC Dup of 01NE31SS121	8/24/01	SX	2.5	NR*	none		
Gasoline Range Organics									
DN69N	01NE31SS121	Primary Sample	8/24/01	SX	2.5	NR*	none		
DN69O	01NE31SS122		8/24/01	SX	2.5	NR*	none		
DN69P	01NE31SS123		8/24/01	SX	2.5	NR*	none		
DN69Q	01NE31SS124		8/24/01	SX	2.5	NR*	none		
DN69R	01NE31SS221	QC Dup of 01NE31SS121	8/24/01	SX	2.5	NR*	none		
DN69S	01NE00TB114	Trip Blank	8/24/01	SX	2.5	NR*	none		
Organochlorine Pesticides / PCBs									
DN69N	01NE31SS121	Primary Sample	8/24/01	SX	2.5	NR*	none		
DN69O	01NE31SS122		8/24/01	SX	2.5	NR*	none		
DN69O-DL	01NE31SS122		8/24/01	SX	2.5	NR*	none		
DN69P	01NE31SS123		8/24/01	SX	2.5	NR*	none		
DN69P-DL	01NE31SS123		8/24/01	SX	2.5	NR*	none		
DN69Q	01NE31SS124		8/24/01	SX	2.5	NR*	none		
Polychlorinated Biphenyls									
DN69A	01NE21SB169		8/24/01	SX	3.5	NR*	none		
DN69B	01NE21SB170		8/24/01	SX	3.5	NR*	none		
DN69C	01NE21SS170		8/24/01	SX	3.5	NR*	none		
DN69D	01NE21SB171		8/24/01	SX	3.5	NR*	none		
DN69E	01NE21SS171		8/24/01	SX	3.5	NR*	none		
DN69F	01NE21SS172		8/24/01	SX	3.5	NR*	none		
DN69G	01NE21SS173		8/24/01	SX	3.5	NR*	none		
DN69H	01NE21SD113		8/24/01	SX	3.5	NR*	none		
DN69I	01NE21SD114		8/24/01	SX	3.5	NR*	none		
DN69J	01NE14SS101		8/24/01	SX	3.5	NR*	none		
DN69K	01NE14SS102		8/24/01	SX	3.5	NR*	none		
DN69K-DL	01NE14SS102		8/24/01	SX	3.5	NR*	none		
DN69L	01NE14SS103	Primary Sample	8/24/01	SX	3.5	NR*	none		
DN69M	01NE14SS203	QC Dup of 01NE14SS103	8/24/01	SX	3.5	NR*	none		

Prepared by ETHIX

3/19/02

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN69
Date Rec'd: 8/28/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Total Metals									
DN69A	01NE21SB169		8/24/01	SX	3.5	NR*	none		
DN69B	01NE21SB170		8/24/01	SX	3.5	NR*	none		
DN69C	01NE21SS170		8/24/01	SX	3.5	NR*	none		
DN69D	01NE21SB171		8/24/01	SX	3.5	NR*	none		
DN69E	01NE21SS171		8/24/01	SX	3.5	NR*	none		
DN69F	01NE21SS172		8/24/01	SX	3.5	NR*	none		
DN69G	01NE21SS173		8/24/01	SX	3.5	NR*	none		
DN69H	01NE21SD113		8/24/01	SX	3.5	NR*	none		
DN69I	01NE21SD114		8/24/01	SX	3.5	NR*	none		

SDG: DN70
Date Rec'd: 8/28/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
BTEX									
DN70A	01NE21SB170		8/24/01	SX	5.0	NR*	none		
DN70B	01NE21SS170		8/24/01	SX	5.0	NR*	none		
DN70C	01NE24SD114	Primary Sample	8/24/01	SX	5.0	NR*	none		
DN70D	01NE21SD113		8/24/01	SX	5.0	NR*	none		
DN70E	01NE24SD214	QC Dup of 01NE24SD114	8/24/01	SX	5.0	NR*	none		
DN70F	01NE21SB169		8/24/01	SX	5.0	NR*	none		
DN70G	01NE21SB171		8/24/01	SX	5.0	NR*	none		
DN70H	01NE21SS172		8/24/01	SX	5.0	NR*	none		
DN70I	01NE21SD114		8/24/01	SX	5.0	NR*	none		
DN70J	01NE21SS173		8/24/01	SX	5.0	NR*	none		
DN70K	01NE24SD115		8/24/01	SX	5.0	NR*	none		
DN70L	01NE00TB109	Trip Blank	8/24/01	SX	5.0	NR*	none		
Gasoline Range Organics									
DN70A	01NE21SB170		8/24/01	SX	5.0	NR*	none		
DN70B	01NE21SS170		8/24/01	SX	5.0	NR*	none		
DN70C	01NE24SD114	Primary Sample	8/24/01	SX	5.0	NR*	none		
DN70D	01NE21SD113		8/24/01	SX	5.0	NR*	none		
DN70E	01NE24SD214	QC Dup of 01NE24SD114	8/24/01	SX	5.0	NR*	none		
DN70F	01NE21SB169		8/24/01	SX	5.0	NR*	none		
DN70G	01NE21SB171		8/24/01	SX	5.0	NR*	none		
DN70H	01NE21SS172		8/24/01	SX	5.0	NR*	none		
DN70I	01NE21SD114		8/24/01	SX	5.0	NR*	none		
DN70J	01NE21SS173		8/24/01	SX	5.0	NR*	none		
DN70K	01NE24SD115		8/24/01	SX	5.0	NR*	none		
DN70L	01NE00TB109	Trip Blank	8/24/01	SX	5.0	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN71

Date Rec'd: 8/28/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
BTEX									
DN71A	01NE09SW112		8/26/01	WX	1.5	NR*	none		
Diesel / Residual Range Organics									
DN71A	01NE09SW112		8/26/01	WX	1.5	NR*	none		
DN71B	01NE09WP102		8/26/01	WX	1.5	NR*	none		
DN71C	01NE06SW116		8/26/01	WX	1.5	NR*	none		
DN71D	01NE09MW103		8/26/01	WX	1.5	NR*	none		
DN71D-RE	01NE09MW103		8/26/01	WX	1.5	NR*	none		
DN71E	01NE09SW111		8/26/01	WX	2.5	NR*	none		
DN71F	01NE24SW114	Primary Sample	8/24/01	WX	6.5	NR*	none		
DN71G	01NE24SW214	QC Dup of 01NE24SW114	8/24/01	WX	6.5	NR*	none		
DN71H	01NE03WP102		8/25/01	WX	3.5	NR*	none		
DN71I	01NE03WP103		8/25/01	WX	3.5	NR*	none		
DN71J	01NE03WP104		8/25/01	WX	3.5	NR*	none		
DN71M	01NE21SW113	Primary Sample	8/24/01	WX	4.5	NR*	none		
DN71N	01NE21SW213	QC Dup of 01NE21SW113	8/24/01	WX	4.5	NR*	none		
DN71P	01NE09SW110		8/25/01	WX	3.0	NR*	none		
Gasoline Range Organics									
DN71A	01NE09SW112		8/26/01	WX	1.5	NR*	none		
DN71Q	01NE09WP102		8/26/01	WX	3.0	NR*	none		
DN71R	01NE09MW103		8/26/01	WX	3.0	NR*	none		
DN71S	01NE00TB116	Trip Blank	8/26/01	WX	3.0	NR*	none		
DN71T	01NE09SW111		8/26/01	WX	1.5	NR*	none		
Polychlorinated Biphenyls									
DN71A	01NE09SW112		8/26/01	WX	1.5	NR*	none		
DN71B	01NE09WP102		8/26/01	WX	1.5	NR*	none		
DN71D	01NE09MW103		8/26/01	WX	1.5	NR*	none		
DN71E	01NE09SW111		8/26/01	WX	2.5	NR*	none		
DN71F	01NE24SW114	Primary Sample	8/24/01	WX	6.5	NR*	none		
DN71G	01NE24SW214	QC Dup of 01NE24SW114	8/24/01	WX	6.5	NR*	none		
DN71M	01NE21SW113	Primary Sample	8/24/01	WX	4.5	NR*	none		
DN71P	01NE09SW110		8/25/01	WX	3.0	NR*	none		
Polynuclear Aromatic Hydrocarbons									
DN71A	01NE09SW112		8/26/01	WX	1.5	NR*	none		
DN71B	01NE09WP102		8/26/01	WX	1.5	NR*	none		
DN71D	01NE09MW103		8/26/01	WX	1.5	NR*	none		
DN71E	01NE09SW111		8/26/01	WX	2.5	NR*	none		
DN71P	01NE09SW110		8/25/01	WX	3.0	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN71
Date Rec'd: 8/28/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Total Metals									
DN71A	01NE09SW112		8/26/01	WX	1.5	NR*	J/UJ	L	t
DN71B	01NE09WP102		8/26/01	WX	1.5	NR*	J/UJ	L	t
DN71D	01NE09MW103		8/26/01	WX	1.5	NR*	J/UJ	L	t
DN71E	01NE09SW111		8/26/01	WX	2.5	NR*	none		
DN71K	01NE31SW101		8/24/01	WX	3.5	NR*	none		
DN71L	01NE31SW102		8/24/01	WX	3.5	NR*	none		
DN71O	01NE21SW114		8/24/01	WX	4.5	NR*	none		
DN71P	01NE09SW110		8/25/01	WX	3.0	NR*	none		
Volatile Organics									
DN71A	01NE09SW112		8/26/01	WX	1.5	NR*	none		
DN71Q	01NE09WP102		8/26/01	WX	3.0	NR*	none		
DN71R	01NE09MW103		8/26/01	WX	3.0	NR*	none		
DN71S	01NE00TB116	Trip Blank	8/26/01	WX	3.0	NR*	none		
DN71T	01NE09SW111		8/26/01	WX	1.5	NR*	none		

SDG: DN73
Date Rec'd: 8/28/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
BTEX									
DN73C	01NE06WP103		8/25/01	WX	6.0	NR*	none		
DN73D	01NE31SW101		8/24/01	WX	6.0	NR*	none		
DN73E	01NE31SW102		8/24/01	WX	6.0	NR*	none		
DN73I	01NE00TB115	Trip Blank	8/24/01	WX	6.0	NR*	none		
DN73L	01NE24SW114	Primary Sample	8/24/01	WX	4.5	NR*	none		
Diesel / Residual Range Organics									
DN73A	01NE30WP101		8/25/01	WX	6.0	NR*	none		
DN73A-RE	01NE30WP101		8/25/01	WX	6.0	NR*	none		
DN73C	01NE06WP103		8/25/01	WX	4.0	NR*	none		
DN73C-RE	01NE06WP103		8/25/01	WX	4.0	NR*	none		
DN73D	01NE31SW101		8/24/01	WX	4.5	NR*	none		
DN73D-RE	01NE31SW101		8/24/01	WX	4.5	NR*	none		
DN73E	01NE31SW102		8/24/01	WX	4.5	NR*	none		
DN73E-RE	01NE31SW102		8/24/01	WX	4.5	NR*	none		
DN73F	01NE04WP104		8/25/01	WX	6.0	NR*	none		
DN73F-RE	01NE04WP104		8/25/01	WX	6.0	NR*	none		
DN73G	01NE04WP102		8/25/01	WX	4.0	NR*	none		
DN73G-RE	01NE04WP102		8/25/01	WX	4.0	NR*	none		
DN73H	01NE04WP103		8/25/01	WX	4.0	NR*	none		
DN73H-RE	01NE04WP103		8/25/01	WX	4.0	NR*	none		
DN73M	01NE21SW114		8/21/01	WX	4.5	NR*	none		
DN73M-RE	01NE21SW114		8/21/01	WX	4.5	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN73

Date Rec'd: 8/28/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Gasoline Range Organics									
DN73A	01NE30WP101		8/25/01	WX	6.0	NR*	none		
DN73B	01NE09SW110		8/25/01	WX	6.0	NR*	none		
DN73C	01NE06WP103		8/25/01	WX	6.0	NR*	none		
DN73D	01NE31SW101		8/24/01	WX	6.0	NR*	none		
DN73E	01NE31SW102		8/24/01	WX	6.0	NR*	none		
DN73I	01NE00TB115	Trip Blank	8/24/01	WX	6.0	NR*	none		
DN73J	01NE21SW113	Primary Sample	8/24/01	WX	4.5	NR*	none		
DN73L	01NE24SW114	Primary Sample	8/24/01	WX	4.5	NR*	none		
DN73M	01NE21SW114		8/21/01	WX	4.5	NR*	none		
DN73N	01NE21SW213	QC Dup of 01NE21SW113	8/24/01	WX	4.5	NR*	none		
DN73O	01NE00TB113	Trip Blank	8/24/01	WX	4.5	NR*	none		
Polychlorinated Biphenyls									
DN73C	01NE06WP103		8/25/01	WX	4.0	NR*	none		
DN73M	01NE21SW114		8/21/01	WX	4.5	NR*	none		
Polynuclear Aromatic Hydrocarbons									
DN73A	01NE30WP101		8/25/01	WX	6.0	NR*	none		
DN73D	01NE31SW101		8/24/01	WX	4.5	NR*	none		
DN73E	01NE31SW102		8/24/01	WX	4.5	NR*	none		
Total Metals									
DN73A	01NE30WP101		8/25/01	WX	6.0	NR*	none		
DN73C	01NE06WP103		8/25/01	WX	4.0	NR*	none		
DN73J	01NE21SW113	Primary Sample	8/24/01	WX	4.5	NR*	none		
DN73K	01NE24SW214	QC Dup of 01NE24SW114	8/24/01	WX	4.5	NR*	none		
DN73L	01NE24SW114	Primary Sample	8/24/01	WX	4.5	NR*	none		
Volatile Organics									
DN73A	01NE30WP101		8/25/01	WX	6.0	NR*	none		
DN73B	01NE09SW110		8/25/01	WX	6.0	NR*	none		
DN73I	01NE00TB115	Trip Blank	8/24/01	WX	6.0	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN76

Date Rec'd: 8/28/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Diesel / Residual Range Organics									
DN76D	01NE09SD107		8/23/01	SX	5.8	5	none		
DN76E	01NE09SD108		8/23/01	SX	5.8	5	none		
DN76F	01NE30SS101	Primary Sample	8/24/01	SX	4.5	NR*	none		
DN76G	01NE30SD101		8/24/01	SX	4.5	NR*	none		
DN76H	01NE30SS103		8/24/01	SX	4.5	NR*	none		
DN76I	01NE30SS102		8/24/01	SX	4.5	NR*	none		
DN76J	01NE09SD109		8/24/01	SX	4.5	NR*	none		
DN76K	01NE09SD213	QC Dup of 01NE09SD113	8/24/01	SX	4.5	NR*	none		
DN76L	01NE24SD114	Primary Sample	8/24/01	SX	4.5	NR*	none		
DN76M	01NE24SD115		8/24/01	SX	4.5	NR*	none		
DN76N	01NE32SS105		8/24/01	SX	4.5	NR*	none		
DN76P	01NE09SD113	Primary Sample	8/24/01	SX	4.5	NR*	none		
General Chemistry									
DN76P	01NE09SD113	Primary Sample	8/24/01	SX	4.5	NR*	none		
Organochlorine Pesticides / PCBs									
DN76N	01NE32SS105		8/24/01	SX	4.5	NR*	none		
Polychlorinated Biphenyls									
DN76A	01NE16SS165	Primary Sample	8/23/01	SX	5.8	5	none		
DN76C	01NE16SS166		8/23/01	SX	5.8	5	none		
DN76D	01NE09SD107		8/23/01	SX	5.8	5	none		
DN76E	01NE09SD108		8/23/01	SX	5.8	5	none		
DN76J	01NE09SD109		8/24/01	SX	4.5	NR*	none		
DN76K	01NE09SD213	QC Dup of 01NE09SD113	8/24/01	SX	4.5	NR*	none		
DN76L	01NE24SD114	Primary Sample	8/24/01	SX	4.5	NR*	none		
DN76M	01NE24SD115		8/24/01	SX	4.5	NR*	none		
DN76P	01NE09SD113	Primary Sample	8/24/01	SX	4.5	NR*	none		
Polynuclear Aromatic Hydrocarbons									
DN76D	01NE09SD107		8/23/01	SX	5.8	5	none		
DN76E	01NE09SD108		8/23/01	SX	5.8	5	none		
DN76E-RE	01NE09SD108		8/23/01	SX	5.8	5	none		
DN76F	01NE30SS101	Primary Sample	8/24/01	SX	4.5	NR*	none		
DN76G	01NE30SD101		8/24/01	SX	4.5	NR*	none		
DN76H	01NE30SS103		8/24/01	SX	4.5	NR*	none		
DN76H-RE	01NE30SS103		8/24/01	SX	4.5	NR*	none		
DN76I	01NE30SS102		8/24/01	SX	4.5	NR*	none		
DN76J	01NE09SD109		8/24/01	SX	4.5	NR*	none		
DN76K	01NE09SD213	QC Dup of 01NE09SD113	8/24/01	SX	4.5	NR*	none		
DN76P	01NE09SD113	Primary Sample	8/24/01	SX	4.5	NR*	none		
DN76P-RE	01NE09SD113	Primary Sample	8/24/01	SX	4.5	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN76
Date Rec'd: 8/28/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Total Metals									
DN76A	01NE16SS165	Primary Sample	8/23/01	SX	5.8	5	none		
DN76B	01NE16SS265	QC Dup of 01NE16SS165	8/23/01	SX	5.8	5	none		
DN76C	01NE16SS166		8/23/01	SX	5.8	5	none		
DN76D	01NE09SD107		8/23/01	SX	5.8	5	none		
DN76E	01NE09SD108		8/23/01	SX	5.8	5	none		
DN76F	01NE30SS101	Primary Sample	8/24/01	SX	4.5	NR*	none		
DN76G	01NE30SD101		8/24/01	SX	4.5	NR*	none		
DN76H	01NE30SS103		8/24/01	SX	4.5	NR*	none		
DN76I	01NE30SS102		8/24/01	SX	4.5	NR*	none		
DN76J	01NE09SD109		8/24/01	SX	4.5	NR*	none		
DN76K	01NE09SD213	QC Dup of 01NE09SD113	8/24/01	SX	4.5	NR*	none		
DN76L	01NE24SD114	Primary Sample	8/24/01	SX	4.5	NR*	none		
DN76M	01NE24SD115		8/24/01	SX	4.5	NR*	none		
DN76O	01NE30SS201	QC Dup of 01NE30SS101	8/24/01	SX	4.5	NR*	none		
DN76P	01NE09SD113	Primary Sample	8/24/01	SX	4.5	NR*	none		

SDG: DN78
Date Rec'd: 8/28/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Diesel / Residual Range Organics									
DN78A	01NE31SS105	Primary Sample	8/23/01	SX	5.8	5	none		
DN78B	01NE31SS205	QC Dup of 01NE31SS105	8/23/01	SX	5.8	5	none		
DN78C	01NE31SS106		8/23/01	SX	5.8	5	none		
DN78D	01NE31SS107		8/23/01	SX	5.8	5	none		
DN78E	01NE31SS108		8/23/01	SX	5.8	5	none		
DN78F	01NE31SS109		8/23/01	SX	5.8	5	none		
DN78G	01NE31SS110		8/23/01	SX	5.8	5	none		
DN78H	01NE31SS111		8/23/01	SX	5.8	5	none		
DN78I	01NE31SS112		8/23/01	SX	5.8	5	none		
DN78J	01NE31SS113		8/23/01	SX	5.8	5	none		
DN78K	01NE31SS114		8/23/01	SX	5.8	5	none		
DN78L	01NE31SS115		8/23/01	SX	5.8	5	none		
DN78M	01NE31SS116		8/23/01	SX	5.8	5	none		
DN78N	01NE31SS117		8/23/01	SX	5.8	5	none		
DN78O	01NE31SS118		8/23/01	SX	5.8	5	none		
DN78P	01NE31SS119		8/23/01	SX	5.8	5	none		
DN78Q	01NE31SS120	Primary Sample	8/23/01	SX	5.8	5	none		
DN78R	01NE31SS220	QC Dup of 01NE31SS120	8/23/01	SX	5.8	5	none		
DN78S	01NE31SS125		8/23/01	SX	5.8	5	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DY36
Date Rec'd: 8/28/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Total Metals									
DY36A	01NE09SD107		8/23/01	SX	5.8	NR*	none		
DY36B	01NE09SD108		8/23/01	SX	5.8	NR*	none		
DY36C	01NE30SS101	Primary Sample	8/24/01	SX	4.5	NR*	none		
DY36D	01NE30SD101		8/24/01	SX	4.5	NR*	none		
DY36E	01NE30SS103		8/24/01	SX	4.5	NR*	none		
DY36F	01NE30SS102		8/24/01	SX	4.5	NR*	none		
DY36G	01NE09SD109		8/24/01	SX	4.5	NR*	none		
DY36H	01NE09SD213	QC Dup of 01NE09SD113	8/24/01	SX	4.5	NR*	none		
DY36I	01NE24SD114	Primary Sample	8/24/01	SX	4.5	NR*	none		
DY36J	01NE24SD115		8/24/01	SX	4.5	NR*	none		
DY36K	01NE30SS201	QC Dup of 01NE30SS101	8/24/01	SX	4.5	NR*	none		
DY36L	01NE09SD113	Primary Sample	8/24/01	SX	4.5	NR*	none		

SDG: DY38
Date Rec'd: 8/28/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Total Metals									
DY38A	01NE21SS169	Primary Sample	8/24/01	SX	2.5	NR*	none		
DY38B	01NE21SS269	QC Dup of 01NE21SS169	8/24/01	SX	2.5	NR*	none		
DY38C	01NE09SD114		8/24/01	SX	4.5	NR*	none		

SDG: DY39
Date Rec'd: 8/28/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Total Metals									
DY39A	01NE21SB169		8/24/01	SX	3.5	NR*	none		
DY39B	01NE21SB170		8/24/01	SX	3.5	NR*	none		
DY39C	01NE21SS170		8/24/01	SX	3.5	NR*	none		
DY39D	01NE21SB171		8/24/01	SX	3.5	NR*	none		
DY39E	01NE21SS171		8/24/01	SX	3.5	NR*	none		
DY39F	01NE21SS172		8/24/01	SX	3.5	NR*	none		
DY39G	01NE21SS173		8/24/01	SX	3.5	NR*	none		
DY39H	01NE21SD113		8/24/01	SX	3.5	NR*	none		
DY39I	01NE21SD114		8/24/01	SX	3.5	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DN88

Date Rec'd: 8/29/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Diesel / Residual Range Organics									
DN88A	01NE07WP102	Primary Sample	8/27/01	WX	5.0	NR*	none		
DN88C	01NE30WP102		8/28/01	WX	4.0	NR*	none		
DN88D	01NE06WP102		8/27/01	WX	4.0	NR*	none		
DN88E	01NE07WP101		8/28/01	WX	1.5	NR*	none		
DN88F	01NE07WP103		8/27/01	WX	2.0	NR*	none		
Gasoline Range Organics									
DN88A	01NE07WP102	Primary Sample	8/27/01	WX	4.0	NR*	none		
DN88C	01NE30WP102		8/28/01	WX	4.0	NR*	none		
DN88F	01NE07WP103		8/27/01	WX	4.0	NR*	none		
DN88G	01NE07WP101		8/26/01	WX	4.0	NR*	none		
DN88H	01NE00TB118	Trip Blank	8/27/01	WX	4.0	NR*	none		
Polychlorinated Biphenyls									
DN88A	01NE07WP102	Primary Sample	8/27/01	WX	5.0	NR*	none		
DN88E	01NE07WP101		8/28/01	WX	1.5	NR*	none		
DN88F	01NE07WP103		8/27/01	WX	2.0	NR*	none		
Polynuclear Aromatic Hydrocarbons									
DN88A	01NE07WP102	Primary Sample	8/27/01	WX	5.0	NR*	none		
DN88B	01NE07WP202	QC Dup of 01NE07WP102	8/27/01	WX	5.0	NR*	none		
DN88C	01NE30WP102		8/28/01	WX	4.0	NR*	none		
DN88E	01NE07WP101		8/28/01	WX	1.5	NR*	none		
DN88F	01NE07WP103		8/27/01	WX	2.0	NR*	none		
Total Metals									
DN88A	01NE07WP102	Primary Sample	8/27/01	WX	5.0	NR*	none		
DN88C	01NE30WP102		8/28/01	WX	4.0	NR*	none		
DN88E	01NE07WP101		8/28/01	WX	1.5	NR*	J/UJ	L	t
DN88F	01NE07WP103		8/27/01	WX	2.0	NR*	none		
Volatile Organics									
DN88A	01NE07WP102	Primary Sample	8/27/01	WX	4.0	NR*	none		
DN88B	01NE07WP202	QC Dup of 01NE07WP102	8/27/01	WX	4.0	NR*	none		
DN88C	01NE30WP102		8/28/01	WX	4.0	NR*	none		
DN88F	01NE07WP103		8/27/01	WX	4.0	NR*	none		
DN88G	01NE07WP101		8/26/01	WX	4.0	NR*	none		
DN88H	01NE00TB118	Trip Blank	8/27/01	WX	4.0	NR*	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: ARI (Primary Laboratory)

SDG: DQ74

Date Rec'd: 9/27/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Organochlorine Pesticides / PCBs									
DQ74A	01NE16SS167		9/24/01	SX	4.0	NR*	none		
DQ74B	01NE16SS168		9/24/01	SX	4.0	NR*	none		
DQ74B-DL	01NE16SS168		9/24/01	SX	4.0	NR*	none		
DQ74C	01NE28SD183		9/24/01	SX	4.0	NR*	none		
DQ74C-DL	01NE28SD183		9/24/01	SX	4.0	NR*	none		
DQ74D	01NE28SD184		9/24/01	SX	4.0	NR*	none		
DQ74E	01NE28SD185	Primary Sample	9/24/01	SX	4.0	NR*	none		
DQ74E-DL	01NE28SD185	Primary Sample	9/24/01	SX	4.0	NR*	none		
DQ74F	01NE28SD186		9/24/01	SX	4.0	NR*	none		
DQ74F-DL	01NE28SD186		9/24/01	SX	4.0	NR*	none		
DQ74G	01NE28SD187		9/24/01	SX	4.0	NR*	none		
DQ74H	01NE28SD188		9/24/01	SX	4.0	NR*	none		
DQ74I	01NE28SD189		9/24/01	SX	4.0	NR*	none		
DQ74J	01NE28SD190		9/24/01	SX	4.0	NR*	none		
DQ74K	01NE28SD191		9/24/01	SX	4.0	NR*	none		
DQ74L	01NE28SD192	Primary Sample	9/24/01	SX	4.0	NR*	none		
DQ74M	01NE28SD292	QC Dup of 01NE28SD192	9/24/01	SX	4.0	NR*	none		
DQ74N	01NE28SD285	QC Dup of 01NE28SD185	9/24/01	SX	4.0	NR*	none		
DQ74N-DL	01NE28SD285	QC Dup of 01NE28SD185	9/24/01	SX	4.0	NR*	none		

Laboratory: SAS (Referee Laboratory)

SDG: 99805

Date Rec'd: 7/27/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
BTEX									
99805-01	01NE35GW301	QA Dup of 01NE35GW101	7/25/01	WX	8.7	8.3	J/UJ	L	t
99805-02	01NE35TB302	Trip Blank	7/25/01	WX	8.7	8.3	J/UJ	L	t
Diesel Range Organics									
99805-01	01NE35GW301	QA Dup of 01NE35GW101	7/25/01	WX	8.7	8.3	J/UJ	L	t
Gasoline Range Organics									
99805-01	01NE35GW301	QA Dup of 01NE35GW101	7/25/01	WX	8.7	8.3	none		
99805-02	01NE35TB302	Trip Blank	7/25/01	WX	8.7	8.3	none		
Residual Range Organics									
99805-01	01NE35GW301	QA Dup of 01NE35GW101	7/25/01	WX	8.7	8.3	J/UJ	L	t

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: SAS (Referee Laboratory)

SDG: 100302

Date Rec'd: 8/21/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Diesel Range Organics									
100302-01	01NE06TP301	QA Dup of 01NE06TP101	8/18/01	SX	1.9	3.6	none		
100302-02	01NE28SD311	QA Dup of 01NE28SD111	8/18/01	SX	1.9	3.6	none		
100302-03	01NE28SD325	QA Dup of 01NE28SD125	8/18/01	SX	1.9	3.6	none		
100302-04	01NE28SD351	QA Dup of 01NE28SD151	8/19/01	SX	1.9	3.6	none		
100302-05	01NE28SD353	QA Dup of 01NE28SD153	8/19/01	SX	1.9	3.6	none		
100302-06	01NE28SD357	QA Dup of 01NE28SD157	8/19/01	SX	1.9	3.6	none		
100302-07	01NE28SW311	QA Dup of 01NE28SW111	8/18/01	WX	1.7	2	none		
100302-08	01NE28SD339	QA Dup of 01NE28SD139	8/19/01	SX	1.9	3.6	none		
100302L04	01NE28SD351	QA Dup of 01NE28SD151	8/19/01	SX	1.9	3.6	none		
100302L05	01NE28SD353	QA Dup of 01NE28SD153	8/19/01	SX	1.9	3.6	none		
Polychlorinated Biphenyls									
100302-02	01NE28SD311	QA Dup of 01NE28SD111	8/18/01	SX	1.9	3.6	none		
100302-03	01NE28SD325	QA Dup of 01NE28SD125	8/18/01	SX	1.9	3.6	none		
100302-04	01NE28SD351	QA Dup of 01NE28SD151	8/19/01	SX	1.9	3.6	none		
100302-05	01NE28SD353	QA Dup of 01NE28SD153	8/19/01	SX	1.9	3.6	none		
100302-06	01NE28SD357	QA Dup of 01NE28SD157	8/19/01	SX	1.9	3.6	none		
100302-07	01NE28SW311	QA Dup of 01NE28SW111	8/18/01	WX	1.7	2	none		
100302-08	01NE28SD339	QA Dup of 01NE28SD139	8/19/01	SX	1.9	3.6	none		
Polynuclear Aromatic Hydrocarbons									
100302-02	01NE28SD311	QA Dup of 01NE28SD111	8/18/01	SX	1.9	3.6	none		
100302-03	01NE28SD325	QA Dup of 01NE28SD125	8/18/01	SX	1.9	3.6	none		
100302-04	01NE28SD351	QA Dup of 01NE28SD151	8/19/01	SX	1.9	3.6	none		
100302-05	01NE28SD353	QA Dup of 01NE28SD153	8/19/01	SX	1.9	3.6	none		
100302-06	01NE28SD357	QA Dup of 01NE28SD157	8/19/01	SX	1.9	3.6	none		
100302-08	01NE28SD339	QA Dup of 01NE28SD139	8/19/01	SX	1.9	3.6	none		
100302L03	01NE28SD325	QA Dup of 01NE28SD125	8/18/01	SX	1.9	3.6	none		
100302L04	01NE28SD351	QA Dup of 01NE28SD151	8/19/01	SX	1.9	3.6	none		
Residual Range Organics									
100302-01	01NE06TP301	QA Dup of 01NE06TP101	8/18/01	SX	1.9	3.6	none		
100302-02	01NE28SD311	QA Dup of 01NE28SD111	8/18/01	SX	1.9	3.6	none		
100302-03	01NE28SD325	QA Dup of 01NE28SD125	8/18/01	SX	1.9	3.6	none		
100302-04	01NE28SD351	QA Dup of 01NE28SD151	8/19/01	SX	1.9	3.6	none		
100302-05	01NE28SD353	QA Dup of 01NE28SD153	8/19/01	SX	1.9	3.6	none		
100302-06	01NE28SD357	QA Dup of 01NE28SD157	8/19/01	SX	1.9	3.6	none		
100302-07	01NE28SW311	QA Dup of 01NE28SW111	8/18/01	WX	1.7	2	none		
100302-08	01NE28SD339	QA Dup of 01NE28SD139	8/19/01	SX	1.9	3.6	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: SAS (Referee Laboratory)

SDG: 100302
Date Rec'd: 8/21/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Total Metals									
100302-02	01NE28SD311	QA Dup of 01NE28SD111	8/18/01	SX	1.9	3.6	none		
100302-03	01NE28SD325	QA Dup of 01NE28SD125	8/18/01	SX	1.9	3.6	none		
100302-04	01NE28SD351	QA Dup of 01NE28SD151	8/19/01	SX	1.9	3.6	none		
100302-05	01NE28SD353	QA Dup of 01NE28SD153	8/19/01	SX	1.9	3.6	none		
100302-06	01NE28SD357	QA Dup of 01NE28SD157	8/19/01	SX	1.9	3.6	none		
100302-08	01NE28SD339	QA Dup of 01NE28SD139	8/19/01	SX	1.9	3.6	none		

SDG: 100413
Date Rec'd: 8/24/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
BTEX									
100413-06	01NE29SW317	QA Dup of 01NE29SW117	8/20/01	WX	2.3	4.5	none		
100413-07	01NE00TB107	Trip Blank	8/20/01	WX	2.3	4.5	none		
Diesel Range Organics									
100413-01	01NE29SD325	QA Dup of 01NE29SD125	8/21/01	SX	4.1	4.6	none		
100413-02	01NE28SD375	QA Dup of 01NE28SD175	8/20/01	SX	4.1	4.6	none		
100413-03	01NE28SD371	QA Dup of 01NE28SD171	8/20/01	SX	4.1	4.6	none		
100413-04	01NE28SD363	QA Dup of 01NE28SD163	8/20/01	SX	4.1	4.6	none		
100413-05	01NE29SD314	QA Dup of 01NE29SD114	8/21/01	SX	4.1	4.6	none		
100413-06	01NE29SW317	QA Dup of 01NE29SW117	8/20/01	WX	2.3	4.5	none		
100413L04	01NE28SD363	QA Dup of 01NE28SD163	8/20/01	SX	4.1	4.6	none		
Gasoline Range Organics									
100413-06	01NE29SW317	QA Dup of 01NE29SW117	8/20/01	WX	2.3	4.5	none		
100413-07	01NE00TB107	Trip Blank	8/20/01	WX	2.3	4.5	none		
Polychlorinated Biphenyls									
100413-01	01NE29SD325	QA Dup of 01NE29SD125	8/21/01	SX	4.1	4.6	none		
100413-02	01NE28SD375	QA Dup of 01NE28SD175	8/20/01	SX	4.1	4.6	none		
100413-03	01NE28SD371	QA Dup of 01NE28SD171	8/20/01	SX	4.1	4.6	none		
100413-04	01NE28SD363	QA Dup of 01NE28SD163	8/20/01	SX	4.1	4.6	none		
100413-05	01NE29SD314	QA Dup of 01NE29SD114	8/21/01	SX	4.1	4.6	none		
100413-06	01NE29SW317	QA Dup of 01NE29SW117	8/20/01	WX	2.3	4.5	none		
Polynuclear Aromatic Hydrocarbons									
100413-01	01NE29SD325	QA Dup of 01NE29SD125	8/21/01	SX	4.1	4.6	none		
100413-02	01NE28SD375	QA Dup of 01NE28SD175	8/20/01	SX	4.1	4.6	none		
100413-03	01NE28SD371	QA Dup of 01NE28SD171	8/20/01	SX	4.1	4.6	none		
100413-04	01NE28SD363	QA Dup of 01NE28SD163	8/20/01	SX	4.1	4.6	none		
100413-05	01NE29SD314	QA Dup of 01NE29SD114	8/21/01	SX	4.1	4.6	none		
100413-06	01NE29SW317	QA Dup of 01NE29SW117	8/20/01	WX	2.3	4.5	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: SAS (Referee Laboratory)

SDG: 100413
Date Rec'd: 8/24/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Residual Range Organics									
100413-01	01NE29SD325	QA Dup of 01NE29SD125	8/21/01	SX	4.1	4.6	none		
100413-02	01NE28SD375	QA Dup of 01NE28SD175	8/20/01	SX	4.1	4.6	none		
100413-03	01NE28SD371	QA Dup of 01NE28SD171	8/20/01	SX	4.1	4.6	none		
100413-04	01NE28SD363	QA Dup of 01NE28SD163	8/20/01	SX	4.1	4.6	none		
100413-05	01NE29SD314	QA Dup of 01NE29SD114	8/21/01	SX	4.1	4.6	none		
100413-06	01NE29SW317	QA Dup of 01NE29SW117	8/20/01	WX	2.3	4.5	none		
100413L04	01NE28SD363	QA Dup of 01NE28SD163	8/20/01	SX	4.1	4.6	none		
Total Metals									
100413-01	01NE29SD325	QA Dup of 01NE29SD125	8/21/01	SX	4.1	4.6	none		
100413-02	01NE28SD375	QA Dup of 01NE28SD175	8/20/01	SX	4.1	4.6	none		
100413-03	01NE28SD371	QA Dup of 01NE28SD171	8/20/01	SX	4.1	4.6	none		
100413-04	01NE28SD363	QA Dup of 01NE28SD163	8/20/01	SX	4.1	4.6	none		
100413-05	01NE29SD314	QA Dup of 01NE29SD114	8/21/01	SX	4.1	4.6	none		
100413-06	01NE29SW317	QA Dup of 01NE29SW117	8/20/01	WX	2.3	4.5	none		

SDG: 100418
Date Rec'd: 8/27/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Diesel Range Organics									
100418-02	01NE09SW307	QA Dup of 01NE09SW107	8/23/01	WX	2.9	2.6	none		
Gasoline Range Organics									
100418-02	01NE09SW307	QA Dup of 01NE09SW107	8/23/01	WX	4.5	4.4	none		
100418-03	01NE00TB110	Trip Blank	8/23/01	WX	4.5	4.4	none		
Polychlorinated Biphenyls									
100418-02	01NE09SW307	QA Dup of 01NE09SW107	8/23/01	WX	2.9	2.6	none		
Polynuclear Aromatic Hydrocarbons									
100418-02	01NE09SW307	QA Dup of 01NE09SW107	8/23/01	WX	2.9	2.6	none		
Residual Range Organics									
100418-02	01NE09SW307	QA Dup of 01NE09SW107	8/23/01	WX	2.9	2.6	none		
Semivolatile Organics									
100418-01	01NE16GW301	QA Dup of 01NE16GW101	8/23/01	WX	4.5	4.4	none		
Total Metals									
100418-02	01NE09SW307	QA Dup of 01NE09SW107	8/23/01	WX	4.5	4.4	none		
Volatile Organics									
100418-02	01NE09SW307	QA Dup of 01NE09SW107	8/23/01	WX	4.5	4.4	none		
100418-03	01NE00TB110	Trip Blank	8/23/01	WX	4.5	4.4	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: SAS (Referee Laboratory)

SDG: 100492

Date Rec'd: 8/28/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
BTEX									
100492-02	01NE21SW313	QA Dup of 01NESW113	8/24/01	WX	3.9	2.8	none		
100492-03	01NE00TB112	Trip Blank	8/24/01	WX	3.9	2.8	none		
100492-04	01NE21SS369	QA Dup of 01NE21SS169	8/24/01	SX	NR*	5.5	none		
100492-07	01NE24SD314	QA Dup of 01NE24SD114	8/24/01	SX	NR*	5.5	none		
100492-11	01NE31SS321	QA Dup of 01NE31SS121	8/24/01	SX	NR*	5.5	none		
100492-14	01NE00TB106	Trip Blank	8/23/01	SX	NR*	5.5	none		
Diesel Range Organics									
100492-01	01NE24SW314	QA Dup of 01NE24SW114	8/24/01	WX	3.9	2.8	none		
100492-02	01NE21SW313	QA Dup of 01NESW113	8/24/01	WX	3.9	2.8	none		
100492-04	01NE21SS369	QA Dup of 01NE21SS169	8/24/01	SX	NR*	5.5	none		
100492-05	01NE31SS320	QA Dup of 01NE31SS120	8/23/01	SX	NR*	5.5	none		
100492-06	01NE31SS305	QA Dup of 01NE31SS105	8/24/01	SX	NR*	5.5	none		
100492-11	01NE31SS321	QA Dup of 01NE31SS121	8/24/01	SX	NR*	5.5	none		
100492-13	01NE09SD313	QA Dup of 01NE09SD113	8/24/01	SX	NR*	5.5	none		
Gasoline Range Organics									
100492-02	01NE21SW313	QA Dup of 01NESW113	8/24/01	WX	3.9	2.8	none		
100492-03	01NE00TB112	Trip Blank	8/24/01	WX	3.9	2.8	none		
100492-04	01NE21SS369	QA Dup of 01NE21SS169	8/24/01	SX	NR*	5.5	none		
100492-07	01NE24SD314	QA Dup of 01NE24SD114	8/24/01	SX	NR*	5.5	none		
100492-11	01NE31SS321	QA Dup of 01NE31SS121	8/24/01	SX	NR*	5.5	none		
100492-14	01NE00TB106	Trip Blank	8/23/01	SX	NR*	5.5	none		
Organochlorine Pesticides									
100492-10	01NE31SS302	QA Dup of 01NE31SS102	8/24/01	SX	NR*	5.5	none		
Polychlorinated Biphenyls									
100492-01	01NE24SW314	QA Dup of 01NE24SW114	8/24/01	WX	3.9	2.8	none		
100492-04	01NE21SS369	QA Dup of 01NE21SS169	8/24/01	SX	NR*	5.5	none		
100492-10	01NE31SS302	QA Dup of 01NE31SS102	8/24/01	SX	NR*	5.5	none		
100492-12	01NE14SS303	QA Dup of 01NE14SS103	8/24/01	SX	NR*	5.5	none		
100492-13	01NE09SD313	QA Dup of 01NE09SD113	8/24/01	SX	NR*	5.5	none		
Polynuclear Aromatic Hydrocarbons									
100492-13	01NE09SD313	QA Dup of 01NE09SD113	8/24/01	SX	NR*	5.5	none		
Residual Range Organics									
100492-01	01NE24SW314	QA Dup of 01NE24SW114	8/24/01	WX	3.9	2.8	none		
100492-02	01NE21SW313	QA Dup of 01NESW113	8/24/01	WX	3.9	2.8	none		
100492-04	01NE21SS369	QA Dup of 01NE21SS169	8/24/01	SX	NR*	5.5	none		
100492-05	01NE31SS320	QA Dup of 01NE31SS120	8/23/01	SX	NR*	5.5	none		
100492-06	01NE31SS305	QA Dup of 01NE31SS105	8/24/01	SX	NR*	5.5	none		
100492-11	01NE31SS321	QA Dup of 01NE31SS121	8/24/01	SX	NR*	5.5	none		
100492-13	01NE09SD313	QA Dup of 01NE09SD113	8/24/01	SX	NR*	5.5	none		
100492L05	01NE31SS320	QA Dup of 01NE31SS120	8/23/01	SX	3.9	2.8	none		

Table 1 - Samples List

NE Cape HTRW - St. Lawrence Island

Laboratory: SAS (Referee Laboratory)

SDG: 100492
Date Rec'd: 8/28/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Total Metals									
100492-01	01NE24SW314	QA Dup of 01NE24SW114	8/24/01	WX	3.9	2.8	none		
100492-04	01NE21SS369	QA Dup of 01NE21SS169	8/24/01	SX	NR*	5.5	none		
100492-08	01NE16SS365	QA Dup of 01NE16SS165	8/23/01	SX	NR*	5.5	none		
100492-09	01NE30SS301	QA Dup of 01NE30SS101	8/24/01	SX	NR*	5.5	none		
100492-13	01NE09SD313	QA Dup of 01NE09SD113	8/24/01	SX	NR*	5.5	none		
Volatile Organics									
100492-13	01NE09SD313	QA Dup of 01NE09SD113	8/24/01	SX	NR*	5.5	none		

SDG: 100553
Date Rec'd: 8/30/01

Lab ID	Field ID	Field QC ID	Date Collected	Matrix	Temp Blank °C:	Cooler °C:	Q [1]	Bias	RC
Polynuclear Aromatic Hydrocarbons									
100553-01	01NE07WP302	QA Dup of 01NE07WP102	8/27/01	WX	3.2	4	none		
Volatile Organics									
100553-01	01NE07WP302	QA Dup of 01NE07WP102	8/27/01	WX	3.2	4	none		
100553-02	01NE00TB117	Trip Blank	8/27/01	WX	3.2	4	none		

[1] If both a temperature blank and cooler temperature are recorded, the temperature blank will be considered most valid; if there is a significant discrepancy between the cooler temperature and the temperature blank, (> 5° C), the most extreme temperature will be used to qualify data for all associated samples - if the temperature is > 6° C, for all target analytes except metals and soil AK101, flag all associated detected and non-detected results as estimated (J/UJ); for metals in water matrix only, if the temperature is < 2° C, flag all associated detected and non-detected results as estimated (J/UJ)

* NR = Not Reported

Table 2 - Sampling and Analysis Discrepancies / Deficiencies

Laboratory: SAS

SDG: 100302

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
All applicable	01NE28SD339	All applicable	Sample in cooler but not requested on CoC - lab added per MW 8/22/01

SDG: 100413

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
All applicable	01NE00TB107	All applicable	Time collected in EDF and hardcopy shown as "0700", CoC and sample tracker shown as "1900"
VOA	01NE00TB107	All applicable	3 of 3 vials had bubbles
BTEX	01NE29SW317	All applicable	CoC requested SW8260; lab analyzed for SW8021B
All applicable	01NE28SD314	All applicable	Field ID on HC and EDF (01NE28SD314) do not match CoC and sample tracker (01NE29SD314)
All applicable	01NE29SW317	All applicable	Time collected in EDF and hardcopy shown as "0750", CoC and sample tracker shown as "1950"

SDG: 100418

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
SVOA	01NE16GW301	3-&4-methylphenol	Not in EDFs

SDG: 100492

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
All applicable	All applicable	All applicable	Cooler Receipt Forms not completely filled out
Low-level VOA	01NE09SD313	All applicable	CoC requested low-level VOA analysis - lab did not analyze for low-level. Sample tracker does not show analysis for low-level
All applicable	01NE21SS369, 01NE31SS320, 01NE31SS305, 01NE24SD314, 01NE16SS365, 01NE30SS301, 01NE31SS302, 01NE31SS321 01NE14SS303, 01NE09SD313 & 01NE00TB106	All applicable	Temperature blank not recorded on cooler receipt form
Total Metals	01NE24SW314	nickel	Results for SW6020 in EDF; hardcopy shows results for only SW6010
Total Metals	01NE16SS365	lead	CoC requested SW7421; lab analyzed by SW6020

Table 2 - Sampling and Analysis Discrepancies / Deficiencies

Laboratory: SAS

SDG: 100492

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
GRO & VOA	01NE00TB112	All applicable	Time collected in EDF and hardcopy shown as "0700", CoC and sample tracker shown as "1900"

SDG: 100553

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
VOA	01NE00TB117	All applicable	3 of 3 vials had bubbles

SDG: All applicable

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
All applicable	All applicable	All applicable	Prep methods not reported on hardcopy
All applicable	All applicable	All applicable	Dilution factors reported on hardcopy do not match EDF

Table 2 - Sampling and Analysis Discrepancies / Deficiencies

Laboratory: ARI

SDG: All applicable

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
VOA	All applicable	All applicable	Dilution factors not reported on hardcopy
All applicable	All applicable	All applicable	MS/MSD - RPD and LCS limits not reported on hardcopy
Metals	All applicable	All applicable	Dilution factors not reported on hardcopy
Metals	Water matrix	All applicable	Units on hardcopy reported in mg/L; EDF reported in µg/L

SDG: DN03

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
PAH	All applicable	All applicable	Field IDs not reported on hardcopy
All applicable	All applicable	All applicable	Questions #14 and #16 not answered on all cooler receipt forms
GRO & VOA	DN03H, DN03I, DN03J	All applicable	Field ID "O1NE07SW104", "O1NE00TB102", & O1NE07SW105 should begin with "0" and not "O"

SDG: DN04

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
All applicable	All applicable	All applicable	"RE" and/or "DL" not added to sample IDs in EDF where applicable
TOC	Most samples	total organic carbon	Dilution factors in EDF do not match hardcopy - rounding issue
DRO	01NE28SD125	All applicable	Not in EDF
DRO/RRO	01NE28SD122	All applicable	Run number in EDF entered as '1", hardcopy indicates to be a rerun "2"
DRO	01NE28SD125	All applicable	Not entered in EDF

SDG: DN05

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
All applicable	All applicable	All applicable	"RE" and/or "DL" not added to sample IDs in EDF where applicable
PAH	01NE28SD157	acenaphthene	Result reported on hardcopy as "200 Y"; EDF reported as "ND" (PQL = 68)
PCB	01NE28SD153	aroclor 1221	PQL reported on hardcopy as"94"; EDF reported as "93"

Table 2 - Sampling and Analysis Discrepancies / Deficiencies

Laboratory: ARI

SDG: DN06

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
All applicable	All applicable	All applicable	"RE" and/or "DL" not added to sample IDs in EDF where applicable
All applicable	01NE28SD251	All applicable	All container labels shown as "01NE28SD251"and CoC shown as "01NE28SD252"; lab logged in as "01NE28SD251"
PCB	01NE28SD150	aroclor 1221	PQL reported on hardcopy as"94"; EDF reported as "93"
PAH	01NE28SD239	acenaphthene	Result reported on hardcopy as "8.6"; EDF reported as "ND" (PQL = 4.8)

SDG: DN07

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
All applicable	All applicable	All applicable	Labels for 01NE07S"D"...125, 126, 127 for metals; lab used 01NE07S"S" per rest of the samples
All applicable	All applicable	All applicable	"RE" and/or "DL" not added to sample IDs in EDF where applicable
TOC	01NE28SD113 & 01NE28SD114	total organic carbon	Dilution factors in EDF do not match hardcopy - rounding issue
PCB	01NE28SD111	All applicable	RL reported on HC do not match EDF
PCB	01NE28SD115	aroclor 1221	RL reported on HC do not match EDF
PCB	01NE07SS127 (DL)	All applicable	Dilution factor reported as "20" on hardcopy - reported as "1" in EDF
All applicable	All applicable	All applicable	"RE" and/or "DL" not added to sample IDs in EDF where applicable

SDG: DN36

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
VOA	01NE00TB103	All applicable	2 VOAs contained pea-size air bubbles - tagged and instructed to use VOA w/o bubble
Metals	01NE29SW114	potassium	Result reported on hardcopy as "700" - EDF reported as "680"
Metals	01NE29SW116	potassium	Result reported on hardcopy as "700" - EDF reported as "740"
Metals	01NE29SW217	potassium	Result reported on hardcopy as "1100" - EDF reported as "1120"
Metals	01NE29SW117	potassium	Result reported on hardcopy as "900" - EDF reported as "890"
All applicable	01NE29SW116	All applicable	Date and time collected does not match sample tracker (1010) - CoC, hardcopy, & EDF agree (1335)
Metals	01NE29SW114	All applicable	Bottles received at lab; however, was not requested on CoC - lab analyzed per MW 8/24/01

Table 2 - Sampling and Analysis Discrepancies / Deficiencies

Laboratory: ARI

SDG: DN38

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
PCB	01NE28SD165, 01NE28SD167, 01NE28SD169 & 01NE28SD170	aroclor 1260	Results reported in EDF do not match hardcopy
PAH	01NE28SD165	All applicable	Missing hardcopy results - no indication that sample was analyzed (see surrogate summary) - results reported in EDF

SDG: DN39

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
Metals	01NE28SD173	All applicable	Time collected not indicated on jar label
PCB	01NE28SD173	All applicable	Time collected on jar label shown as "1030" - CoC shown as "1035"
PCB	01NE28SD172	All applicable	Time collected on jar label shown as "1130" - CoC shown as "1030"
TOC	Most samples	total organic carbon	Dilution factors in EDF do not match hardcopy - rounding issue
All applicable	All applicable	All applicable	"RE" and/or "DL" not added to sample IDs in EDF where applicable

SDG: DN40

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
PCB	01NE29SD124 & 01NE29SD124-RE	aroclor 1221	Reporting limit in EDF does not match hardcopy
All applicable	All applicable	All applicable	"RE" not added to sample IDs in EDF where applicable
PAH	01NE29SD120	All applicable	Results not reported in EDF
BTEX	All applicable	All applicable	Dilution factors not reported on hardcopy
PCB	01NE29SD125	All applicable	Missing hardcopy results
PAH	01NE29SD123	All applicable	Two sets of results reported on hardcopy; does not appear to be DL or RE. Reported dates are different (9/10/01 & 10/4/01)
PCB	01NE29SD126 Dilution2	All applicable	Hardcopy sample ID indicates that this sample is a dilution; however, sample was not diluted but appears to be a RE
TOC	All applicable	TOC	Dilution factors not reported on hardcopy
PCB	All re-extracts	All applicable	Date extracted in EDF does not match hardcopy

Table 2 - Sampling and Analysis Discrepancies / Deficiencies

Laboratory: ARI

SDG: DN53

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
Metals	All applicable	All applicable	Containers received at lab for CoC #40 and CoC #46; however, analysis not requested on CoC
RSK175	All applicable	All applicable	Analysis requested on CoC #46; not reported on hardcopy and EDF
GRO & VOA	TRIP BLANK	All applicable	Not requested on CoC; reported on hardcopy and EDF
All applicable	All applicable	All applicable	"RE" not added to sample IDs in EDF where applicable
GRO & VOA	01NE00TB108	All applicable	3 of 3 vials had air bubbles < pea size

SDG: DN55

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
All applicable	All applicable	All applicable	"RE" and/or "DL" not added to sample IDs in EDF where applicable
PCB	01NE33SS103	aroclor 1221	Reporting limit in EDF does not match hardcopy
PAH	01NE34SS101 (RE)	All applicable	Matrix missing on hardcopy
All applicable	All applicable	All applicable	"RE" and/or "DL" not added to sample IDs in EDF where applicable

SDG: DN68

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
All applicable	All applicable	All applicable	"RE" and/or "DL" not added to sample IDs in EDF where applicable
BTEX & GRO	All applicable	All applicable	Dilution factors not reported on hardcopy
BTEX & GRO	01NE09SS171	All applicable	Analyses not indicated on CoC
All applicable	01NE31SS202	All applicable	Sample tracker ID shown as "01NE31SS302"
All applicable	All applicable	All applicable	"RE" and/or "DL" not added to sample IDs in EDF where applicable

SDG: DN69

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
All applicable	All applicable	All applicable	"DL" not added to sample IDs in EDF where applicable
BTEX	01NE31SS121	toluene	Result reported on hardcopy does not match EDF - rounding issue

Table 2 - Sampling and Analysis Discrepancies / Deficiencies

Laboratory: ARI

SDG: DN69

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
All applicable	All applicable	All applicable	"DL" not added to sample IDs in EDF where applicable

SDG: DN70

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
BTEX & GRO	01NE00TB109	All applicable	Not recorded on sample tracker

SDG: DN71

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
GRO & VOA	01NE00TB116 & 01NE09MW103	All applicable	All 3 vials have 6-8mm pea-size bubbles
All applicable	All applicable	All applicable	"RE" not added to sample IDs in EDF where applicable
Metals	Most samples	potassium	Results reported on hardcopy do not match EDF
DRO/RRO	All applicable	All applicable	"RE" not added to sample IDs in EDF where applicable
PCBs	01NE24SW114	All applicable	One bottle label shown as "01NE24SD114"; time collected as "830" - CoC shown as "01NE24SW114"
PCBs	01NE24SW214	All applicable	Two bottle labels shown as "01NE24SD214"; time collected as "835" - CoC shown as "01NE24SW214"
GRO	01NE09SW112	surrogates	Recoveries reported on hardcopy do not match EDF

SDG: DN73

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
DRO	01NE04WP103	All applicable	Bottle label ID shown as "01NEWP104"; time matches
GRO & Metals	01NE21SW113	All applicable	Time collected in EDF as "1900"; CoC shown as "1440"
All applicable	All applicable	All applicable	"RE" not added to sample IDs in EDF where applicable
GRO/BTEX (AK101)	01NE06WP103, 01NE31SW101, 01NE31SW102, 01NE00TB115, 01NE24SW114	trifluorotoluene & bromobenzene	Surrogate recoveries for GRO not in EDF, only BTEX surrogate recoveries entered in EDF- both entered as AK101
Metals	01NE24SW114	potassium	Results entered in EDF as "650"; hardcopy shown as "600"
DRO	01NE04WP104	All applicable	CoC indicates analysis for DRO; lab analyzed for DRO and RRO

Table 2 - Sampling and Analysis Discrepancies / Deficiencies

Laboratory: ARI

SDG: DN76

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
Pb	All applicable	All applicable	CoC shows method as SW7421; lab analyzed by method SW6010B
PCBs	01NE09SD109	aroclor 1242 & aroclor 1254	Reporting limits in EDF do not match hardcopy
PCBs	01NE09SD107	aroclor 1221	Reporting limit in EDF does not match hardcopy
All applicable	01NE09SD213	All applicable	Time (0845) incorrect in EDF; should be "0835"
PCBs	01NE09SD213	All applicable	PAH and metals bottle labels indicate ID as "01NE09SD214", time "835"
All applicable	All applicable	All applicable	"RE" not added to sample IDs in EDF where applicable

SDG: DN88

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
GRO	01NE00TB118	All applicable	GRO analysis not requested on CoC
GRO & Voa	01NE00TB118	All applicable	Contained air bubbles
GRO & Voa	01NE07WP102	All applicable	Shown as "01NEO7WP102" in EDF and hardcopy; shown on CoC as "01NE07WP102"

SDG: DQ74

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
All applicable	All applicable	All applicable	"DL" not added to sample IDs in EDF where applicable
PEST	All applicable	All applicable	IDs begin with "O1" in EDF and hardcopy; shown as "01" on CoC and sample tracker
All applicable	All IDs	All applicable	All IDs on Coc "0"1NE...; hardcopy and EDF shown as "O"1NE...

SDG: DY36

Analysis Type	Affected Samples	Affected Analytes	Discrepancy / Deficiency
Metals	01NE24SD115	All applicable	Not shown on tracker; sample 01NE24SD116 shown as same time collected (930)
Metals	01NE09SD213	All applicable	Time collected on sample tracker shown as "835"; shown as "0845" on CoC

Table 3 - Rejected Data

Due to severe analytical deficiencies, the following nondetected results are rejected:

Analysis Type: Total Metals

Labcode: ARI

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
DN40E	01NE29SD128	SX	antimony	< 7	mg/Kg	UR	L	c
DN40F	01NE29SD129	SX	antimony	< 5	mg/Kg	UR	L	c
DN40M	01NE29SD127	SX	antimony	< 7	mg/Kg	UR	L	c
DN40N	01NE29SD126	SX	antimony	< 10	mg/Kg	UR	L	c

Table 4 - Sample Condition Qualifications (p,t)

Due to sample condition deficiencies, the following results are qualified as estimated:

Analysis Type: ***BTEX***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
100413-07	01NE00TB107	WX	benzene	<	0.0005	mg/L	UJ	L	p
			ethylbenzene	<	0.001	mg/L	UJ	L	p
			m,p-xylene	<	0.002	mg/L	UJ	L	p
			o-xylene	<	0.001	mg/L	UJ	L	p
			toluene	<	0.001	mg/L	UJ	L	p
99805-01	01NE35GW301	WX	benzene	<	0.4	µg/L	UJ	L	t
			ethylbenzene	<	0.4	µg/L	UJ	L	t
			m,p-xylene	<	0.8	µg/L	UJ	L	t
			o-xylene	<	0.4	µg/L	UJ	L	t
			toluene	<	0.4	µg/L	UJ	L	t
99805-02	01NE35TB302	WX	benzene	<	0.4	µg/L	UJ	L	t
			ethylbenzene	<	0.4	µg/L	UJ	L	t
			m,p-xylene	<	0.8	µg/L	UJ	L	t
			o-xylene	<	0.4	µg/L	UJ	L	t
			toluene	<	0.4	µg/L	UJ	L	t

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Diesel / Residual Range Organics***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN71F	01NE24SW114	WX	diesel range organics	<	0.25	mg/L	UJ	L	t
			motor oil	<	0.5	mg/L	UJ	L	t
DN71G	01NE24SW214	WX	diesel range organics	<	0.25	mg/L	UJ	L	t
			motor oil	<	0.5	mg/L	UJ	L	t

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Diesel Range Organics***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
99805-01	01NE35GW301	WX	diesel range organics	0.11	mg/L	J	L	t

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Gasoline Range Organics***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
99805-01	01NE35GW301	WX	gasoline range organics	<	0.05	mg/L	UJ	L	t
99805-02	01NE35TB302	WX	gasoline range organics	<	0.05	mg/L	UJ	L	t

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Residual Range Organics***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
99805-01	01NE35GW301	WX	residual range organics	0.15	mg/L	J	L	t

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Total Metals***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN03J	01NE07SW105	WX	aluminum		240	µg/L	J	L	t
			antimony	<	50	µg/L	UJ	L	t
			arsenic	<	1	µg/L	UJ	L	t
			barium		12	µg/L	J	L	t
			beryllium	<	1	µg/L	UJ	L	t
			cadmium	<	2	µg/L	UJ	L	t
			calcium		4990	µg/L	J	L	t
			chromium	<	5	µg/L	UJ	L	t
			cobalt	<	3	µg/L	UJ	L	t
			copper		2	µg/L	J	L	t
			iron		3660	µg/L	J	L	t
			lead		2	µg/L	J	L	t
			magnesium		1440	µg/L	J	L	t
			manganese		96	µg/L	J	L	t
			mercury	<	0.1	µg/L	UJ	L	t
			nickel	<	10	µg/L	UJ	L	t
			potassium	<	500	µg/L	UJ	L	t
			selenium	<	2	µg/L	UJ	L	t
			silver	<	3	µg/L	UJ	L	t
			sodium		4720	µg/L	J	L	t
			thallium	<	1	µg/L	UJ	L	t
			vanadium	<	3	µg/L	UJ	L	t
			zinc		19	µg/L	J	L	t

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Total Metals***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN53A	01NE09SW109	WX	aluminum		100	µg/L	J	L	t
			antimony	<	50	µg/L	UJ	L	t
			arsenic	<	1	µg/L	UJ	L	t
			barium		20	µg/L	J	L	t
			beryllium	<	1	µg/L	UJ	L	t
			cadmium	<	2	µg/L	UJ	L	t
			calcium		2950	µg/L	J	L	t
			chromium	<	5	µg/L	UJ	L	t
			cobalt	<	3	µg/L	UJ	L	t
			copper		4	µg/L	J	L	t
			iron		1150	µg/L	J	L	t
			lead		6	µg/L	J	L	t
			magnesium		820	µg/L	J	L	t
			manganese		12	µg/L	J	L	t
			mercury	<	0.1	µg/L	UJ	L	t
			nickel	<	10	µg/L	UJ	L	t
			potassium	<	500	µg/L	UJ	L	t
			selenium	<	2	µg/L	UJ	L	t
			silver	<	3	µg/L	UJ	L	t
			sodium		4040	µg/L	J	L	t
			thallium	<	1	µg/L	UJ	L	t
			vanadium	<	3	µg/L	UJ	L	t
			zinc		60	µg/L	J	L	t

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Total Metals***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN71A	01NE09SW112	WX	aluminum		40	µg/L	J	L	t
			antimony	<	50	µg/L	UJ	L	t
			arsenic	<	1	µg/L	UJ	L	t
			barium		5	µg/L	J	L	t
			beryllium	<	1	µg/L	UJ	L	t
			cadmium	<	2	µg/L	UJ	L	t
			calcium		1750	µg/L	J	L	t
			chromium	<	5	µg/L	UJ	L	t
			cobalt	<	3	µg/L	UJ	L	t
			copper	<	2	µg/L	UJ	L	t
			iron		200	µg/L	J	L	t
			lead	<	1	µg/L	UJ	L	t
			magnesium		860	µg/L	J	L	t
			manganese		12	µg/L	J	L	t
			mercury	<	0.1	µg/L	UJ	L	t
			nickel	<	10	µg/L	UJ	L	t
			potassium		500	µg/L	J	L	t
			selenium	<	2	µg/L	UJ	L	t
			silver	<	3	µg/L	UJ	L	t
			sodium		4290	µg/L	J	L	t
			thallium	<	1	µg/L	UJ	L	t
			vanadium	<	3	µg/L	UJ	L	t
			zinc	<	6	µg/L	UJ	L	t

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Total Metals***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN71B	01NE09WP102	WX	aluminum		48900	µg/L	J	L	t
			antimony	<	50	µg/L	UJ	L	t
			arsenic		12	µg/L	J	L	t
			barium		271	µg/L	J	L	t
			beryllium		4	µg/L	J	L	t
			cadmium		2	µg/L	J	L	t
			calcium		7970	µg/L	J	L	t
			chromium		75	µg/L	J	L	t
			cobalt		12	µg/L	J	L	t
			copper		46	µg/L	J	L	t
			iron		77300	µg/L	J	L	t
			lead		56	µg/L	J	L	t
			magnesium		8570	µg/L	J	L	t
			manganese		326	µg/L	J	L	t
			mercury		0.2	µg/L	J	L	t
			nickel		110	µg/L	J	L	t
			potassium		3000	µg/L	J	L	t
			selenium	<	2	µg/L	UJ	L	t
			silver	<	3	µg/L	UJ	L	t
			sodium		9090	µg/L	J	L	t
			thallium	<	1	µg/L	UJ	L	t
			vanadium		97	µg/L	J	L	t
			zinc		419	µg/L	J	L	t

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Total Metals***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN71D	01NE09MW103	WX	aluminum		164000	µg/L	J	L	t
			antimony		120	µg/L	J	L	t
			arsenic	<	5	µg/L	UJ	L	t
			barium		1160	µg/L	J	L	t
			beryllium		14	µg/L	J	L	t
			cadmium		4	µg/L	J	L	t
			calcium		58600	µg/L	J	L	t
			chromium		99	µg/L	J	L	t
			cobalt		37	µg/L	J	L	t
			copper		68	µg/L	J	L	t
			iron		322000	µg/L	J	L	t
			lead		300	µg/L	J	L	t
			magnesium		38900	µg/L	J	L	t
			manganese		2240	µg/L	J	L	t
			mercury		0.4	µg/L	J	L	t
			nickel		80	µg/L	J	L	t
			potassium		16400	µg/L	J	L	t
			selenium	<	10	µg/L	UJ	L	t
			silver	<	3	µg/L	UJ	L	t
			sodium		46900	µg/L	J	L	t
			thallium	<	5	µg/L	UJ	L	t
			vanadium		149	µg/L	J	L	t
			zinc		512	µg/L	J	L	t

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Total Metals***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN88E	01NE07WP101	WX	aluminum		10600	µg/L	J	L	t
			antimony	<	50	µg/L	UJ	L	t
			arsenic		10	µg/L	J	L	t
			barium		126	µg/L	J	L	t
			beryllium	<	1	µg/L	UJ	L	t
			cadmium	<	2	µg/L	UJ	L	t
			calcium		7570	µg/L	J	L	t
			chromium		255	µg/L	J	L	t
			cobalt		64	µg/L	J	L	t
			copper		67	µg/L	J	L	t
			iron		47100	µg/L	J	L	t
			lead		40	µg/L	J	L	t
			magnesium		3770	µg/L	J	L	t
			manganese		593	µg/L	J	L	t
			mercury		0.2	µg/L	J	L	t
			nickel		3540	µg/L	J	L	t
			potassium		5300	µg/L	J	L	t
			selenium	<	2	µg/L	UJ	L	t
			silver	<	3	µg/L	UJ	L	t
			sodium		8480	µg/L	J	L	t
			thallium	<	1	µg/L	UJ	L	t
			vanadium		79	µg/L	J	L	t
			zinc		2470	µg/L	J	L	t

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Volatile Organics***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN53N	01NE00TB108	WX	1,1,1,2-tetrachloroethane	<	1	µg/L	UJ	L	p
			1,1,1-trichloroethane	<	1	µg/L	UJ	L	p
			1,1,2,2-tetrachloroethane	<	1	µg/L	UJ	L	p
			1,1,2-trichloroethane	<	1	µg/L	UJ	L	p
			1,1-dichloroethane	<	1	µg/L	UJ	L	p
			1,1-dichloroethene	<	1	µg/L	UJ	L	p
			1,1-dichloropropene	<	1	µg/L	UJ	L	p
			1,2,3-trichlorobenzene	<	5	µg/L	UJ	L	p
			1,2,3-trichloropropane	<	3	µg/L	UJ	L	p
			1,2,4-trichlorobenzene	<	5	µg/L	UJ	L	p
			1,2,4-trimethylbenzene	<	1	µg/L	UJ	L	p
			1,2-dibromo-3-chloropropane	<	5	µg/L	UJ	L	p
			1,2-dichlorobenzene	<	1	µg/L	UJ	L	p
			1,2-dichloroethane	<	1	µg/L	UJ	L	p
			1,2-dichloropropane	<	1	µg/L	UJ	L	p
			1,3,5-trimethylbenzene	<	1	µg/L	UJ	L	p
			1,3-dichlorobenzene	<	1	µg/L	UJ	L	p
			1,3-dichloropropane	<	1	µg/L	UJ	L	p
			1,4-dichlorobenzene	<	1	µg/L	UJ	L	p
			112trichloro122trifluoroethane	<	2	µg/L	UJ	L	p
			2,2-dichloropropane	<	1	µg/L	UJ	L	p
			2-butanone	<	5	µg/L	UJ	L	p
			2-chloroethylvinyl ether	<	5	µg/L	UJ	L	p
			2-chlorotoluene	<	1	µg/L	UJ	L	p
			2-hexanone	<	5	µg/L	UJ	L	p
			4-chlorotoluene	<	1	µg/L	UJ	L	p
			4-isopropyltoluene	<	1	µg/L	UJ	L	p
			4-methyl-2-pentanone	<	5	µg/L	UJ	L	p
			acetone	<	5	µg/L	UJ	L	p
			acrolein	<	50	µg/L	UJ	L	p
			acrylonitrile	<	1	µg/L	UJ	L	p
			benzene	<	1	µg/L	UJ	L	p
			bromobenzene	<	1	µg/L	UJ	L	p
			bromochloromethane	<	1	µg/L	UJ	L	p
			bromodichloromethane	<	1	µg/L	UJ	L	p
			bromoethane	<	2	µg/L	UJ	L	p
			bromoform	<	1	µg/L	UJ	L	p
			bromomethane	<	1	µg/L	UJ	L	p
			carbon disulfide	<	1	µg/L	UJ	L	p
			carbon tetrachloride	<	1	µg/L	UJ	L	p
			chlorobenzene	<	1	µg/L	UJ	L	p
			chloroethane	<	1	µg/L	UJ	L	p

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Volatile Organics***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN53N	01NE00TB108	WX	chloroform	<	1	µg/L	UJ	L	p
			chloromethane	<	1	µg/L	UJ	L	p
			cis-1,2-dichloroethene	<	1	µg/L	UJ	L	p
			cis-1,3-dichloropropene	<	1	µg/L	UJ	L	p
			dibromochloromethane	<	1	µg/L	UJ	L	p
			dibromomethane	<	1	µg/L	UJ	L	p
			ethylbenzene	<	1	µg/L	UJ	L	p
			ethylene dibromide	<	1	µg/L	UJ	L	p
			hexachlorobutadiene	<	5	µg/L	UJ	L	p
			isopropylbenzene	<	1	µg/L	UJ	L	p
			m,p-xylene	<	1	µg/L	UJ	L	p
			methyl iodide	<	1	µg/L	UJ	L	p
			methylene chloride	<	2	µg/L	UJ	L	p
			n-butylbenzene	<	1	µg/L	UJ	L	p
			n-propylbenzene	<	1	µg/L	UJ	L	p
			naphthalene	<	5	µg/L	UJ	L	p
			o-xylene	<	1	µg/L	UJ	L	p
			sec-butylbenzene	<	1	µg/L	UJ	L	p
			styrene	<	1	µg/L	UJ	L	p
			tert-butylbenzene	<	1	µg/L	UJ	L	p
			tetrachloroethylene	<	1	µg/L	UJ	L	p
			toluene	<	1	µg/L	UJ	L	p
			trans-1,2-dichloroethene	<	1	µg/L	UJ	L	p
			trans-1,3-dichloropropene	<	1	µg/L	UJ	L	p
			trans-1,4-dichloro-2-butene	<	5	µg/L	UJ	L	p
			trichloroethene	<	1	µg/L	UJ	L	p
			trichlorofluoromethane	<	1	µg/L	UJ	L	p
			vinyl acetate	<	5	µg/L	UJ	L	p
			vinyl chloride	<	1	µg/L	UJ	L	p

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Volatile Organics***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN71R	01NE09MW103	WX	1,1,1,2-tetrachloroethane	<	1	µg/L	UJ	L	p
			1,1,1-trichloroethane	<	1	µg/L	UJ	L	p
			1,1,2,2-tetrachloroethane	<	1	µg/L	UJ	L	p
			1,1,2-trichloroethane	<	1	µg/L	UJ	L	p
			1,1-dichloroethane	<	1	µg/L	UJ	L	p
			1,1-dichloroethene	<	1	µg/L	UJ	L	p
			1,1-dichloropropene	<	1	µg/L	UJ	L	p
			1,2,3-trichlorobenzene	<	5	µg/L	UJ	L	p
			1,2,3-trichloropropane	<	3	µg/L	UJ	L	p
			1,2,4-trichlorobenzene	<	5	µg/L	UJ	L	p
			1,2,4-trimethylbenzene	<	1	µg/L	UJ	L	p
			1,2-dibromo-3-chloropropane	<	5	µg/L	UJ	L	p
			1,2-dichlorobenzene	<	1	µg/L	UJ	L	p
			1,2-dichloroethane	<	1	µg/L	UJ	L	p
			1,2-dichloropropane	<	1	µg/L	UJ	L	p
			1,3,5-trimethylbenzene	<	1	µg/L	UJ	L	p
			1,3-dichlorobenzene	<	1	µg/L	UJ	L	p
			1,3-dichloropropane	<	1	µg/L	UJ	L	p
			1,4-dichlorobenzene	<	1	µg/L	UJ	L	p
			112trichloro122trifluoroethane	<	2	µg/L	UJ	L	p
			2,2-dichloropropane	<	1	µg/L	UJ	L	p
			2-butanone	<	5	µg/L	UJ	L	p
			2-chloroethylvinyl ether	<	5	µg/L	UJ	L	p
			2-chlorotoluene	<	1	µg/L	UJ	L	p
			2-hexanone	<	5	µg/L	UJ	L	p
			4-chlorotoluene	<	1	µg/L	UJ	L	p
			4-isopropyltoluene	<	1	µg/L	UJ	L	p
			4-methyl-2-pentanone	<	5	µg/L	UJ	L	p
			acetone	<	5	µg/L	UJ	L	p
			acrolein	<	50	µg/L	UJ	L	p
			acrylonitrile	<	1	µg/L	UJ	L	p
			benzene	<	1	µg/L	UJ	L	p
			bromobenzene	<	1	µg/L	UJ	L	p
			bromochloromethane	<	1	µg/L	UJ	L	p
			bromodichloromethane	<	1	µg/L	UJ	L	p
			bromoethane	<	2	µg/L	UJ	L	p
			bromoform	<	1	µg/L	UJ	L	p
			bromomethane	<	1	µg/L	UJ	L	p
			carbon disulfide	<	1	µg/L	UJ	L	p
			carbon tetrachloride	<	1	µg/L	UJ	L	p
			chlorobenzene	<	1	µg/L	UJ	L	p
			chloroethane	<	1	µg/L	UJ	L	p

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Volatile Organics***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN71R	01NE09MW103	WX	chloroform	<	1	µg/L	UJ	L	p
			chloromethane	<	1	µg/L	UJ	L	p
			cis-1,2-dichloroethene	<	1	µg/L	UJ	L	p
			cis-1,3-dichloropropene	<	1	µg/L	UJ	L	p
			dibromochloromethane	<	1	µg/L	UJ	L	p
			dibromomethane	<	1	µg/L	UJ	L	p
			ethylbenzene	<	1	µg/L	UJ	L	p
			ethylene dibromide	<	1	µg/L	UJ	L	p
			hexachlorobutadiene	<	5	µg/L	UJ	L	p
			isopropylbenzene	<	1	µg/L	UJ	L	p
			m,p-xylene	<	1	µg/L	UJ	L	p
			methyl iodide	<	1	µg/L	UJ	L	p
			methylene chloride	<	2	µg/L	UJ	L	p
			n-butylbenzene	<	1	µg/L	UJ	L	p
			n-propylbenzene	<	1	µg/L	UJ	L	p
			naphthalene	<	5	µg/L	UJ	L	p
			o-xylene	<	1	µg/L	UJ	L	p
			sec-butylbenzene	<	1	µg/L	UJ	L	p
			styrene	<	1	µg/L	UJ	L	p
			tert-butylbenzene	<	1	µg/L	UJ	L	p
			tetrachloroethylene	<	1	µg/L	UJ	L	p
			toluene	<	1	µg/L	UJ	L	p
			trans-1,2-dichloroethene	<	1	µg/L	UJ	L	p
			trans-1,3-dichloropropene	<	1	µg/L	UJ	L	p
			trans-1,4-dichloro-2-butene	<	5	µg/L	UJ	L	p
			trichloroethene	<	1	µg/L	UJ	L	p
			trichlorofluoromethane	<	1	µg/L	UJ	L	p
			vinyl acetate	<	5	µg/L	UJ	L	p
			vinyl chloride	<	1	µg/L	UJ	L	p

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Volatile Organics***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN71S	01NE00TB116	WX	1,1,1,2-tetrachloroethane	<	1	µg/L	UJ	L	p
			1,1,1-trichloroethane	<	1	µg/L	UJ	L	p
			1,1,2,2-tetrachloroethane	<	1	µg/L	UJ	L	p
			1,1,2-trichloroethane	<	1	µg/L	UJ	L	p
			1,1-dichloroethane	<	1	µg/L	UJ	L	p
			1,1-dichloroethene	<	1	µg/L	UJ	L	p
			1,1-dichloropropene	<	1	µg/L	UJ	L	p
			1,2,3-trichlorobenzene	<	5	µg/L	UJ	L	p
			1,2,3-trichloropropane	<	3	µg/L	UJ	L	p
			1,2,4-trichlorobenzene	<	5	µg/L	UJ	L	p
			1,2,4-trimethylbenzene	<	1	µg/L	UJ	L	p
			1,2-dibromo-3-chloropropane	<	5	µg/L	UJ	L	p
			1,2-dichlorobenzene	<	1	µg/L	UJ	L	p
			1,2-dichloroethane	<	1	µg/L	UJ	L	p
			1,2-dichloropropane	<	1	µg/L	UJ	L	p
			1,3,5-trimethylbenzene	<	1	µg/L	UJ	L	p
			1,3-dichlorobenzene	<	1	µg/L	UJ	L	p
			1,3-dichloropropane	<	1	µg/L	UJ	L	p
			1,4-dichlorobenzene	<	1	µg/L	UJ	L	p
			112trichloro122trifluoroethane	<	2	µg/L	UJ	L	p
			2,2-dichloropropane	<	1	µg/L	UJ	L	p
			2-butanone	<	5	µg/L	UJ	L	p
			2-chloroethylvinyl ether	<	5	µg/L	UJ	L	p
			2-chlorotoluene	<	1	µg/L	UJ	L	p
			2-hexanone	<	5	µg/L	UJ	L	p
			4-chlorotoluene	<	1	µg/L	UJ	L	p
			4-isopropyltoluene	<	1	µg/L	UJ	L	p
			4-methyl-2-pentanone	<	5	µg/L	UJ	L	p
			acetone	<	5	µg/L	UJ	L	p
			acrolein	<	50	µg/L	UJ	L	p
			acrylonitrile	<	1	µg/L	UJ	L	p
			benzene	<	1	µg/L	UJ	L	p
			bromobenzene	<	1	µg/L	UJ	L	p
			bromochloromethane	<	1	µg/L	UJ	L	p
			bromodichloromethane	<	1	µg/L	UJ	L	p
			bromoethane	<	2	µg/L	UJ	L	p
			bromoform	<	1	µg/L	UJ	L	p
			bromomethane	<	1	µg/L	UJ	L	p
			carbon disulfide	<	1	µg/L	UJ	L	p
			carbon tetrachloride	<	1	µg/L	UJ	L	p
			chlorobenzene	<	1	µg/L	UJ	L	p
			chloroethane	<	1	µg/L	UJ	L	p

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Volatile Organics***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN71S	01NE00TB116	WX	chloroform	<	1	µg/L	UJ	L	p
			chloromethane	<	1	µg/L	UJ	L	p
			cis-1,2-dichloroethene	<	1	µg/L	UJ	L	p
			cis-1,3-dichloropropene	<	1	µg/L	UJ	L	p
			dibromochloromethane	<	1	µg/L	UJ	L	p
			dibromomethane	<	1	µg/L	UJ	L	p
			ethylbenzene	<	1	µg/L	UJ	L	p
			ethylene dibromide	<	1	µg/L	UJ	L	p
			hexachlorobutadiene	<	5	µg/L	UJ	L	p
			isopropylbenzene	<	1	µg/L	UJ	L	p
			m,p-xylene	<	1	µg/L	UJ	L	p
			methyl iodide	<	1	µg/L	UJ	L	p
			methylene chloride	<	2	µg/L	UJ	L	p
			n-butylbenzene	<	1	µg/L	UJ	L	p
			n-propylbenzene	<	1	µg/L	UJ	L	p
			naphthalene	<	5	µg/L	UJ	L	p
			o-xylene	<	1	µg/L	UJ	L	p
			sec-butylbenzene	<	1	µg/L	UJ	L	p
			styrene	<	1	µg/L	UJ	L	p
			tert-butylbenzene	<	1	µg/L	UJ	L	p
			tetrachloroethylene	<	1	µg/L	UJ	L	p
			toluene	<	1	µg/L	UJ	L	p
			trans-1,2-dichloroethene	<	1	µg/L	UJ	L	p
			trans-1,3-dichloropropene	<	1	µg/L	UJ	L	p
			trans-1,4-dichloro-2-butene	<	5	µg/L	UJ	L	p
			trichloroethene	<	1	µg/L	UJ	L	p
			trichlorofluoromethane	<	1	µg/L	UJ	L	p
			vinyl acetate	<	5	µg/L	UJ	L	p
			vinyl chloride	<	1	µg/L	UJ	L	p

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Volatile Organics***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN88H	01NE00TB118	WX	1,1,1,2-tetrachloroethane	<	1	µg/L	UJ	L	p
			1,1,1-trichloroethane	<	1	µg/L	UJ	L	p
			1,1,2,2-tetrachloroethane	<	1	µg/L	UJ	L	p
			1,1,2-trichloroethane	<	1	µg/L	UJ	L	p
			1,1-dichloroethane	<	1	µg/L	UJ	L	p
			1,1-dichloroethene	<	1	µg/L	UJ	L	p
			1,1-dichloropropene	<	1	µg/L	UJ	L	p
			1,2,3-trichlorobenzene	<	5	µg/L	UJ	L	p
			1,2,3-trichloropropane	<	3	µg/L	UJ	L	p
			1,2,4-trichlorobenzene	<	5	µg/L	UJ	L	p
			1,2,4-trimethylbenzene	<	1	µg/L	UJ	L	p
			1,2-dibromo-3-chloropropane	<	5	µg/L	UJ	L	p
			1,2-dichlorobenzene	<	1	µg/L	UJ	L	p
			1,2-dichloroethane	<	1	µg/L	UJ	L	p
			1,2-dichloropropane	<	1	µg/L	UJ	L	p
			1,3,5-trimethylbenzene	<	1	µg/L	UJ	L	p
			1,3-dichlorobenzene	<	1	µg/L	UJ	L	p
			1,3-dichloropropane	<	1	µg/L	UJ	L	p
			1,4-dichlorobenzene	<	1	µg/L	UJ	L	p
			112trichloro122trifluoroethane	<	2	µg/L	UJ	L	p
			2,2-dichloropropane	<	1	µg/L	UJ	L	p
			2-butanone	<	5	µg/L	UJ	L	p
			2-chloroethylvinyl ether	<	5	µg/L	UJ	L	p
			2-chlorotoluene	<	1	µg/L	UJ	L	p
			2-hexanone	<	5	µg/L	UJ	L	p
			4-chlorotoluene	<	1	µg/L	UJ	L	p
			4-isopropyltoluene	<	1	µg/L	UJ	L	p
			4-methyl-2-pentanone	<	5	µg/L	UJ	L	p
			acetone	<	5	µg/L	UJ	L	p
			acrolein	<	50	µg/L	UJ	L	p
			acrylonitrile	<	1	µg/L	UJ	L	p
			benzene	<	1	µg/L	UJ	L	p
			bromobenzene	<	1	µg/L	UJ	L	p
			bromochloromethane	<	1	µg/L	UJ	L	p
			bromodichloromethane	<	1	µg/L	UJ	L	p
			bromoethane	<	2	µg/L	UJ	L	p
			bromoform	<	1	µg/L	UJ	L	p
			bromomethane	<	1	µg/L	UJ	L	p
			carbon disulfide	<	1	µg/L	UJ	L	p
			carbon tetrachloride	<	1	µg/L	UJ	L	p
			chlorobenzene	<	1	µg/L	UJ	L	p
			chloroethane	<	1	µg/L	UJ	L	p

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Volatile Organics***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN88H	01NE00TB118	WX	chloroform	<	1	µg/L	UJ	L	p
			chloromethane		3.2	µg/L	J	L	p
			cis-1,2-dichloroethene	<	1	µg/L	UJ	L	p
			cis-1,3-dichloropropene	<	1	µg/L	UJ	L	p
			dibromochloromethane	<	1	µg/L	UJ	L	p
			dibromomethane	<	1	µg/L	UJ	L	p
			ethylbenzene	<	1	µg/L	UJ	L	p
			ethylene dibromide	<	1	µg/L	UJ	L	p
			hexachlorobutadiene	<	5	µg/L	UJ	L	p
			isopropylbenzene	<	1	µg/L	UJ	L	p
			m,p-xylene	<	1	µg/L	UJ	L	p
			methyl iodide	<	1	µg/L	UJ	L	p
			methylene chloride	<	2	µg/L	UJ	L	p
			n-butylbenzene	<	1	µg/L	UJ	L	p
			n-propylbenzene	<	1	µg/L	UJ	L	p
			naphthalene	<	5	µg/L	UJ	L	p
			o-xylene	<	1	µg/L	UJ	L	p
			sec-butylbenzene	<	1	µg/L	UJ	L	p
			styrene	<	1	µg/L	UJ	L	p
			tert-butylbenzene	<	1	µg/L	UJ	L	p
			tetrachloroethylene	<	1	µg/L	UJ	L	p
			toluene	<	1	µg/L	UJ	L	p
			trans-1,2-dichloroethene	<	1	µg/L	UJ	L	p
			trans-1,3-dichloropropene	<	1	µg/L	UJ	L	p
			trans-1,4-dichloro-2-butene	<	5	µg/L	UJ	L	p
			trichloroethene	<	1	µg/L	UJ	L	p
			trichlorofluoromethane	<	1	µg/L	UJ	L	p
			vinyl acetate	<	5	µg/L	UJ	L	p
			vinyl chloride	<	1	µg/L	UJ	L	p

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Volatile Organics***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
100553-02	01NE00TB117	WX	1,1,1,2-tetrachloroethane	<	0.4	µg/L	UJ	L	p
			1,1,1-trichloroethane	<	0.4	µg/L	UJ	L	p
			1,1,2,2-tetrachloroethane	<	0.4	µg/L	UJ	L	p
			1,1,2-trichloroethane	<	0.4	µg/L	UJ	L	p
			1,1-dichloroethane	<	0.4	µg/L	UJ	L	p
			1,1-dichloroethene	<	0.4	µg/L	UJ	L	p
			1,1-dichloropropene	<	0.4	µg/L	UJ	L	p
			1,2,3-trichlorobenzene	<	0.4	µg/L	UJ	L	p
			1,2,3-trichloropropane	<	0.4	µg/L	UJ	L	p
			1,2,4-trichlorobenzene	<	0.4	µg/L	UJ	L	p
			1,2,4-trimethylbenzene	<	0.4	µg/L	UJ	L	p
			1,2-dibromo-3-chloropropane	<	0.4	µg/L	UJ	L	p
			1,2-dibromoethane	<	0.4	µg/L	UJ	L	p
			1,2-dichlorobenzene	<	0.4	µg/L	UJ	L	p
			1,2-dichloroethane	<	0.4	µg/L	UJ	L	p
			1,2-dichloropropane	<	0.4	µg/L	UJ	L	p
			1,3,5-trimethylbenzene	<	0.4	µg/L	UJ	L	p
			1,3-dichlorobenzene	<	0.4	µg/L	UJ	L	p
			1,3-dichloropropane	<	0.4	µg/L	UJ	L	p
			1,4-dichlorobenzene	<	0.4	µg/L	UJ	L	p
			2,2-dichloropropane	<	0.4	µg/L	UJ	L	p
			2-butanone	<	2	µg/L	UJ	L	p
			2-chlorotoluene	<	0.4	µg/L	UJ	L	p
			2-hexanone	<	2	µg/L	UJ	L	p
			4-chlorotoluene	<	0.4	µg/L	UJ	L	p
			4-isopropyltoluene	<	0.4	µg/L	UJ	L	p
			4-methyl-2-pentanone	<	2	µg/L	UJ	L	p
			acetone	<	2	µg/L	UJ	L	p
			benzene	<	0.4	µg/L	UJ	L	p
			bromobenzene	<	0.4	µg/L	UJ	L	p
			bromochloromethane	<	0.4	µg/L	UJ	L	p
			bromodichloromethane	<	0.4	µg/L	UJ	L	p
			bromoform	<	0.4	µg/L	UJ	L	p
			bromomethane	<	0.8	µg/L	UJ	L	p
			carbon disulfide	<	0.4	µg/L	UJ	L	p
			carbon tetrachloride	<	0.4	µg/L	UJ	L	p
			chlorobenzene	<	0.4	µg/L	UJ	L	p
			chloroethane	<	0.4	µg/L	UJ	L	p
			chloroform		0.091	µg/L	J	N	m,p
			chloromethane	<	0.4	µg/L	UJ	L	p
			cis-1,2-dichloroethene	<	0.4	µg/L	UJ	L	p
			cis-1,3-dichloropropene	<	0.4	µg/L	UJ	L	p

Table 4 - Sample Condition Qualifications (p,t)

Analysis Type: ***Volatile Organics***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
100553-02	01NE00TB117	WX	dibromochloromethane	<	0.4	µg/L	UJ	L	p
			dibromomethane	<	0.4	µg/L	UJ	L	p
			dichlorodifluoromethane	<	0.4	µg/L	UJ	L	p
			ethylbenzene	<	0.4	µg/L	UJ	L	p
			hexachlorobutadiene	<	0.4	µg/L	UJ	L	p
			isopropylbenzene	<	0.4	µg/L	UJ	L	p
			m,p-xylene	<	0.8	µg/L	UJ	L	p
			methylene chloride		0.42	µg/L	J	L	p
			n-butylbenzene	<	0.4	µg/L	UJ	L	p
			n-propylbenzene	<	0.4	µg/L	UJ	L	p
			naphthalene	<	0.4	µg/L	UJ	L	p
			o-xylene	<	0.4	µg/L	UJ	L	p
			sec-butylbenzene	<	0.4	µg/L	UJ	L	p
			styrene		0.34	µg/L	J	N	m,p
			tert-butylbenzene	<	0.4	µg/L	UJ	L	p
			tetrachloroethylene		0.24	µg/L	J	N	m,p
			toluene	<	0.4	µg/L	UJ	L	p
			trans-1,2-dichloroethene	<	0.4	µg/L	UJ	L	p
			trans-1,3-dichloropropene	<	0.4	µg/L	UJ	L	p
			trichloroethene	<	0.4	µg/L	UJ	L	p
			trichlorofluoromethane	<	0.4	µg/L	UJ	L	p
			vinyl chloride	<	0.4	µg/L	UJ	L	p

Table 5 - Holding Time Qualifications (e)

Due to holding time exceedance, the following results are qualified as estimated:

Analysis Type: Diesel / Residual Range Organics

Labcode: ARI

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DK21ARE	01NE35GW102	WX	diesel range organics		1.3	mg/L	UJ	L	e
			motor oil		2.3	mg/L	UJ	L	e
DK48ARE	01NE35GW101	WX	diesel range organics	<	0.25	mg/L	UJ	L	e
			motor oil	<	0.5	mg/L	UJ	L	e
DK48BRE	01NE35GW103	WX	diesel range organics	<	0.25	mg/L	UJ	L	e
			motor oil	<	0.5	mg/L	UJ	L	e
DK48DRE	01NE35GW201	WX	diesel range organics	<	0.25	mg/L	UJ	L	e
			motor oil	<	0.5	mg/L	UJ	L	e
DN40A-RE	01NE29SD123	SX	diesel range organics		44	mg/Kg	J	L	e
			motor oil		180	mg/Kg	J	L	e
DN40B-RE	01NE29SD124	SX	diesel range organics		1400	mg/Kg	J	L	e
			motor oil		580	mg/Kg	J	L	e
DN40C-RE	01NE29SD125	SX	diesel range organics		150	mg/Kg	J	L	e
			motor oil		790	mg/Kg	J	L	e
DN40D-RE	01NE29SD225	SX	diesel range organics		150	mg/Kg	J	L	e
			motor oil		680	mg/Kg	J	L	e
DN40E-RE	01NE29SD128	SX	diesel range organics		180	mg/Kg	J	L	e
			motor oil		1000	mg/Kg	J	L	e
DN40F-RE	01NE29SD129	SX	diesel range organics		15	mg/Kg	J	L	e
			motor oil		73	mg/Kg	J	L	e
DN40G-RE	01NE29SD120	SX	diesel range organics		47	mg/Kg	J	L	e
			motor oil		100	mg/Kg	J	L	e
DN40H-RE	01NE29SD121	SX	diesel range organics		11	mg/Kg	J	L	e
			motor oil	<	10	mg/Kg	UJ	L	e
DN40I-RE	01NE29SD122	SX	diesel range organics		37	mg/Kg	J	L	e
			motor oil		50	mg/Kg	J	L	e
DN40M-RE	01NE29SD127	SX	diesel range organics		250	mg/Kg	J	L	e
			motor oil		1100	mg/Kg	J	L	e
DN40N-RE	01NE29SD126	SX	diesel range organics		240	mg/Kg	J	L	e
			motor oil		1000	mg/Kg	J	L	e
DN53A-RE	01NE09SW109	WX	diesel range organics	<	0.25	mg/L	UJ	L	e
			motor oil	<	0.5	mg/L	UJ	L	e

Table 5 - Holding Time Qualifications (e)

Analysis Type: ***Diesel / Residual Range Organics***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN53B-RE	01NE09SW107	WX	diesel range organics	<	0.25	mg/L	UJ	L	e
			motor oil	<	0.5	mg/L	UJ	L	e
DN53F-RE	01NE09SW207	WX	diesel range organics	<	0.25	mg/L	UJ	L	e
			motor oil	<	0.5	mg/L	UJ	L	e
DN53G-RE	01NE09SW108	WX	diesel range organics	<	0.25	mg/L	UJ	L	e
			motor oil	<	0.5	mg/L	UJ	L	e
DN68F-RE	01NE09SD114	SX	diesel range organics		65	mg/Kg	J	L	b,e
			motor oil		300	mg/Kg	J	L	b,e
DN71D-RE	01NE09MW103	WX	diesel range organics	<	0.25	mg/L	UJ	L	b,e
			motor oil	<	0.5	mg/L	UJ	L	b,e
DN73A-RE	01NE30WP101	WX	diesel range organics	<	1	mg/L	UJ	L	e
			motor oil		2.5	mg/L	J	L	e
DN73C-RE	01NE06WP103	WX	diesel range organics		0.58	mg/L	J	L	e
			motor oil		1.1	mg/L	J	L	e
DN73D-RE	01NE31SW101	WX	diesel range organics	<	0.25	mg/L	UJ	L	e
			motor oil	<	0.5	mg/L	UJ	L	e
DN73E-RE	01NE31SW102	WX	diesel range organics	<	0.25	mg/L	UJ	L	e
			motor oil	<	0.5	mg/L	UJ	L	e
DN73F-RE	01NE04WP104	WX	diesel range organics		2.4	mg/L	J	L	e
			motor oil		6	mg/L	J	L	e
DN73G-RE	01NE04WP102	WX	diesel range organics	<	1	mg/L	UJ	L	e
			motor oil		2.2	mg/L	J	L	e
DN73H-RE	01NE04WP103	WX	diesel range organics	<	0.25	mg/L	UJ	L	e
			motor oil	<	0.5	mg/L	UJ	L	e
DN73M	01NE21SW114	WX	diesel range organics	<	0.25	mg/L	UJ	L	e
			motor oil	<	0.5	mg/L	UJ	L	e
DN73M-RE	01NE21SW114	WX	diesel range organics	<	0.25	mg/L	UJ	L	e
			motor oil	<	0.5	mg/L	UJ	L	e

Table 5 - Holding Time Qualifications (e)

Analysis Type: ***Gasoline Range Organics***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
DN73M	01NE21SW114	WX	gasoline range organics	< 0.25	mg/L	UJ	L	e

Table 5 - Holding Time Qualifications (e)

Analysis Type: ***Polychlorinated Biphenyls***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
DN40A-RE	01NE29SD123	SX	aroclor 1016	< 73	µg/Kg	UJ	L	e
			aroclor 1221	< 150	µg/Kg	UJ	L	e
			aroclor 1232	< 73	µg/Kg	UJ	L	e
			aroclor 1242	< 73	µg/Kg	UJ	L	e
			aroclor 1248	< 73	µg/Kg	UJ	L	e
			aroclor 1254	< 73	µg/Kg	UJ	L	e
			aroclor 1260	< 73	µg/Kg	UJ	L	e
DN40B-RE	01NE29SD124	SX	aroclor 1016	< 48	µg/Kg	UJ	L	e
			aroclor 1221	< 96	µg/Kg	UJ	L	e
			aroclor 1232	< 48	µg/Kg	UJ	L	e
			aroclor 1242	< 48	µg/Kg	UJ	L	e
			aroclor 1248	< 48	µg/Kg	UJ	L	e
			aroclor 1254	< 48	µg/Kg	UJ	L	e
			aroclor 1260	< 48	µg/Kg	UJ	L	e
DN40C-RE	01NE29SD125	SX	aroclor 1016	< 48	µg/Kg	UJ	L	e
			aroclor 1221	< 96	µg/Kg	UJ	L	e
			aroclor 1232	< 48	µg/Kg	UJ	L	e
			aroclor 1242	< 48	µg/Kg	UJ	L	e
			aroclor 1248	< 48	µg/Kg	UJ	L	e
			aroclor 1254	< 48	µg/Kg	UJ	L	e
			aroclor 1260	< 48	µg/Kg	UJ	L	e
DN40D-RE	01NE29SD225	SX	aroclor 1016	< 52	µg/Kg	UJ	L	e
			aroclor 1221	< 100	µg/Kg	UJ	L	e
			aroclor 1232	< 52	µg/Kg	UJ	L	e
			aroclor 1242	< 52	µg/Kg	UJ	L	e
			aroclor 1248	< 52	µg/Kg	UJ	L	e
			aroclor 1254	< 52	µg/Kg	UJ	L	e
			aroclor 1260	< 52	µg/Kg	UJ	L	e
DN40E-RE	01NE29SD128	SX	aroclor 1016	< 49	µg/Kg	UJ	L	e
			aroclor 1221	< 98	µg/Kg	UJ	L	e
			aroclor 1232	< 49	µg/Kg	UJ	L	e
			aroclor 1242	< 49	µg/Kg	UJ	L	e
			aroclor 1248	< 49	µg/Kg	UJ	L	e
			aroclor 1254	< 49	µg/Kg	UJ	L	e
			aroclor 1260	< 49	µg/Kg	UJ	L	e

Table 5 - Holding Time Qualifications (e)

Analysis Type: ***Polychlorinated Biphenyls***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte	Result		Units	Q	Bias	RC
DN40F-RE	01NE29SD129	SX	aroclor 1016	<	38	µg/Kg	UJ	L	e
			aroclor 1221	<	77	µg/Kg	UJ	L	e
			aroclor 1232	<	38	µg/Kg	UJ	L	e
			aroclor 1242	<	38	µg/Kg	UJ	L	e
			aroclor 1248	<	38	µg/Kg	UJ	L	e
			aroclor 1254	<	38	µg/Kg	UJ	L	e
			aroclor 1260	<	38	µg/Kg	UJ	L	e
DN40G-RE	01NE29SD120	SX	aroclor 1016	<	41	µg/Kg	UJ	L	e
			aroclor 1221	<	81	µg/Kg	UJ	L	e
			aroclor 1232	<	41	µg/Kg	UJ	L	e
			aroclor 1242	<	41	µg/Kg	UJ	L	e
			aroclor 1248	<	41	µg/Kg	UJ	L	e
			aroclor 1254	<	41	µg/Kg	UJ	L	e
			aroclor 1260	<	41	µg/Kg	UJ	L	e
DN40H-RE	01NE29SD121	SX	aroclor 1016	<	36	µg/Kg	UJ	L	e
			aroclor 1221	<	72	µg/Kg	UJ	L	e
			aroclor 1232	<	36	µg/Kg	UJ	L	e
			aroclor 1242	<	36	µg/Kg	UJ	L	e
			aroclor 1248	<	36	µg/Kg	UJ	L	e
			aroclor 1254	<	36	µg/Kg	UJ	L	e
			aroclor 1260	<	36	µg/Kg	UJ	L	e
DN40I-RE	01NE29SD122	SX	aroclor 1016	<	40	µg/Kg	UJ	L	e
			aroclor 1221	<	80	µg/Kg	UJ	L	e
			aroclor 1232	<	40	µg/Kg	UJ	L	e
			aroclor 1242	<	40	µg/Kg	UJ	L	e
			aroclor 1248	<	40	µg/Kg	UJ	L	e
			aroclor 1254	<	40	µg/Kg	UJ	L	e
			aroclor 1260	<	40	µg/Kg	UJ	L	e
DN40M-RE	01NE29SD127	SX	aroclor 1016	<	50	µg/Kg	UJ	L	e
			aroclor 1221	<	100	µg/Kg	UJ	L	e
			aroclor 1232	<	50	µg/Kg	UJ	L	e
			aroclor 1242	<	50	µg/Kg	UJ	L	e
			aroclor 1248	<	50	µg/Kg	UJ	L	e
			aroclor 1254	<	50	µg/Kg	UJ	L	e
			aroclor 1260	<	50	µg/Kg	UJ	L	e

Table 5 - Holding Time Qualifications (e)

Analysis Type: Polychlorinated Biphenyls

Labcode: ARI

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN40N-RE	01NE29SD126	SX	aroclor 1016	<	47	µg/Kg	UJ	L	e
			aroclor 1221	<	94	µg/Kg	UJ	L	e
			aroclor 1232	<	47	µg/Kg	UJ	L	e
			aroclor 1242	<	47	µg/Kg	UJ	L	e
			aroclor 1248	<	47	µg/Kg	UJ	L	e
			aroclor 1254	<	47	µg/Kg	UJ	L	e
			aroclor 1260	<	47	µg/Kg	UJ	L	e
DN73M	01NE21SW114	WX	aroclor 1016	<	1	µg/L	UJ	L	e
			aroclor 1221	<	2	µg/L	UJ	L	e
			aroclor 1232	<	1	µg/L	UJ	L	e
			aroclor 1242	<	1	µg/L	UJ	L	e
			aroclor 1248	<	1	µg/L	UJ	L	e
			aroclor 1254	<	1	µg/L	UJ	L	e
			aroclor 1260	<	1	µg/L	UJ	L	e

Labcode: SAS

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
100492-04	01NE21SS369	SX	aroclor 1016	<	0.41	mg/Kg	UJ	L	e
			aroclor 1221	<	0.41	mg/Kg	UJ	L	e
			aroclor 1232	<	0.41	mg/Kg	UJ	L	e
			aroclor 1242	<	0.41	mg/Kg	UJ	L	e
			aroclor 1248	<	0.41	mg/Kg	UJ	L	e
			aroclor 1254	<	0.41	mg/Kg	UJ	L	e
			aroclor 1260	<	0.41	mg/Kg	UJ	L	e
100492-10	01NE31SS302	SX	aroclor 1016	<	0.11	mg/Kg	UJ	L	e
			aroclor 1221	<	0.11	mg/Kg	UJ	L	e
			aroclor 1232	<	0.11	mg/Kg	UJ	L	e
			aroclor 1242	<	0.11	mg/Kg	UJ	L	e
			aroclor 1248	<	0.11	mg/Kg	UJ	L	e
			aroclor 1254	<	0.11	mg/Kg	UJ	L	e
			aroclor 1260		3	mg/Kg	J	L	e
100492-12	01NE14SS303	SX	aroclor 1016	<	0.11	mg/Kg	UJ	L	e
			aroclor 1221	<	0.11	mg/Kg	UJ	L	e
			aroclor 1232	<	0.11	mg/Kg	UJ	L	e
			aroclor 1242	<	0.11	mg/Kg	UJ	L	e
			aroclor 1248	<	0.11	mg/Kg	UJ	L	e
			aroclor 1254	<	0.11	mg/Kg	UJ	L	e
			aroclor 1260		0.71	mg/Kg	J	L	e

Table 5 - Holding Time Qualifications (e)

Analysis Type: ***Polychlorinated Biphenyls***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
100492-13	01NE09SD313	SX	aroclor 1016	< 0.63	mg/Kg	UJ	L	e
			aroclor 1221	< 0.63	mg/Kg	UJ	L	e
			aroclor 1232	< 0.63	mg/Kg	UJ	L	e
			aroclor 1242	< 0.63	mg/Kg	UJ	L	e
			aroclor 1248	< 0.63	mg/Kg	UJ	L	e
			aroclor 1254	< 0.63	mg/Kg	UJ	L	e
			aroclor 1260	< 0.63	mg/Kg	UJ	L	e

Table 5 - Holding Time Qualifications (e)

Analysis Type: ***Polynuclear Aromatic Hydrocarbons***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN04S-RE	01NE28SD134	SX	2-methylnaphthalene		25000	µg/Kg	J	L	e,o
			acenaphthene		2300	µg/Kg	J	L	e
			acenaphthylene	<	160	µg/Kg	UJ	L	e
			anthracene	<	160	µg/Kg	UJ	L	e
			benzo(a)anthracene	<	160	µg/Kg	UJ	L	e
			benzo(a)pyrene	<	160	µg/Kg	UJ	L	e
			benzo(b)fluoranthene	<	160	µg/Kg	UJ	L	e
			benzo(g,h,I)perylene	<	160	µg/Kg	UJ	L	e
			benzo(k)fluoranthene	<	160	µg/Kg	UJ	L	e
			chrysene	<	160	µg/Kg	UJ	L	e
			dibenzo(a,h)anthracene	<	160	µg/Kg	UJ	L	e
			dibenzofuran		1200	µg/Kg	J	L	e
			fluoranthene	<	160	µg/Kg	UJ	L	e
			fluorene		4100	µg/Kg	J	L	e
			indeno(1,2,3,c,d)pyrene	<	160	µg/Kg	UJ	L	e
			naphthalene		1800	µg/Kg	J	L	e
			phenanthrene		3400	µg/Kg	J	L	e
			pyrene	<	160	µg/Kg	UJ	L	e
DN04S-REDL	01NE28SD134	SX	2-methylnaphthalene		26000	µg/Kg	J	L	e
			acenaphthene		2700	µg/Kg	J	L	e
			acenaphthylene	<	1600	µg/Kg	UJ	L	e
			anthracene	<	1600	µg/Kg	UJ	L	e
			benzo(a)anthracene	<	1600	µg/Kg	UJ	L	e
			benzo(a)pyrene	<	1600	µg/Kg	UJ	L	e
			benzo(b)fluoranthene	<	1600	µg/Kg	UJ	L	e
			benzo(g,h,I)perylene	<	1600	µg/Kg	UJ	L	e
			benzo(k)fluoranthene	<	1600	µg/Kg	UJ	L	e
			chrysene	<	1600	µg/Kg	UJ	L	e
			dibenzo(a,h)anthracene	<	1600	µg/Kg	UJ	L	e
			dibenzofuran	<	1600	µg/Kg	UJ	L	e
			fluoranthene	<	1600	µg/Kg	UJ	L	e
			fluorene		3900	µg/Kg	J	L	e
			indeno(1,2,3,c,d)pyrene	<	1600	µg/Kg	UJ	L	e
			naphthalene		3600	µg/Kg	J	L	e
			phenanthrene		3400	µg/Kg	J	L	e
			pyrene	<	1600	µg/Kg	UJ	L	e

Table 5 - Holding Time Qualifications (e)

Analysis Type: ***Polynuclear Aromatic Hydrocarbons***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN06H-RE	01NE28SD141	SX	2-methylnaphthalene		290	µg/Kg	J	L	e
			acenaphthene	<	41	µg/Kg	UJ	L	e
			acenaphthylene	<	41	µg/Kg	UJ	L	e
			anthracene	<	41	µg/Kg	UJ	L	e
			benzo(a)anthracene	<	41	µg/Kg	UJ	L	e
			benzo(a)pyrene	<	41	µg/Kg	UJ	L	e
			benzo(b)fluoranthene	<	41	µg/Kg	UJ	L	e
			benzo(g,h,I)perylene	<	41	µg/Kg	UJ	L	e
			benzo(k)fluoranthene	<	41	µg/Kg	UJ	L	e
			chrysene	<	41	µg/Kg	UJ	L	e
			dibenzo(a,h)anthracene	<	41	µg/Kg	UJ	L	e
			dibenzofuran	<	41	µg/Kg	UJ	L	e
			fluoranthene	<	41	µg/Kg	UJ	L	e
			fluorene		45	µg/Kg	J	L	e
			indeno(1,2,3,c,d)pyrene	<	41	µg/Kg	UJ	L	e
			naphthalene		450	µg/Kg	J	L	e
			phenanthrene		41	µg/Kg	J	L	e
			pyrene	<	41	µg/Kg	UJ	L	e
DN06L-RE	01NE28SD145	SX	2-methylnaphthalene		1000	µg/Kg	J	L	e
			acenaphthene		610	µg/Kg	J	L	e
			acenaphthylene	<	49	µg/Kg	UJ	L	e
			anthracene	<	49	µg/Kg	UJ	L	e
			benzo(a)anthracene	<	49	µg/Kg	UJ	L	e
			benzo(a)pyrene	<	49	µg/Kg	UJ	L	e
			benzo(b)fluoranthene	<	49	µg/Kg	UJ	L	e
			benzo(g,h,I)perylene	<	49	µg/Kg	UJ	L	e
			benzo(k)fluoranthene	<	49	µg/Kg	UJ	L	e
			chrysene	<	49	µg/Kg	UJ	L	e
			dibenzo(a,h)anthracene	<	49	µg/Kg	UJ	L	e
			dibenzofuran		170	µg/Kg	J	L	e
			fluoranthene	<	49	µg/Kg	UJ	L	e
			fluorene		880	µg/Kg	J	L	e
			indeno(1,2,3,c,d)pyrene	<	49	µg/Kg	UJ	L	e
			naphthalene		430	µg/Kg	J	L	e
			phenanthrene		670	µg/Kg	J	L	e
			pyrene	<	49	µg/Kg	UJ	L	e

Table 5 - Holding Time Qualifications (e)

Analysis Type: ***Polynuclear Aromatic Hydrocarbons***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN06Q-RE	01NE28SD150	SX	2-methylnaphthalene		1000	µg/Kg	J	L	e
			acenaphthene		330	µg/Kg	J	L	e
			acenaphthylene	<	28	µg/Kg	UJ	L	e
			anthracene	<	28	µg/Kg	UJ	L	e
			benzo(a)anthracene	<	28	µg/Kg	UJ	L	e
			benzo(a)pyrene	<	28	µg/Kg	UJ	L	e
			benzo(b)fluoranthene	<	28	µg/Kg	UJ	L	e
			benzo(g,h,I)perylene	<	28	µg/Kg	UJ	L	e
			benzo(k)fluoranthene	<	28	µg/Kg	UJ	L	e
			chrysene		31	µg/Kg	J	L	e
			dibenzo(a,h)anthracene	<	28	µg/Kg	UJ	L	e
			dibenzofuran		97	µg/Kg	J	L	e
			fluoranthene		31	µg/Kg	J	L	e
			fluorene		390	µg/Kg	J	L	e
			indeno(1,2,3,c,d)pyrene	<	28	µg/Kg	UJ	L	e
			naphthalene		610	µg/Kg	J	L	e
			phenanthrene		250	µg/Kg	J	L	e
			pyrene		36	µg/Kg	J	L	e
DN06Q-REDL	01NE28SD150	SX	2-methylnaphthalene		1200	µg/Kg	J	L	e
			acenaphthene		330	µg/Kg	J	L	e
			acenaphthylene	<	83	µg/Kg	UJ	L	e
			anthracene	<	83	µg/Kg	UJ	L	e
			benzo(a)anthracene	<	83	µg/Kg	UJ	L	e
			benzo(a)pyrene	<	83	µg/Kg	UJ	L	e
			benzo(b)fluoranthene	<	83	µg/Kg	UJ	L	e
			benzo(g,h,I)perylene	<	83	µg/Kg	UJ	L	e
			benzo(k)fluoranthene	<	83	µg/Kg	UJ	L	e
			chrysene	<	83	µg/Kg	UJ	L	e
			dibenzo(a,h)anthracene	<	83	µg/Kg	UJ	L	e
			dibenzofuran		83	µg/Kg	J	L	e
			fluoranthene	<	83	µg/Kg	UJ	L	e
			fluorene		410	µg/Kg	J	L	e
			indeno(1,2,3,c,d)pyrene	<	83	µg/Kg	UJ	L	e
			naphthalene		400	µg/Kg	J	L	e
			phenanthrene		220	µg/Kg	J	L	e
			pyrene	<	83	µg/Kg	UJ	L	e

Table 5 - Holding Time Qualifications (e)

Analysis Type: ***Polynuclear Aromatic Hydrocarbons***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN39K-RE	01NE28SD175	SX	2-methylnaphthalene		21	µg/Kg	J	L	e,b
			acenaphthene	<	11	µg/Kg	UJ	L	e,b
			acenaphthylene	<	11	µg/Kg	UJ	L	e,b
			anthracene	<	11	µg/Kg	UJ	L	e,b
			benzo(a)anthracene	<	11	µg/Kg	UJ	L	e,b
			benzo(a)pyrene	<	11	µg/Kg	UJ	L	e,b
			benzo(b)fluoranthene	<	11	µg/Kg	UJ	L	e,b
			benzo(g,h,I)perylene	<	11	µg/Kg	UJ	L	e,b
			benzo(k)fluoranthene	<	11	µg/Kg	UJ	L	e,b
			chrysene	<	11	µg/Kg	UJ	L	e,b
			dibenzo(a,h)anthracene	<	11	µg/Kg	UJ	L	e,b
			dibenzofuran	<	11	µg/Kg	UJ	L	e,b
			fluoranthene	<	11	µg/Kg	UJ	L	e,b
			fluorene	<	11	µg/Kg	UJ	L	e,b
			indeno(1,2,3,c,d)pyrene	<	11	µg/Kg	UJ	L	e,b
			naphthalene	<	11	µg/Kg	UJ	L	e,b
			phenanthrene	<	11	µg/Kg	UJ	L	e,b
			pyrene	<	11	µg/Kg	UJ	L	e,b
DN40C-RE	01NE29SD125	SX	2-methylnaphthalene	<	8.7	µg/Kg	UJ	L	e
			acenaphthene	<	8.7	µg/Kg	UJ	L	e
			acenaphthylene	<	8.7	µg/Kg	UJ	L	e
			anthracene	<	8.7	µg/Kg	UJ	L	e
			benzo(a)anthracene	<	8.7	µg/Kg	UJ	L	e
			benzo(a)pyrene	<	8.7	µg/Kg	UJ	L	e
			benzo(b)fluoranthene	<	8.7	µg/Kg	UJ	L	e
			benzo(g,h,I)perylene	<	8.7	µg/Kg	UJ	L	e
			benzo(k)fluoranthene	<	8.7	µg/Kg	UJ	L	e
			chrysene	<	8.7	µg/Kg	UJ	L	e
			dibenzo(a,h)anthracene	<	8.7	µg/Kg	UJ	L	e
			dibenzofuran	<	8.7	µg/Kg	UJ	L	e
			fluoranthene	<	8.7	µg/Kg	UJ	L	e
			fluorene	<	8.7	µg/Kg	UJ	L	e
			indeno(1,2,3,c,d)pyrene	<	8.7	µg/Kg	UJ	L	e
			naphthalene	<	8.7	µg/Kg	UJ	L	e
			phenanthrene	<	8.7	µg/Kg	UJ	L	e
			pyrene	<	8.7	µg/Kg	UJ	L	e

Table 5 - Holding Time Qualifications (e)

Analysis Type: ***Polynuclear Aromatic Hydrocarbons***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte	Result		Units	Q	Bias	RC
DN40E-RE	01NE29SD128	SX	2-methylnaphthalene	<	18	µg/Kg	UJ	L	e
			acenaphthene	<	18	µg/Kg	UJ	L	e
			acenaphthylene	<	18	µg/Kg	UJ	L	e
			anthracene	<	18	µg/Kg	UJ	L	e
			benzo(a)anthracene	<	18	µg/Kg	UJ	L	e
			benzo(a)pyrene	<	18	µg/Kg	UJ	L	e
			benzo(b)fluoranthene	<	18	µg/Kg	UJ	L	e
			benzo(g,h,I)perylene	<	18	µg/Kg	UJ	L	e
			benzo(k)fluoranthene	<	18	µg/Kg	UJ	L	e
			chrysene	<	18	µg/Kg	UJ	L	e
			dibenzo(a,h)anthracene	<	18	µg/Kg	UJ	L	e
			dibenzofuran	<	18	µg/Kg	UJ	L	e
			fluoranthene	<	18	µg/Kg	UJ	L	e
			fluorene	<	18	µg/Kg	UJ	L	e
			indeno(1,2,3,c,d)pyrene	<	18	µg/Kg	UJ	L	e
			naphthalene	<	18	µg/Kg	UJ	L	e
			phenanthrene	<	18	µg/Kg	UJ	L	e
			pyrene	<	18	µg/Kg	UJ	L	e
DN40N-RE	01NE29SD126	SX	2-methylnaphthalene	<	8.5	µg/Kg	UJ	L	b,e
			acenaphthene	<	8.5	µg/Kg	UJ	L	b,e
			acenaphthylene	<	8.5	µg/Kg	UJ	L	b,e
			anthracene	<	8.5	µg/Kg	UJ	L	b,e
			benzo(a)anthracene	<	8.5	µg/Kg	UJ	L	b,e
			benzo(a)pyrene	<	8.5	µg/Kg	UJ	L	b,e
			benzo(b)fluoranthene	<	8.5	µg/Kg	UJ	L	b,e
			benzo(g,h,I)perylene	<	8.5	µg/Kg	UJ	L	b,e
			benzo(k)fluoranthene	<	8.5	µg/Kg	UJ	L	b,e
			chrysene	<	8.5	µg/Kg	UJ	L	b,e
			dibenzo(a,h)anthracene	<	8.5	µg/Kg	UJ	L	b,e
			dibenzofuran	<	8.5	µg/Kg	UJ	L	b,e
			fluoranthene	<	8.5	µg/Kg	UJ	L	b,e
			fluorene	<	8.5	µg/Kg	UJ	L	b,e
			indeno(1,2,3,c,d)pyrene	<	8.5	µg/Kg	UJ	L	b,e
			naphthalene	<	8.5	µg/Kg	UJ	L	b,e
			phenanthrene	<	8.5	µg/Kg	UJ	L	b,e
			pyrene	<	8.5	µg/Kg	UJ	L	b,e

Table 5 - Holding Time Qualifications (e)

Analysis Type: ***Polynuclear Aromatic Hydrocarbons***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
DN55D-RE	01NE34SS101	SX	2-methylnaphthalene	< 8.9	µg/Kg	UJ	L	e
			acenaphthene	< 8.9	µg/Kg	UJ	L	e
			acenaphthylene	< 8.9	µg/Kg	UJ	L	e
			anthracene	< 8.9	µg/Kg	UJ	L	e
			benzo(a)anthracene	< 8.9	µg/Kg	UJ	L	e
			benzo(a)pyrene	< 8.9	µg/Kg	UJ	L	e
			benzo(b)fluoranthene	< 8.9	µg/Kg	UJ	L	e
			benzo(g,h,I)perylene	< 8.9	µg/Kg	UJ	L	e
			benzo(k)fluoranthene	< 8.9	µg/Kg	UJ	L	e
			chrysene	< 8.9	µg/Kg	UJ	L	e
			dibenzo(a,h)anthracene	< 8.9	µg/Kg	UJ	L	e
			dibenzofuran	< 8.9	µg/Kg	UJ	L	e
			fluoranthene	< 8.9	µg/Kg	UJ	L	e
			fluorene	< 8.9	µg/Kg	UJ	L	e
			indeno(1,2,3,c,d)pyrene	< 8.9	µg/Kg	UJ	L	e
			naphthalene	< 8.9	µg/Kg	UJ	L	e
			phenanthrene	< 8.9	µg/Kg	UJ	L	e
			pyrene	< 8.9	µg/Kg	UJ	L	e
DN76E-RE	01NE09SD108	SX	2-methylnaphthalene	< 25	µg/Kg	UJ	L	e
			acenaphthene	< 25	µg/Kg	UJ	L	e
			acenaphthylene	< 25	µg/Kg	UJ	L	e
			anthracene	< 25	µg/Kg	UJ	L	e
			benzo(a)anthracene	< 25	µg/Kg	UJ	L	e
			benzo(a)pyrene	< 25	µg/Kg	UJ	L	e
			benzo(b)fluoranthene	< 25	µg/Kg	UJ	L	e
			benzo(g,h,I)perylene	< 25	µg/Kg	UJ	L	e
			benzo(k)fluoranthene	< 25	µg/Kg	UJ	L	e
			chrysene	< 25	µg/Kg	UJ	L	e
			dibenzo(a,h)anthracene	< 25	µg/Kg	UJ	L	e
			dibenzofuran	< 25	µg/Kg	UJ	L	e
			fluoranthene	< 25	µg/Kg	UJ	L	e
			fluorene	< 25	µg/Kg	UJ	L	e
			indeno(1,2,3,c,d)pyrene	< 25	µg/Kg	UJ	L	e
			naphthalene	< 25	µg/Kg	UJ	L	e
			phenanthrene	< 25	µg/Kg	UJ	L	e
			pyrene	< 25	µg/Kg	UJ	L	e

Table 5 - Holding Time Qualifications (e)

Analysis Type: ***Polynuclear Aromatic Hydrocarbons***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte	Result		Units	Q	Bias	RC
DN76H-RE	01NE30SS103	SX	2-methylnaphthalene	<	60	µg/Kg	UJ	L	e
			acenaphthene	<	60	µg/Kg	UJ	L	e
			acenaphthylene	<	60	µg/Kg	UJ	L	e
			anthracene	<	60	µg/Kg	UJ	L	e
			benzo(a)anthracene	<	60	µg/Kg	UJ	L	e
			benzo(a)pyrene	<	60	µg/Kg	UJ	L	e
			benzo(b)fluoranthene	<	60	µg/Kg	UJ	L	e
			benzo(g,h,I)perylene	<	60	µg/Kg	UJ	L	e
			benzo(k)fluoranthene	<	60	µg/Kg	UJ	L	e
			chrysene	<	60	µg/Kg	UJ	L	e
			dibenzo(a,h)anthracene	<	60	µg/Kg	UJ	L	e
			dibenzofuran	<	60	µg/Kg	UJ	L	e
			fluoranthene	<	60	µg/Kg	UJ	L	e
			fluorene	<	60	µg/Kg	UJ	L	e
			indeno(1,2,3,c,d)pyrene	<	60	µg/Kg	UJ	L	e
			naphthalene	<	60	µg/Kg	UJ	L	e
			phenanthrene	<	60	µg/Kg	UJ	L	e
			pyrene	<	60	µg/Kg	UJ	L	e
DN76P-RE	01NE09SD113	SX	2-methylnaphthalene	<	40	µg/Kg	UJ	L	e
			acenaphthene	<	40	µg/Kg	UJ	L	e
			acenaphthylene	<	40	µg/Kg	UJ	L	e
			anthracene	<	40	µg/Kg	UJ	L	e
			benzo(a)anthracene	<	40	µg/Kg	UJ	L	e
			benzo(a)pyrene	<	40	µg/Kg	UJ	L	e
			benzo(b)fluoranthene	<	40	µg/Kg	UJ	L	e
			benzo(g,h,I)perylene	<	40	µg/Kg	UJ	L	e
			benzo(k)fluoranthene	<	40	µg/Kg	UJ	L	e
			chrysene	<	40	µg/Kg	UJ	L	e
			dibenzo(a,h)anthracene	<	40	µg/Kg	UJ	L	e
			dibenzofuran	<	40	µg/Kg	UJ	L	e
			fluoranthene	<	40	µg/Kg	UJ	L	e
			fluorene	<	40	µg/Kg	UJ	L	e
			indeno(1,2,3,c,d)pyrene	<	40	µg/Kg	UJ	L	e
			naphthalene	<	40	µg/Kg	UJ	L	e
			phenanthrene	<	40	µg/Kg	UJ	L	e
			pyrene	<	40	µg/Kg	UJ	L	e

Table 6 - Surrogate Qualifications (b)

Due to surrogate accuracy problems, the following results are qualified as estimated:

Analysis Type: ***BTEX***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
100492-04	01NE21SS369	SX	benzene	<	0.055	mg/Kg	UJ	L	b
			ethylbenzene	<	0.11	mg/Kg	UJ	L	b
			m,p-xylene	<	0.22	mg/Kg	UJ	L	b
			o-xylene	<	0.11	mg/Kg	UJ	L	b
			toluene	<	0.11	mg/Kg	UJ	L	b
100492-07	01NE24SD314	SX	benzene	<	0.0074	mg/Kg	UJ	L	b
			ethylbenzene	<	0.015	mg/Kg	UJ	L	b
			m,p-xylene	<	0.03	mg/Kg	UJ	L	b
			o-xylene	<	0.015	mg/Kg	UJ	L	b
			toluene	<	0.015	mg/Kg	UJ	L	b
100492-11	01NE31SS321	SX	benzene	<	0.011	mg/Kg	UJ	L	b
			ethylbenzene	<	0.021	mg/Kg	UJ	L	b
			m,p-xylene	<	0.043	mg/Kg	UJ	L	b
			o-xylene	<	0.021	mg/Kg	UJ	L	b
			toluene	<	0.021	mg/Kg	UJ	L	b

Table 6 - Surrogate Qualifications (b)

Analysis Type: ***Diesel / Residual Range Organics***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN04D	01NE28SD120	SX	diesel range organics		170	mg/Kg	J	L	b
			motor oil		600	mg/Kg	J	L	b
DN04D-RE	01NE28SD120	SX	diesel range organics		480	mg/Kg	J	L	b
			motor oil		1000	mg/Kg	J	L	b
DN04F	01NE28SD122	SX	diesel range organics		110	mg/Kg	J	L	b
			motor oil		460	mg/Kg	J	L	b
DN04F-RE	01NE28SD122	SX	diesel range organics		310	mg/Kg	J	L	b
			motor oil		910	mg/Kg	J	L	b
DN04G	01NE28SD123	SX	diesel range organics		140	mg/Kg	J	L	b
			motor oil		490	mg/Kg	J	L	b
DN04G-RE	01NE28SD123	SX	diesel range organics		1600	mg/Kg	J	L	b
			motor oil		1500	mg/Kg	J	L	b
DN39H	01NE28SD172	SX	diesel range organics		5200	mg/Kg	J	L	b,o
			motor oil		360	mg/Kg	J	L	b
DN39K	01NE28SD175	SX	diesel range organics		280	mg/Kg	J	L	b
			motor oil		1200	mg/Kg	J	L	b
DN39L	01NE28SD176	SX	diesel range organics		790	mg/Kg	J	L	b
			motor oil		1400	mg/Kg	J	L	b
DN39M	01NE28SD271	SX	diesel range organics		1500	mg/Kg	J	L	b
			motor oil		1400	mg/Kg	J	L	b
DN68F	01NE09SD114	SX	diesel range organics		93	mg/Kg	J	L	b
			motor oil		740	mg/Kg	J	L	b
DN68F-RE	01NE09SD114	SX	diesel range organics		65	mg/Kg	J	L	b,e
			motor oil		300	mg/Kg	J	L	b,e
DN71D	01NE09MW103	WX	diesel range organics	<	0.25	mg/L	UJ	L	b
			motor oil	<	0.5	mg/L	UJ	L	b
DN71D-RE	01NE09MW103	WX	diesel range organics	<	0.25	mg/L	UJ	L	b,e
			motor oil	<	0.5	mg/L	UJ	L	b,e
DN78F	01NE31SS109	SX	diesel range organics		470	mg/Kg	J	L	b
			motor oil	<	50	mg/Kg	UJ	L	b
DN78H	01NE31SS111	SX	diesel range organics		78	mg/Kg	J	L	b
			motor oil		32	mg/Kg	J	L	b
DN78I	01NE31SS112	SX	diesel range organics		120	mg/Kg	J	L	b
			motor oil		12	mg/Kg	J	L	b

Table 6 - Surrogate Qualifications (b)

Analysis Type: ***Diesel / Residual Range Organics***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN78L	01NE31SS115	SX	diesel range organics		380	mg/Kg	J	L	b
			motor oil	<	40	mg/Kg	UJ	L	b
DN78S	01NE31SS125	SX	diesel range organics		64	mg/Kg	J	L	b
			motor oil		210	mg/Kg	J	L	b

Table 6 - Surrogate Qualifications (b)

Analysis Type: ***Gasoline Range Organics***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
100492-04	01NE21SS369	SX	gasoline range organics	<	5.5	mg/Kg	UJ	L	b

Table 6 - Surrogate Qualifications (b)

Analysis Type: ***Organochlorine Pesticides / PCBs***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN68U	01NE32SS103	SX	4,4'-DDD	<	4.3	µg/Kg	UJ	L	b
			4,4'-DDE	<	4.3	µg/Kg	UJ	L	b
			4,4'-DDT	<	4.3	µg/Kg	UJ	L	b
			aldrin	<	2.2	µg/Kg	UJ	L	b
			alpha-BHC	<	2.2	µg/Kg	UJ	L	b
			alpha-chlordane	<	2.2	µg/Kg	UJ	L	b
			aroclor 1016	<	43	µg/Kg	UJ	L	b
			aroclor 1221	<	87	µg/Kg	UJ	L	b
			aroclor 1232	<	43	µg/Kg	UJ	L	b
			aroclor 1242	<	43	µg/Kg	UJ	L	b
			aroclor 1248	<	43	µg/Kg	UJ	L	b
			aroclor 1254	<	43	µg/Kg	UJ	L	b
			aroclor 1260	<	43	µg/Kg	UJ	L	b
			beta-BHC	<	2.2	µg/Kg	UJ	L	b
			delta-BHC	<	2.2	µg/Kg	UJ	L	b
			dieldrin	<	4.3	µg/Kg	UJ	L	b
			endosulfan I	<	2.2	µg/Kg	UJ	L	b
			endosulfan II	<	4.3	µg/Kg	UJ	L	b
			endosulfan sulfate	<	4.3	µg/Kg	UJ	L	b
			endrin	<	4.3	µg/Kg	UJ	L	b
			endrin aldehyde	<	4.3	µg/Kg	UJ	L	b
			endrin ketone	<	4.3	µg/Kg	UJ	L	b
			gamma-BHC	<	2.2	µg/Kg	UJ	L	b
			gamma-chlordane	<	2.2	µg/Kg	UJ	L	b
			heptachlor	<	2.2	µg/Kg	UJ	L	b
			heptachlor epoxide	<	2.2	µg/Kg	UJ	L	b
			methoxychlor	<	22	µg/Kg	UJ	L	b
			toxaphene	<	220	µg/Kg	UJ	L	b
DN68V	01NE32SS104	SX	aroclor 1260		160	µg/Kg	J	H	b,c

Table 6 - Surrogate Qualifications (b)

Analysis Type: ***Organochlorine Pesticides / PCBs***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN76N	01NE32SS105	SX	4,4'-DDD	<	3.6	µg/Kg	UJ	L	b
			4,4'-DDE	<	3.6	µg/Kg	UJ	L	b
			4,4'-DDT	<	37	µg/Kg	UJ	L	b
			aldrin	<	1.8	µg/Kg	UJ	L	b
			alpha-BHC	<	1.8	µg/Kg	UJ	L	b
			alpha-chlordane	<	1.8	µg/Kg	UJ	L	b
			aroclor 1016	<	36	µg/Kg	UJ	L	b
			aroclor 1221	<	72	µg/Kg	UJ	L	b
			aroclor 1232	<	36	µg/Kg	UJ	L	b
			aroclor 1242	<	36	µg/Kg	UJ	L	b
			aroclor 1248	<	36	µg/Kg	UJ	L	b
			aroclor 1254	<	36	µg/Kg	UJ	L	b
			aroclor 1260		890	µg/Kg	J	L	b
			beta-BHC	<	1.8	µg/Kg	UJ	L	b
			delta-BHC	<	1.8	µg/Kg	UJ	L	b
			dieldrin	<	11	µg/Kg	UJ	L	b
			endosulfan I	<	1.8	µg/Kg	UJ	L	b
			endosulfan II	<	3.6	µg/Kg	UJ	L	b
			endosulfan sulfate	<	7.3	µg/Kg	UJ	L	b
			endrin	<	3.6	µg/Kg	UJ	L	b
			endrin aldehyde	<	7.8	µg/Kg	UJ	L	b
			endrin ketone	<	3.6	µg/Kg	UJ	L	b
			gamma-BHC	<	1.8	µg/Kg	UJ	L	b
			gamma-chlordane	<	2.8	µg/Kg	UJ	L	b
			heptachlor	<	1.8	µg/Kg	UJ	L	b
			heptachlor epoxide	<	1.8	µg/Kg	UJ	L	b
			methoxychlor	<	3.1	µg/Kg	UJ	L	b
			toxaphene	<	180	µg/Kg	UJ	L	b

Table 6 - Surrogate Qualifications (b)

Analysis Type: ***Organochlorine Pesticides / PCBs***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DQ74A	01NE16SS167	SX	4,4'-DDD	<	3.7	µg/Kg	UJ	L	b
			4,4'-DDE	<	3.7	µg/Kg	UJ	L	b
			4,4'-DDT		11	µg/Kg	J	L	b
			aldrin	<	1.8	µg/Kg	UJ	L	b
			alpha-BHC	<	1.8	µg/Kg	UJ	L	b
			alpha-chlordane	<	1.8	µg/Kg	UJ	L	b
			beta-BHC	<	1.8	µg/Kg	UJ	L	b
			delta-BHC	<	1.8	µg/Kg	UJ	L	b
			dieldrin	<	3.7	µg/Kg	UJ	L	b
			endosulfan I	<	1.8	µg/Kg	UJ	L	b
			endosulfan II	<	3.7	µg/Kg	UJ	L	b
			endosulfan sulfate	<	3.7	µg/Kg	UJ	L	b
			endrin	<	3.7	µg/Kg	UJ	L	b
			endrin aldehyde	<	3.7	µg/Kg	UJ	L	b
			endrin ketone	<	3.7	µg/Kg	UJ	L	b
			gamma-BHC	<	1.8	µg/Kg	UJ	L	b
			gamma-chlordane	<	1.8	µg/Kg	UJ	L	b
			heptachlor	<	1.8	µg/Kg	UJ	L	b
			heptachlor epoxide	<	1.8	µg/Kg	UJ	L	b
			methoxychlor	<	18	µg/Kg	UJ	L	b
			toxaphene	<	180	µg/Kg	UJ	L	b
DQ74B	01NE16SS168	SX	4,4'-DDD		6	µg/Kg	J	L	b
			4,4'-DDE		5	µg/Kg	J	L	b
			4,4'-DDT		140	µg/Kg	J	L	b,o
			aldrin	<	1.9	µg/Kg	UJ	L	b
			alpha-BHC	<	1.9	µg/Kg	UJ	L	b
			alpha-chlordane	<	1.9	µg/Kg	UJ	L	b
			beta-BHC	<	1.9	µg/Kg	UJ	L	b
			delta-BHC	<	1.9	µg/Kg	UJ	L	b
			dieldrin	<	3.8	µg/Kg	UJ	L	b
			endosulfan I		2.5	µg/Kg	J	L	b
			endosulfan II	<	3.8	µg/Kg	UJ	L	b
			endosulfan sulfate	<	3.8	µg/Kg	UJ	L	b
			endrin	<	3.8	µg/Kg	UJ	L	b
			endrin aldehyde	<	6.4	µg/Kg	UJ	L	b
			endrin ketone	<	3.8	µg/Kg	UJ	L	b
			gamma-BHC	<	1.9	µg/Kg	UJ	L	b
			gamma-chlordane	<	1.9	µg/Kg	UJ	L	b
			heptachlor	<	1.9	µg/Kg	UJ	L	b
			heptachlor epoxide	<	1.9	µg/Kg	UJ	L	b
			methoxychlor	<	19	µg/Kg	UJ	L	b
			toxaphene	<	190	µg/Kg	UJ	L	b

Table 6 - Surrogate Qualifications (b)

Analysis Type: ***Organochlorine Pesticides / PCBs***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DQ74B-DL	01NE16SS168	SX	4,4'-DDD	<	19	µg/Kg	UJ	L	b
			4,4'-DDE	<	19	µg/Kg	UJ	L	b
			4,4'-DDT		120	µg/Kg	J	L	b
			aldrin	<	9.5	µg/Kg	UJ	L	b
			alpha-BHC	<	9.5	µg/Kg	UJ	L	b
			alpha-chlordane	<	9.5	µg/Kg	UJ	L	b
			beta-BHC	<	9.5	µg/Kg	UJ	L	b
			delta-BHC	<	9.5	µg/Kg	UJ	L	b
			dieldrin	<	19	µg/Kg	UJ	L	b
			endosulfan I	<	9.5	µg/Kg	UJ	L	b
			endosulfan II	<	19	µg/Kg	UJ	L	b
			endosulfan sulfate	<	19	µg/Kg	UJ	L	b
			endrin	<	19	µg/Kg	UJ	L	b
			endrin aldehyde	<	19	µg/Kg	UJ	L	b
			endrin ketone	<	19	µg/Kg	UJ	L	b
			gamma-BHC	<	9.5	µg/Kg	UJ	L	b
			gamma-chlordane	<	9.5	µg/Kg	UJ	L	b
			heptachlor	<	9.5	µg/Kg	UJ	L	b
			heptachlor epoxide	<	9.5	µg/Kg	UJ	L	b
			methoxychlor	<	95	µg/Kg	UJ	L	b
			toxaphene	<	950	µg/Kg	UJ	L	b
DQ74C	01NE28SD183	SX	4,4'-DDD		200	µg/Kg	J	L	b,o
			4,4'-DDE	<	18	µg/Kg	UJ	L	b
			4,4'-DDT	<	14	µg/Kg	UJ	L	b
			aldrin	<	3.5	µg/Kg	UJ	L	b
			alpha-BHC	<	6.3	µg/Kg	UJ	L	b
			alpha-chlordane	<	3.5	µg/Kg	UJ	L	b
			beta-BHC		12	µg/Kg	J	L	b
			delta-BHC	<	3.5	µg/Kg	UJ	L	b
			dieldrin	<	11	µg/Kg	UJ	L	b
			endosulfan I	<	3.5	µg/Kg	UJ	L	b
			endosulfan II	<	7	µg/Kg	UJ	L	b
			endosulfan sulfate	<	11	µg/Kg	UJ	L	b
			endrin	<	7	µg/Kg	UJ	L	b
			endrin aldehyde	<	7	µg/Kg	UJ	L	b
			endrin ketone	<	7	µg/Kg	UJ	L	b
			gamma-BHC	<	3.9	µg/Kg	UJ	L	b
			gamma-chlordane	<	6.4	µg/Kg	UJ	L	b
			heptachlor		4.6	µg/Kg	J	L	b
			heptachlor epoxide	<	3.5	µg/Kg	UJ	L	b
			methoxychlor	<	35	µg/Kg	UJ	L	b
			toxaphene	<	350	µg/Kg	UJ	L	b

Table 6 - Surrogate Qualifications (b)

Analysis Type: ***Organochlorine Pesticides / PCBs***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DQ74D	01NE28SD184	SX	4,4'-DDD		27	µg/Kg	J	L	b
			4,4'-DDE	<	5.4	µg/Kg	UJ	L	b
			4,4'-DDT	<	5.4	µg/Kg	UJ	L	b
			aldrin	<	2.7	µg/Kg	UJ	L	b
			alpha-BHC	<	2.7	µg/Kg	UJ	L	b
			alpha-chlordane	<	2.7	µg/Kg	UJ	L	b
			beta-BHC	<	2.7	µg/Kg	UJ	L	b
			delta-BHC	<	2.7	µg/Kg	UJ	L	b
			dieldrin	<	5.4	µg/Kg	UJ	L	b
			endosulfan I	<	2.7	µg/Kg	UJ	L	b
			endosulfan II	<	5.4	µg/Kg	UJ	L	b
			endosulfan sulfate	<	5.4	µg/Kg	UJ	L	b
			endrin	<	5.4	µg/Kg	UJ	L	b
			endrin aldehyde	<	5.4	µg/Kg	UJ	L	b
			endrin ketone	<	5.4	µg/Kg	UJ	L	b
			gamma-BHC	<	2.7	µg/Kg	UJ	L	b
			gamma-chlordane	<	2.7	µg/Kg	UJ	L	b
			heptachlor	<	2.7	µg/Kg	UJ	L	b
			heptachlor epoxide	<	2.7	µg/Kg	UJ	L	b
			methoxychlor	<	27	µg/Kg	UJ	L	b
			toxaphene	<	270	µg/Kg	UJ	L	b
DQ74E	01NE28SD185	SX	4,4'-DDD			µg/Kg	J	L	b
			4,4'-DDE	<	110	µg/Kg	UJ	L	b
			4,4'-DDT	<	32	µg/Kg	UJ	L	b
			aldrin	<	3.3	µg/Kg	UJ	L	b
			alpha-BHC	<	4	µg/Kg	UJ	L	b
			alpha-chlordane	<	3.3	µg/Kg	UJ	L	b
			beta-BHC	<	6.4	µg/Kg	UJ	L	b
			delta-BHC	<	3.3	µg/Kg	UJ	L	b
			dieldrin	<	97	µg/Kg	UJ	L	b
			endosulfan I	<	3.3	µg/Kg	UJ	L	b
			endosulfan II	<	8.3	µg/Kg	UJ	L	b
			endosulfan sulfate	<	58	µg/Kg	UJ	L	b
			endrin	<	6.6	µg/Kg	UJ	L	b
			endrin aldehyde	<	38	µg/Kg	UJ	L	b
			endrin ketone	<	6.6	µg/Kg	UJ	L	b
			gamma-BHC	<	3.3	µg/Kg	UJ	L	b
			gamma-chlordane	<	32	µg/Kg	UJ	L	b
			heptachlor	<	3.3	µg/Kg	UJ	L	b
			heptachlor epoxide	<	3.3	µg/Kg	UJ	L	b
			methoxychlor	<	33	µg/Kg	UJ	L	b
			toxaphene	<	330	µg/Kg	UJ	L	b

Table 6 - Surrogate Qualifications (b)

Analysis Type: ***Organochlorine Pesticides / PCBs***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DQ74G	01NE28SD187	SX	4,4'-DDD		7.2	µg/Kg	J	L	b
			4,4'-DDE	<	6.6	µg/Kg	UJ	L	b
			4,4'-DDT	<	6.6	µg/Kg	UJ	L	b
			aldrin	<	3.3	µg/Kg	UJ	L	b
			alpha-BHC	<	3.3	µg/Kg	UJ	L	b
			alpha-chlordane	<	3.3	µg/Kg	UJ	L	b
			beta-BHC	<	3.3	µg/Kg	UJ	L	b
			delta-BHC	<	3.3	µg/Kg	UJ	L	b
			dieldrin	<	6.6	µg/Kg	UJ	L	b
			endosulfan I	<	3.3	µg/Kg	UJ	L	b
			endosulfan II	<	6.6	µg/Kg	UJ	L	b
			endosulfan sulfate	<	6.6	µg/Kg	UJ	L	b
			endrin	<	6.6	µg/Kg	UJ	L	b
			endrin aldehyde	<	6.6	µg/Kg	UJ	L	b
			endrin ketone	<	6.6	µg/Kg	UJ	L	b
			gamma-BHC	<	3.3	µg/Kg	UJ	L	b
			gamma-chlordane	<	3.3	µg/Kg	UJ	L	b
			heptachlor	<	3.3	µg/Kg	UJ	L	b
			heptachlor epoxide	<	3.3	µg/Kg	UJ	L	b
			methoxychlor	<	33	µg/Kg	UJ	L	b
			toxaphene	<	330	µg/Kg	UJ	L	b
DQ74J	01NE28SD190	SX	4,4'-DDD	<	10	µg/Kg	UJ	L	b
			4,4'-DDE	<	10	µg/Kg	UJ	L	b
			4,4'-DDT	<	10	µg/Kg	UJ	L	b
			aldrin	<	5.2	µg/Kg	UJ	L	b
			alpha-BHC	<	5.2	µg/Kg	UJ	L	b
			alpha-chlordane	<	5.2	µg/Kg	UJ	L	b
			beta-BHC	<	5.2	µg/Kg	UJ	L	b
			delta-BHC	<	5.2	µg/Kg	UJ	L	b
			dieldrin	<	10	µg/Kg	UJ	L	b
			endosulfan I	<	5.2	µg/Kg	UJ	L	b
			endosulfan II	<	10	µg/Kg	UJ	L	b
			endosulfan sulfate	<	10	µg/Kg	UJ	L	b
			endrin	<	10	µg/Kg	UJ	L	b
			endrin aldehyde	<	10	µg/Kg	UJ	L	b
			endrin ketone	<	10	µg/Kg	UJ	L	b
			gamma-BHC	<	5.2	µg/Kg	UJ	L	b
			gamma-chlordane	<	5.2	µg/Kg	UJ	L	b
			heptachlor	<	5.2	µg/Kg	UJ	L	b
			heptachlor epoxide	<	5.2	µg/Kg	UJ	L	b
			methoxychlor	<	52	µg/Kg	UJ	L	b
			toxaphene	<	520	µg/Kg	UJ	L	b

Table 6 - Surrogate Qualifications (b)

Analysis Type: ***Organochlorine Pesticides / PCBs***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DQ74K	01NE28SD191	SX	4,4'-DDD		15	µg/Kg	J	L	b
			4,4'-DDE	<	5.3	µg/Kg	UJ	L	b
			4,4'-DDT	<	5.3	µg/Kg	UJ	L	b
			aldrin	<	2.6	µg/Kg	UJ	L	b
			alpha-BHC	<	2.9	µg/Kg	UJ	L	b
			alpha-chlordane	<	2.6	µg/Kg	UJ	L	b
			beta-BHC	<	9.2	µg/Kg	UJ	L	b
			delta-BHC	<	2.6	µg/Kg	UJ	L	b
			dieldrin	<	5.3	µg/Kg	UJ	L	b
			endosulfan I	<	2.6	µg/Kg	UJ	L	b
			endosulfan II	<	5.3	µg/Kg	UJ	L	b
			endosulfan sulfate	<	5.3	µg/Kg	UJ	L	b
			endrin	<	5.3	µg/Kg	UJ	L	b
			endrin aldehyde	<	5.3	µg/Kg	UJ	L	b
			endrin ketone	<	5.3	µg/Kg	UJ	L	b
			gamma-BHC		2.9	µg/Kg	J	L	b
			gamma-chlordane	<	2.6	µg/Kg	UJ	L	b
			heptachlor	<	2.6	µg/Kg	UJ	L	b
			heptachlor epoxide	<	2.6	µg/Kg	UJ	L	b
			methoxychlor	<	26	µg/Kg	UJ	L	b
			toxaphene	<	260	µg/Kg	UJ	L	b
DQ74L	01NE28SD192	SX	4,4'-DDD	<	7.2	µg/Kg	UJ	L	b
			4,4'-DDE	<	4.3	µg/Kg	UJ	L	b
			4,4'-DDT	<	4.3	µg/Kg	UJ	L	b
			aldrin	<	2.2	µg/Kg	UJ	L	b
			alpha-BHC	<	2.2	µg/Kg	UJ	L	b
			alpha-chlordane	<	2.2	µg/Kg	UJ	L	b
			beta-BHC	<	2.2	µg/Kg	UJ	L	b
			delta-BHC	<	2.2	µg/Kg	UJ	L	b
			dieldrin	<	4.3	µg/Kg	UJ	L	b
			endosulfan I	<	2.2	µg/Kg	UJ	L	b
			endosulfan II	<	4.3	µg/Kg	UJ	L	b
			endosulfan sulfate	<	4.3	µg/Kg	UJ	L	b
			endrin	<	4.3	µg/Kg	UJ	L	b
			endrin aldehyde	<	4.3	µg/Kg	UJ	L	b
			endrin ketone	<	4.3	µg/Kg	UJ	L	b
			gamma-BHC	<	2.2	µg/Kg	UJ	L	b
			gamma-chlordane	<	2.2	µg/Kg	UJ	L	b
			heptachlor	<	2.2	µg/Kg	UJ	L	b
			heptachlor epoxide	<	2.2	µg/Kg	UJ	L	b
			methoxychlor	<	22	µg/Kg	UJ	L	b
			toxaphene	<	220	µg/Kg	UJ	L	b

Table 6 - Surrogate Qualifications (b)

Analysis Type: ***Organochlorine Pesticides / PCBs***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DQ74M	01NE28SD292	SX	4,4'-DDD	<	7.1	µg/Kg	UJ	L	b
			4,4'-DDE	<	6.5	µg/Kg	UJ	L	b
			4,4'-DDT	<	5	µg/Kg	UJ	L	b
			aldrin	<	2.1	µg/Kg	UJ	L	b
			alpha-BHC	<	2.1	µg/Kg	UJ	L	b
			alpha-chlordane	<	2.1	µg/Kg	UJ	L	b
			beta-BHC	<	2.1	µg/Kg	UJ	L	b
			delta-BHC	<	2.1	µg/Kg	UJ	L	b
			dieldrin	<	7.8	µg/Kg	UJ	L	b
			endosulfan I	<	2.1	µg/Kg	UJ	L	b
			endosulfan II	<	4.1	µg/Kg	UJ	L	b
			endosulfan sulfate	<	12	µg/Kg	UJ	L	b
			endrin	<	4.1	µg/Kg	UJ	L	b
			endrin aldehyde	<	4.1	µg/Kg	UJ	L	b
			endrin ketone	<	4.1	µg/Kg	UJ	L	b
			gamma-BHC	<	2.1	µg/Kg	UJ	L	b
			gamma-chlordane	<	3.8	µg/Kg	UJ	L	b
			heptachlor	<	2.1	µg/Kg	UJ	L	b
			heptachlor epoxide	<	2.1	µg/Kg	UJ	L	b
			methoxychlor	<	21	µg/Kg	UJ	L	b
			toxaphene	<	210	µg/Kg	UJ	L	b
DQ74N	01NE28SD285	SX	4,4'-DDE	<	82	µg/Kg	UJ	L	b
			4,4'-DDT	<	22	µg/Kg	UJ	L	b
			aldrin	<	2.8	µg/Kg	UJ	L	b
			alpha-BHC	<	2.8	µg/Kg	UJ	L	b
			alpha-chlordane	<	2.8	µg/Kg	UJ	L	b
			beta-BHC		3.9	µg/Kg	J	L	b
			delta-BHC	<	2.8	µg/Kg	UJ	L	b
			dieldrin	<	16	µg/Kg	UJ	L	b
			endosulfan I	<	2.8	µg/Kg	UJ	L	b
			endosulfan II	<	5.7	µg/Kg	UJ	L	b
			endosulfan sulfate	<	56	µg/Kg	UJ	L	b
			endrin	<	5.7	µg/Kg	UJ	L	b
			endrin aldehyde	<	35	µg/Kg	UJ	L	b
			endrin ketone	<	5.7	µg/Kg	UJ	L	b
			gamma-BHC	<	2.8	µg/Kg	UJ	L	b
			gamma-chlordane	<	26	µg/Kg	UJ	L	b
			heptachlor	<	2.8	µg/Kg	UJ	L	b
			heptachlor epoxide	<	2.8	µg/Kg	UJ	L	b
			methoxychlor	<	28	µg/Kg	UJ	L	b
			toxaphene	<	280	µg/Kg	UJ	L	b

Table 6 - Surrogate Qualifications (b)

Analysis Type: ***Polychlorinated Biphenyls***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN04P-RE	01NE28SD131	SX	aroclor 1016	<	64	µg/Kg	UJ	L	b
			aroclor 1221	<	130	µg/Kg	UJ	L	b
			aroclor 1232	<	64	µg/Kg	UJ	L	b
			aroclor 1242	<	64	µg/Kg	UJ	L	b
			aroclor 1248	<	64	µg/Kg	UJ	L	b
			aroclor 1254		130	µg/Kg	J	L	b
			aroclor 1260		140	µg/Kg	J	L	b
DN07G	01NE28SD113	SX	aroclor 1016	<	260	µg/Kg	UJ	L	b
			aroclor 1221	<	510	µg/Kg	UJ	L	b
			aroclor 1232	<	260	µg/Kg	UJ	L	b
			aroclor 1242	<	260	µg/Kg	UJ	L	b
			aroclor 1248	<	260	µg/Kg	UJ	L	b
			aroclor 1254	<	260	µg/Kg	UJ	L	b
			aroclor 1260	<	260	µg/Kg	UJ	L	b
DN38M	01NE28SD170	SX	aroclor 1016	<	49	µg/Kg	UJ	L	b
			aroclor 1221	<	98	µg/Kg	UJ	L	b
			aroclor 1232	<	49	µg/Kg	UJ	L	b
			aroclor 1242	<	49	µg/Kg	UJ	L	b
			aroclor 1248	<	49	µg/Kg	UJ	L	b
			aroclor 1254	<	188	µg/Kg	UJ	L	b
DN39H	01NE28SD172	SX	aroclor 1016	<	290	µg/Kg	UJ	L	b
			aroclor 1221	<	570	µg/Kg	UJ	L	b
			aroclor 1232	<	290	µg/Kg	UJ	L	b
			aroclor 1242	<	290	µg/Kg	UJ	L	b
			aroclor 1248	<	290	µg/Kg	UJ	L	b
			aroclor 1254	<	290	µg/Kg	UJ	L	b
			aroclor 1260	<	290	µg/Kg	UJ	L	b
DN71D	01NE09MW103	WX	aroclor 1016	<	1	µg/L	UJ	L	b
			aroclor 1221	<	2	µg/L	UJ	L	b
			aroclor 1232	<	1	µg/L	UJ	L	b
			aroclor 1242	<	1	µg/L	UJ	L	b
			aroclor 1248	<	1	µg/L	UJ	L	b
			aroclor 1254	<	1	µg/L	UJ	L	b
			aroclor 1260	<	1	µg/L	UJ	L	b

Table 6 - Surrogate Qualifications (b)

Analysis Type: ***Polynuclear Aromatic Hydrocarbon***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN06H	01NE28SD141	SX	2-methylnaphthalene		260	µg/Kg	J	L	b
			acenaphthene		18	µg/Kg	J	L	b
			acenaphthylene	<	4.1	µg/Kg	UJ	L	b
			anthracene	<	4.1	µg/Kg	UJ	L	b
			benzo(a)anthracene	<	4.1	µg/Kg	UJ	L	b
			benzo(a)pyrene	<	4.1	µg/Kg	UJ	L	b
			benzo(b)fluoranthene	<	4.1	µg/Kg	UJ	L	b
			benzo(g,h,I)perylene	<	4.1	µg/Kg	UJ	L	b
			benzo(k)fluoranthene	<	4.1	µg/Kg	UJ	L	b
			chrysene	<	4.1	µg/Kg	UJ	L	b
			dibenzo(a,h)anthracene	<	4.1	µg/Kg	UJ	L	b
			dibenzofuran		12	µg/Kg	J	L	b
			fluoranthene	<	4.1	µg/Kg	UJ	L	b
			fluorene		48	µg/Kg	J	L	b
			indeno(1,2,3,c,d)pyrene	<	4.1	µg/Kg	UJ	L	b
			naphthalene		200	µg/Kg	J	L	b
			phenanthrene		30	µg/Kg	J	L	b
			pyrene	<	4.1	µg/Kg	UJ	L	b
DN06H-DL	01NE28SD141	SX	2-methylnaphthalene		270	µg/Kg	J	L	b
			acenaphthene		23	µg/Kg	J	L	b
			acenaphthylene	<	12	µg/Kg	UJ	L	b
			anthracene	<	12	µg/Kg	UJ	L	b
			benzo(a)anthracene	<	12	µg/Kg	UJ	L	b
			benzo(a)pyrene	<	12	µg/Kg	UJ	L	b
			benzo(b)fluoranthene	<	12	µg/Kg	UJ	L	b
			benzo(g,h,I)perylene	<	12	µg/Kg	UJ	L	b
			benzo(k)fluoranthene	<	12	µg/Kg	UJ	L	b
			chrysene	<	12	µg/Kg	UJ	L	b
			dibenzo(a,h)anthracene	<	12	µg/Kg	UJ	L	b
			dibenzofuran		13	µg/Kg	J	L	b
			fluoranthene	<	12	µg/Kg	UJ	L	b
			fluorene		50	µg/Kg	J	L	b
			indeno(1,2,3,c,d)pyrene	<	12	µg/Kg	UJ	L	b
			naphthalene		220	µg/Kg	J	L	b
			phenanthrene		34	µg/Kg	J	L	b
			pyrene	<	12	µg/Kg	UJ	L	b

Table 6 - Surrogate Qualifications (b)

Analysis Type: ***Polynuclear Aromatic Hydrocarbon***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN38A	01NE29SD114	SX	2-methylnaphthalene		150	µg/Kg	J	L	b
			acenaphthene		13	µg/Kg	J	L	b
			acenaphthylene	<	8.4	µg/Kg	UJ	L	b
			anthracene	<	8.4	µg/Kg	UJ	L	b
			benzo(a)anthracene	<	8.4	µg/Kg	UJ	L	b
			benzo(a)pyrene	<	8.4	µg/Kg	UJ	L	b
			benzo(b)fluoranthene	<	8.4	µg/Kg	UJ	L	b
			benzo(g,h,I)perylene	<	8.4	µg/Kg	UJ	L	b
			benzo(k)fluoranthene	<	8.4	µg/Kg	UJ	L	b
			chrysene	<	8.4	µg/Kg	UJ	L	b
			dibenzo(a,h)anthracene	<	8.4	µg/Kg	UJ	L	b
			dibenzofuran	<	8.4	µg/Kg	UJ	L	b
			fluoranthene	<	8.4	µg/Kg	UJ	L	b,n
			fluorene		17	µg/Kg	J	L	b
			indeno(1,2,3,c,d)pyrene	<	8.4	µg/Kg	UJ	L	b
			naphthalene		31	µg/Kg	J	L	b
			phenanthrene		11	µg/Kg	J	L	b,n
			pyrene	<	8.4	µg/Kg	UJ	L	b
DN38L	01NE28SD169	SX	2-methylnaphthalene		38000	µg/Kg	J	L	b
			acenaphthene		7900	µg/Kg	J	L	b
			acenaphthylene	<	1300	µg/Kg	UJ	L	b
			anthracene	<	1300	µg/Kg	UJ	L	b
			benzo(a)anthracene	<	1300	µg/Kg	UJ	L	b
			benzo(a)pyrene	<	1300	µg/Kg	UJ	L	b
			benzo(b)fluoranthene	<	1300	µg/Kg	UJ	L	b
			benzo(g,h,I)perylene	<	1300	µg/Kg	UJ	L	b
			benzo(k)fluoranthene	<	1300	µg/Kg	UJ	L	b
			chrysene	<	1300	µg/Kg	UJ	L	b
			dibenzo(a,h)anthracene	<	1300	µg/Kg	UJ	L	b
			dibenzofuran		1400	µg/Kg	J	L	b
			fluoranthene	<	1300	µg/Kg	UJ	L	b
			fluorene		8800	µg/Kg	J	L	b
			indeno(1,2,3,c,d)pyrene	<	1300	µg/Kg	UJ	L	b
			naphthalene		9900	µg/Kg	J	L	b
			phenanthrene		3700	µg/Kg	J	L	b
			pyrene	<	1300	µg/Kg	UJ	L	b

Table 6 - Surrogate Qualifications (b)

Analysis Type: ***Polynuclear Aromatic Hydrocarbon***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN39K	01NE28SD175	SX	2-methylnaphthalene	<	33	µg/Kg	UJ	L	b
			acenaphthene	<	33	µg/Kg	UJ	L	b
			acenaphthylene	<	33	µg/Kg	UJ	L	b
			anthracene	<	33	µg/Kg	UJ	L	b
			benzo(a)anthracene	<	33	µg/Kg	UJ	L	b
			benzo(a)pyrene	<	33	µg/Kg	UJ	L	b
			benzo(b)fluoranthene	<	33	µg/Kg	UJ	L	b
			benzo(g,h,I)perylene	<	33	µg/Kg	UJ	L	b
			benzo(k)fluoranthene	<	33	µg/Kg	UJ	L	b
			chrysene	<	33	µg/Kg	UJ	L	b
			dibenzo(a,h)anthracene	<	33	µg/Kg	UJ	L	b
			dibenzofuran	<	33	µg/Kg	UJ	L	b
			fluoranthene	<	33	µg/Kg	UJ	L	b
			fluorene	<	33	µg/Kg	UJ	L	b
			indeno(1,2,3,c,d)pyrene	<	33	µg/Kg	UJ	L	b
			naphthalene	<	33	µg/Kg	UJ	L	b
			phenanthrene	<	33	µg/Kg	UJ	L	b
			pyrene	<	33	µg/Kg	UJ	L	b
DN39K-RE	01NE28SD175	SX	2-methylnaphthalene		21	µg/Kg	J	L	e,b
			acenaphthene	<	11	µg/Kg	UJ	L	e,b
			acenaphthylene	<	11	µg/Kg	UJ	L	e,b
			anthracene	<	11	µg/Kg	UJ	L	e,b
			benzo(a)anthracene	<	11	µg/Kg	UJ	L	e,b
			benzo(a)pyrene	<	11	µg/Kg	UJ	L	e,b
			benzo(b)fluoranthene	<	11	µg/Kg	UJ	L	e,b
			benzo(g,h,I)perylene	<	11	µg/Kg	UJ	L	e,b
			benzo(k)fluoranthene	<	11	µg/Kg	UJ	L	e,b
			chrysene	<	11	µg/Kg	UJ	L	e,b
			dibenzo(a,h)anthracene	<	11	µg/Kg	UJ	L	e,b
			dibenzofuran	<	11	µg/Kg	UJ	L	e,b
			fluoranthene	<	11	µg/Kg	UJ	L	e,b
			fluorene	<	11	µg/Kg	UJ	L	e,b
			indeno(1,2,3,c,d)pyrene	<	11	µg/Kg	UJ	L	e,b
			naphthalene	<	11	µg/Kg	UJ	L	e,b
			phenanthrene	<	11	µg/Kg	UJ	L	e,b
			pyrene	<	11	µg/Kg	UJ	L	e,b

Table 6 - Surrogate Qualifications (b)

Analysis Type: ***Polynuclear Aromatic Hydrocarbon***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN40E	01NE29SD128	SX	2-methylnaphthalene	<	8.7	µg/Kg	UJ	L	b
			acenaphthene	<	8.7	µg/Kg	UJ	L	b
			acenaphthylene	<	8.7	µg/Kg	UJ	L	b
			anthracene	<	8.7	µg/Kg	UJ	L	b
			benzo(a)anthracene	<	8.7	µg/Kg	UJ	L	b
			benzo(a)pyrene	<	8.7	µg/Kg	UJ	L	b
			benzo(b)fluoranthene	<	8.7	µg/Kg	UJ	L	b
			benzo(g,h,I)perylene	<	8.7	µg/Kg	UJ	L	b
			benzo(k)fluoranthene	<	8.7	µg/Kg	UJ	L	b
			chrysene	<	8.7	µg/Kg	UJ	L	b
			dibenzo(a,h)anthracene	<	8.7	µg/Kg	UJ	L	b
			dibenzofuran	<	8.7	µg/Kg	UJ	L	b
			fluoranthene	<	8.7	µg/Kg	UJ	L	b
			fluorene	<	8.7	µg/Kg	UJ	L	b
			indeno(1,2,3,c,d)pyrene	<	8.7	µg/Kg	UJ	L	b
			naphthalene	<	8.7	µg/Kg	UJ	L	b
			phenanthrene	<	8.7	µg/Kg	UJ	L	b
			pyrene	<	8.7	µg/Kg	UJ	L	b
DN40N	01NE29SD126	SX	2-methylnaphthalene	<	8.3	µg/Kg	UJ	L	b
			acenaphthene	<	8.3	µg/Kg	UJ	L	b
			acenaphthylene	<	8.3	µg/Kg	UJ	L	b
			anthracene	<	8.3	µg/Kg	UJ	L	b
			benzo(a)anthracene	<	8.3	µg/Kg	UJ	L	b
			benzo(a)pyrene	<	8.3	µg/Kg	UJ	L	b
			benzo(b)fluoranthene	<	8.3	µg/Kg	UJ	L	b
			benzo(g,h,I)perylene	<	8.3	µg/Kg	UJ	L	b
			benzo(k)fluoranthene	<	8.3	µg/Kg	UJ	L	b
			chrysene	<	8.3	µg/Kg	UJ	L	b
			dibenzo(a,h)anthracene	<	8.3	µg/Kg	UJ	L	b
			dibenzofuran	<	8.3	µg/Kg	UJ	L	b
			fluoranthene	<	8.3	µg/Kg	UJ	L	b
			fluorene	<	8.3	µg/Kg	UJ	L	b
			indeno(1,2,3,c,d)pyrene	<	8.3	µg/Kg	UJ	L	b
			naphthalene	<	8.3	µg/Kg	UJ	L	b
			phenanthrene	<	8.3	µg/Kg	UJ	L	b
			pyrene	<	8.3	µg/Kg	UJ	L	b

Table 6 - Surrogate Qualifications (b)

Analysis Type: ***Polynuclear Aromatic Hydrocarbon***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN40N-RE	01NE29SD126	SX	2-methylnaphthalene	<	8.5	µg/Kg	UJ	L	b,e
			acenaphthene	<	8.5	µg/Kg	UJ	L	b,e
			acenaphthylene	<	8.5	µg/Kg	UJ	L	b,e
			anthracene	<	8.5	µg/Kg	UJ	L	b,e
			benzo(a)anthracene	<	8.5	µg/Kg	UJ	L	b,e
			benzo(a)pyrene	<	8.5	µg/Kg	UJ	L	b,e
			benzo(b)fluoranthene	<	8.5	µg/Kg	UJ	L	b,e
			benzo(g,h,I)perylene	<	8.5	µg/Kg	UJ	L	b,e
			benzo(k)fluoranthene	<	8.5	µg/Kg	UJ	L	b,e
			chrysene	<	8.5	µg/Kg	UJ	L	b,e
			dibenzo(a,h)anthracene	<	8.5	µg/Kg	UJ	L	b,e
			dibenzofuran	<	8.5	µg/Kg	UJ	L	b,e
			fluoranthene	<	8.5	µg/Kg	UJ	L	b,e
			fluorene	<	8.5	µg/Kg	UJ	L	b,e
			indeno(1,2,3,c,d)pyrene	<	8.5	µg/Kg	UJ	L	b,e
			naphthalene	<	8.5	µg/Kg	UJ	L	b,e
			phenanthrene	<	8.5	µg/Kg	UJ	L	b,e
			pyrene	<	8.5	µg/Kg	UJ	L	b,e
DN55D	01NE34SS101	SX	2-methylnaphthalene	<	2.6	µg/Kg	UJ	L	b
			acenaphthene	<	2.6	µg/Kg	UJ	L	b
			acenaphthylene	<	2.6	µg/Kg	UJ	L	b
			anthracene	<	2.6	µg/Kg	UJ	L	b
			benzo(a)anthracene	<	2.6	µg/Kg	UJ	L	b
			benzo(a)pyrene	<	2.6	µg/Kg	UJ	L	b
			benzo(b)fluoranthene	<	2.6	µg/Kg	UJ	L	b
			benzo(g,h,I)perylene	<	2.6	µg/Kg	UJ	L	b
			benzo(k)fluoranthene	<	2.6	µg/Kg	UJ	L	b
			chrysene	<	2.6	µg/Kg	UJ	L	b
			dibenzo(a,h)anthracene	<	2.6	µg/Kg	UJ	L	b
			dibenzofuran	<	2.6	µg/Kg	UJ	L	b
			fluoranthene	<	2.6	µg/Kg	UJ	L	b
			fluorene	<	2.6	µg/Kg	UJ	L	b
			indeno(1,2,3,c,d)pyrene	<	2.6	µg/Kg	UJ	L	b
			naphthalene	<	2.6	µg/Kg	UJ	L	b
			phenanthrene	<	2.6	µg/Kg	UJ	L	b
			pyrene	<	2.6	µg/Kg	UJ	L	b

Table 6 - Surrogate Qualifications (b)

Analysis Type: ***Polynuclear Aromatic Hydrocarbon***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN76E	01NE09SD108	SX	2-methylnaphthalene	<	22	µg/Kg	UJ	L	b
			acenaphthene	<	22	µg/Kg	UJ	L	b
			acenaphthylene	<	22	µg/Kg	UJ	L	b
			anthracene	<	22	µg/Kg	UJ	L	b
			benzo(a)anthracene	<	22	µg/Kg	UJ	L	b
			benzo(a)pyrene	<	22	µg/Kg	UJ	L	b
			benzo(b)fluoranthene	<	22	µg/Kg	UJ	L	b
			benzo(g,h,I)perylene	<	22	µg/Kg	UJ	L	b
			benzo(k)fluoranthene	<	22	µg/Kg	UJ	L	b
			chrysene	<	22	µg/Kg	UJ	L	b
			dibenzo(a,h)anthracene	<	22	µg/Kg	UJ	L	b
			dibenzofuran	<	22	µg/Kg	UJ	L	b
			fluoranthene	<	22	µg/Kg	UJ	L	b
			fluorene	<	22	µg/Kg	UJ	L	b
			indeno(1,2,3,c,d)pyrene	<	22	µg/Kg	UJ	L	b
			naphthalene	<	22	µg/Kg	UJ	L	b
			phenanthrene	<	22	µg/Kg	UJ	L	b
			pyrene	<	22	µg/Kg	UJ	L	b
DN76H	01NE30SS103	SX	2-methylnaphthalene	<	53	µg/Kg	UJ	L	b
			acenaphthene	<	53	µg/Kg	UJ	L	b
			acenaphthylene	<	53	µg/Kg	UJ	L	b
			anthracene	<	53	µg/Kg	UJ	L	b
			benzo(a)anthracene	<	53	µg/Kg	UJ	L	b
			benzo(a)pyrene	<	53	µg/Kg	UJ	L	b
			benzo(b)fluoranthene	<	53	µg/Kg	UJ	L	b
			benzo(g,h,I)perylene	<	53	µg/Kg	UJ	L	b
			benzo(k)fluoranthene	<	53	µg/Kg	UJ	L	b
			chrysene	<	53	µg/Kg	UJ	L	b
			dibenzo(a,h)anthracene	<	53	µg/Kg	UJ	L	b
			dibenzofuran	<	53	µg/Kg	UJ	L	b
			fluoranthene	<	53	µg/Kg	UJ	L	b
			fluorene	<	53	µg/Kg	UJ	L	b
			indeno(1,2,3,c,d)pyrene	<	53	µg/Kg	UJ	L	b
			naphthalene	<	53	µg/Kg	UJ	L	b
			phenanthrene	<	53	µg/Kg	UJ	L	b
			pyrene	<	53	µg/Kg	UJ	L	b

Table 6 - Surrogate Qualifications (b)

Analysis Type: ***Polynuclear Aromatic Hydrocarbon***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN76P	01NE09SD113	SX	2-methylnaphthalene	<	36	µg/Kg	UJ	L	b
			acenaphthene	<	36	µg/Kg	UJ	L	b
			acenaphthylene	<	36	µg/Kg	UJ	L	b
			anthracene	<	36	µg/Kg	UJ	L	b
			benzo(a)anthracene	<	36	µg/Kg	UJ	L	b
			benzo(a)pyrene	<	36	µg/Kg	UJ	L	b
			benzo(b)fluoranthene	<	36	µg/Kg	UJ	L	b
			benzo(g,h,I)perylene	<	36	µg/Kg	UJ	L	b
			benzo(k)fluoranthene	<	36	µg/Kg	UJ	L	b
			chrysene	<	36	µg/Kg	UJ	L	b
			dibenzo(a,h)anthracene	<	36	µg/Kg	UJ	L	b
			dibenzofuran	<	36	µg/Kg	UJ	L	b
			fluoranthene	<	36	µg/Kg	UJ	L	b
			fluorene	<	36	µg/Kg	UJ	L	b
			indeno(1,2,3,c,d)pyrene	<	36	µg/Kg	UJ	L	b
			naphthalene	<	36	µg/Kg	UJ	L	b
			phenanthrene	<	36	µg/Kg	UJ	L	b
			pyrene	<	36	µg/Kg	UJ	L	b

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
100553-01	01NE07WP302	WX	2-chloronaphthalene	<	0.095	µg/L	UJ	L	b
			2-methylnaphthalene	<	0.095	µg/L	UJ	L	b
			acenaphthene	<	0.095	µg/L	UJ	L	b
			acenaphthylene	<	0.095	µg/L	UJ	L	b
			anthracene	<	0.095	µg/L	UJ	L	b
			benzo(a)anthracene	<	0.095	µg/L	UJ	L	b
			benzo(a)pyrene	<	0.095	µg/L	UJ	L	b
			benzo(b)fluoranthene	<	0.095	µg/L	UJ	L	b
			benzo(g,h,I)perylene	<	0.095	µg/L	UJ	L	b
			benzo(k)fluoranthene	<	0.095	µg/L	UJ	L	b
			chrysene	<	0.095	µg/L	UJ	L	b
			dibenzo(a,h)anthracene	<	0.095	µg/L	UJ	L	b
			fluoranthene	<	0.095	µg/L	UJ	L	b
			fluorene	<	0.095	µg/L	UJ	L	b
			indeno(1,2,3,c,d)pyrene	<	0.095	µg/L	UJ	L	b
			naphthalene	<	0.095	µg/L	UJ	L	b
			phenanthrene	<	0.095	µg/L	UJ	L	b
			pyrene	<	0.095	µg/L	UJ	L	b

Table 7 - Laboratory Blank Qualifications (a)

Due to laboratory blank contamination, the following detected results are qualified as nondetected:

Analysis Type: ***Diesel / Residual Range Organics***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
DN73C	01NE06WP103	WX	diesel range organics	0.29	mg/L	B	H	a
DN73F	01NE04WP104	WX	diesel range organics	0.96	mg/L	B	H	a
DN73G	01NE04WP102	WX	diesel range organics	1.4	mg/L	B	H	a

Table 7 - Laboratory Blank Qualifications (a)

Analysis Type: ***Gasoline Range Organics***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
100492-02	01NE21SW313	WX	gasoline range organics	0.04	mg/L	B	H	a
100492-03	01NE00TB112	WX	gasoline range organics	0.029	mg/L	B	H	a

Table 7 - Laboratory Blank Qualifications (a)

Analysis Type: ***Semivolatile Organics***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
DN53C	01NE16GW101	WX	bis(2-ethylhexyl)phthalate	2.5	µg/L	B	H	a
DN53D	01NE16GW201	WX	bis(2-ethylhexyl)phthalate	2.2	µg/L	B	H	a
DN53E	01NE16GW102	WX	bis(2-ethylhexyl)phthalate	1.4	µg/L	B	H	a

Table 7 - Laboratory Blank Qualifications (a)

Analysis Type: ***Total Metals***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
100418-02	01NE09SW307	WX	silver	0.029	mg/L	B	H	a

Table 7 - Laboratory Blank Qualifications (a)

Analysis Type: ***Volatile Organics***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
DN07N	01NE07SS125	SX	bromomethane	98	µg/Kg	B	H	a
DN07O	01NE07SS126	SX	bromomethane	200	µg/Kg	B	H	a
DN07P	01NE07SS127	SX	bromomethane	170	µg/Kg	B	H	a
DN07Q	01NE07SD105	SX	bromomethane	400	µg/Kg	B	H	a
DN07R	01NE07SD104	SX	bromomethane	170	µg/Kg	B	H	a
DN68C	01NE09SD108	SX	bromomethane	360	µg/Kg	B	H	a
DN68L	01NE00TB111	SX	bromomethane	90	µg/Kg	B	H	a

Table 8 - Field Blank Qualifications (k)

The following detected results are qualified as nondetected due to field blank contamination:

Analysis Type: BTEX

Labcode: ARI

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
DN07K	01NE06SD116	SX	ethylbenzene	12	µg/Kg	B	H	k
			m,p-xylene	44	µg/Kg	B	H	k
			o-xylene	14	µg/Kg	B	H	k
			toluene	78	µg/Kg	B	H	k
DN07L	01NE06SD117	SX	ethylbenzene	0.88	µg/Kg	B	H	k
			m,p-xylene	3.3	µg/Kg	B	H	k
			o-xylene	1	µg/Kg	B	H	k
			toluene	4.7	µg/Kg	B	H	k
DN40J	01NE29SD128	SX	toluene	6.4	µg/Kg	B	H	k
DN40K	01NE29SD129	SX	m,p-xylene	3.2	µg/Kg	B	H	k
			toluene	4.7	µg/Kg	B	H	k
DN40M	01NE29SD127	SX	toluene	9.7	µg/Kg	B	H	k
DN40N	01NE29SD126	SX	toluene	7.4	µg/Kg	B	H	k
DN68A	01NE21SS169	SX	toluene	39	µg/Kg	B	H	k
DN68K	01NE09SS171	SX	toluene	9	µg/Kg	B	H	k
DN69N	01NE31SS121	SX	toluene	12	µg/Kg	B	H	k
DN69P	01NE31SS123	SX	m,p-xylene	17	µg/Kg	B	H	k
			o-xylene	5.3	µg/Kg	B	H	k
			toluene	24	µg/Kg	B	H	k
DN69Q	01NE31SS124	SX	toluene	7.3	µg/Kg	B	H	k
DN69R	01NE31SS221	SX	m,p-xylene	9	µg/Kg	B	H	k
			toluene	14	µg/Kg	B	H	k
DN70A	01NE21SB170	SX	toluene	7.2	µg/Kg	B	H	k
DN70B	01NE21SS170	SX	m,p-xylene	7.4	µg/Kg	B	H	k
			toluene	11	µg/Kg	B	H	k
DN70C	01NE24SD114	SX	toluene	3.2	µg/Kg	B	H	k
DN70D	01NE21SD113	SX	toluene	55	µg/Kg	B	H	k
DN70E	01NE24SD214	SX	toluene	17	µg/Kg	B	H	k

Table 8 - Field Blank Qualifications (k)

Analysis Type: ***BTEX***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
DN70F	01NE21SB169	SX	ethylbenzene	6.7	µg/Kg	B	H	k
			m,p-xylene	21	µg/Kg	B	H	k
			o-xylene	6.3	µg/Kg	B	H	k
			toluene	24	µg/Kg	B	H	k
DN70G	01NE21SB171	SX	m,p-xylene	23	µg/Kg	B	H	k
			toluene	41	µg/Kg	B	H	k
DN70H	01NE21SS172	SX	m,p-xylene	96	µg/Kg	B	H	k
			toluene	140	µg/Kg	B	H	k
DN70I	01NE21SD114	SX	m,p-xylene	10	µg/Kg	B	H	k
			toluene	19	µg/Kg	B	H	k
DN70J	01NE21SS173	SX	m,p-xylene	32	µg/Kg	B	H	k
			toluene	73	µg/Kg	B	H	k
DN70K	01NE24SD115	SX	ethylbenzene	8.8	µg/Kg	B	H	k
			m,p-xylene	30	µg/Kg	B	H	k
			o-xylene	9.2	µg/Kg	B	H	k
			toluene	38	µg/Kg	B	H	k

Table 8 - Field Blank Qualifications (k)

Analysis Type: ***Volatile Organics***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
100418-02	01NE09SW307	WX	acetone	0.73	µg/L	B	H	k

Table 9 - Matrix Spike Qualifications (c)

Due to matrix spike accuracy problems, the following results are qualified as estimated:

Analysis Type: ***Diesel / Residual Range Organics***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
DN05F	01NE28SD158	SX	diesel range organics	3800	mg/Kg	J	N	c,f
DN06E	01NE28SD139	SX	diesel range organics	520	mg/Kg	J	N	c,f,n
DN68B	01NE21SS269	SX	diesel range organics	220	mg/Kg	J	N	c,f
DN76P	01NE09SD113	SX	diesel range organics	270	mg/Kg	J	H	c,f

Table 9 - Matrix Spike Qualifications (c)

Analysis Type: ***Organochlorine Pesticides / PCBs***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
DN68V	01NE32SS104	SX	aroclor 1260	160	µg/Kg	J	H	b,c

Table 9 - Matrix Spike Qualifications (c)

Analysis Type: ***Polynuclear Aromatic Hydrocarbons***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
100302-02	01NE28SD311	SX	fluoranthene	110	µg/Kg	J	N	c,f
			phenanthrene	55	µg/Kg	J	N	c,f
			pyrene	66	µg/Kg	J	H	c

Table 9 - Matrix Spike Qualifications (c)

Analysis Type: Total Metals

Labcode: ARI

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN76D	01NE09SD107	SX	antimony	<	30	mg/Kg	UJ	L	c
DN76E	01NE09SD108	SX	antimony	<	20	mg/Kg	UJ	L	c
DN76F	01NE30SS101	SX	antimony	<	10	mg/Kg	UJ	L	c
DN76G	01NE30SD101	SX	antimony		50	mg/Kg	J	L	c
DN76H	01NE30SS103	SX	antimony	<	30	mg/Kg	UJ	L	c
DN76I	01NE30SS102	SX	antimony		15	mg/Kg	J	L	c
DN76J	01NE09SD109	SX	antimony		250	mg/Kg	J	L	c
DN76K	01NE09SD213	SX	antimony	<	30	mg/Kg	UJ	L	c
DN76L	01NE24SD114	SX	antimony		70	mg/Kg	J	L	c
DN76M	01NE24SD115	SX	antimony		11	mg/Kg	J	L	c
DN76O	01NE30SS201	SX	antimony	<	9	mg/Kg	UJ	L	c
DN76P	01NE09SD113	SX	antimony	<	30	mg/Kg	UJ	L	c

Labcode: SAS

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
100413-06	01NE29SW317	WX	mercury	<	0.0002	mg/L	UJ	L	c
100492-08	01NE16SS365	SX	lead		180	mg/Kg	J	H	c

Table 9 - Matrix Spike Qualifications (c)

Analysis Type: ***Volatile Organics***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
100492-13	01NE09SD313	SX	toluene	16	µg/Kg	J	N	c,f,n

Table 10 - Laboratory Control Sample Qualifications (d)

Due to laboratory control sample accuracy problems, the following detected results are qualified as estimated:

Analysis Type: ***Polynuclear Aromatic Hydrocarbons***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
DN06P	01NE28SD149	SX	phenanthrene	1500	µg/Kg	J	H	d

Table 11 - Precision Exceedance Qualifications (f)

Due to MS/MSD, LCS/LCSD or sample duplicate precision problems, the following results are qualified as estimated:

Analysis Type: Diesel / Residual Range Organics

Labcode: ARI

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
DN04B	01NE28SD118	SX	diesel range organics	330	mg/Kg	J	N	f
DN05F	01NE28SD158	SX	diesel range organics	3800	mg/Kg	J	N	c,f
DN06E	01NE28SD139	SX	diesel range organics	520	mg/Kg	J	N	c,f,n
DN68B	01NE21SS269	SX	diesel range organics	220	mg/Kg	J	N	c,f
DN69N	01NE31SS121	SX	diesel range organics	47	mg/Kg	J	N	f
DN76D	01NE09SD107	SX	diesel range organics	320	mg/Kg	J	N	f
DN76P	01NE09SD113	SX	diesel range organics	270	mg/Kg	J	H	c,f

Table 11 - Precision Exceedance Qualifications (f)

Analysis Type: ***Diesel Range Organics***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
100492-11	01NE31SS321	SX	diesel range organics	54	mg/Kg	J	N	f

Table 11 - Precision Exceedance Qualifications (f)

Analysis Type: ***Polynuclear Aromatic Hydrocarbons***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
100302-02	01NE28SD311	SX	fluoranthene		110	µg/Kg	J	N	c,f
			phenanthrene		55	µg/Kg	J	N	c,f
100413-01	01NE29SD325	SX	benzo(b)fluoranthene	<	2	µg/Kg	UJ	N	f
			benzo(k)fluoranthene	<	2	µg/Kg	UJ	N	f

Table 11 - Precision Exceedance Qualifications (f)

Analysis Type: ***Residual Range Organics***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
100413-03	01NE28SD371	SX	residual range organics	2000	mg/Kg	J	N	f

Table 11 - Precision Exceedance Qualifications (f)

Analysis Type: ***Total Metals***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
100302-02	01NE28SD311	SX	zinc	62	mg/Kg	J	N	f
100302-03	01NE28SD325	SX	zinc	43	mg/Kg	J	N	f
100302-04	01NE28SD351	SX	zinc	80	mg/Kg	J	N	f
100302-05	01NE28SD353	SX	zinc	34	mg/Kg	J	N	f
100302-06	01NE28SD357	SX	zinc	43	mg/Kg	J	N	f
100302-08	01NE28SD339	SX	zinc	60	mg/Kg	J	N	f
100492-01	01NE24SW314	WX	lead	0.23	mg/L	J	N	f,n
100492-04	01NE21SS369	SX	lead	19	mg/Kg	J	N	f
100492-09	01NE30SS301	SX	lead	16	mg/Kg	J	N	f
100492-13	01NE09SD313	SX	lead	300	mg/Kg	J	N	f

Table 11 - Precision Exceedance Qualifications (f)

Analysis Type: ***Volatile Organics***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
100492-13	01NE09SD313	SX	toluene	16	µg/Kg	J	N	c,f,n

Table 12 - Below Reporting Limit Qualifications (m)

The following results are below the reporting limit, and are qualified as estimated:

Analysis Type: ***Diesel Range Organics***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	RL	Units	Q	Bias	RC
100302-08	01NE28SD339	SX	diesel range organics	64	86	mg/Kg	J	N	m,n
100492-04	01NE21SS369	SX	diesel range organics	120	140	mg/Kg	J	N	m
100492-13	01NE09SD313	SX	diesel range organics	120	220	mg/Kg	J	N	m

Table 12 - Below Reporting Limit Qualifications (m)

Analysis Type: ***Polynuclear Aromatic Hydrocarbons***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	RL	Units	Q	Bias	RC
100302-05	01NE28SD353	SX	benzo(a)anthracene	24	28	µg/Kg	J	N	m,n

Table 12 - Below Reporting Limit Qualifications (m)

Analysis Type: ***Residual Range Organics***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	RL	Units	Q	Bias	RC
100413-06	01NE29SW317	WX	residual range organics	0.069	0.1	mg/L	J	N	m
100492-02	01NE21SW313	WX	residual range organics	0.073	0.095	mg/L	J	N	m

Table 12 - Below Reporting Limit Qualifications (m)

Analysis Type: ***Total Metals***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	RL	Units	Q	Bias	RC
100413-06	01NE29SW317	WX	aluminum	0.021	0.2	mg/L	J	N	m
			antimony	0.025	0.05	mg/L	J	N	m
			lead	0.0059	0.01	mg/L	J	N	m
			potassium	1.3	2	mg/L	J	N	m
			selenium	0.0075	0.05	mg/L	J	N	m
			silver	0.039	0.1	mg/L	J	N	m
100418-02	01NE09SW307	WX	aluminum	0.056	0.2	mg/L	J	N	m
			antimony	0.016	0.05	mg/L	J	N	m
			barium	0.0046	0.005	mg/L	J	N	m
			potassium	0.17	2	mg/L	J	N	m
100492-01	01NE24SW314	WX	aluminum	0.038	0.2	mg/L	J	N	m
			antimony	0.033	0.05	mg/L	J	N	m
			arsenic	0.0051	0.01	mg/L	J	N	m
			potassium	0.87	2	mg/L	J	N	m
			selenium	0.011	0.05	mg/L	J	N	m
			thallium	0.0074	0.02	mg/L	J	N	m
100492-04	01NE21SS369	SX	antimony	7.5	37	mg/Kg	J	N	m
			arsenic	6	7.5	mg/Kg	J	N	m
			cobalt	1.7	3.7	mg/Kg	J	N	m
			copper	6.7	7.5	mg/Kg	J	N	m
			nickel	3.4	7.5	mg/Kg	J	N	m
			potassium	490	1500	mg/Kg	J	N	m
			selenium	6.3	37	mg/Kg	J	N	m
100492-09	01NE30SS301	SX	antimony	3.9	23	mg/Kg	J	N	m
			beryllium	0.44	0.91	mg/Kg	J	N	m
			potassium	740	910	mg/Kg	J	N	m
100492-13	01NE09SD313	SX	antimony	4.6	62	mg/Kg	J	N	m
			mercury	0.2	0.21	mg/Kg	J	N	m
			potassium	1200	2500	mg/Kg	J	N	m
			silver	6	12	mg/Kg	J	N	m

Table 12 - Below Reporting Limit Qualifications (m)

Analysis Type: ***Volatile Organics***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	RL	Units	Q	Bias	RC
100418-03	01NE00TB110	WX	acetone	0.72	2	µg/L	J	N	m
			tetrachloroethylene	0.18	0.4	µg/L	J	N	m
			trichlorofluoromethane	0.16	0.4	µg/L	J	N	m
100492-13	01NE09SD313	SX	chloromethane	1.2	1.9	µg/Kg	J	N	m,n
100553-01	01NE07WP302	WX	acetone	1.8	2	µg/L	J	N	m
			naphthalene	0.17	0.4	µg/L	J	N	m,n
100553-02	01NE00TB117	WX	chloroform	0.091	0.4	µg/L	J	N	m,p
			styrene	0.34	0.4	µg/L	J	N	m,p
			tetrachloroethylene	0.24	0.4	µg/L	J	N	m,p

Table 13 - Calibration Range Exceedance Qualifications (o)

The following detected results exceeded calibration range, and are qualified as estimated:

Analysis Type: ***Diesel / Residual Range Organics***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
DN39B	01NE28SD160	SX	diesel range organics	58000	mg/Kg	J	N	o
DN39C	01NE28SD161	SX	diesel range organics	60000	mg/Kg	J	N	o
DN39D	01NE28SD163	SX	diesel range organics	49000	mg/Kg	J	N	o
DN39E	01NE28SD164	SX	diesel range organics	48000	mg/Kg	J	N	o
DN39F	01NE28SD263	SX	diesel range organics	50000	mg/Kg	J	N	o
DN39H	01NE28SD172	SX	diesel range organics	5200	mg/Kg	J	L	b,o
DN39P	01NE28SD178	SX	diesel range organics	42000	mg/Kg	J	N	o
DN55H	01NE34SS106	SX	diesel range organics	1200	mg/Kg	J	N	o

Table 13 - Calibration Range Exceedance Qualifications (o)

Analysis Type: ***Diesel Range Organics***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
100302-04	01NE28SD351	SX	diesel range organics	17000	mg/Kg	J	N	o
100302-05	01NE28SD353	SX	diesel range organics	13000	mg/Kg	J	N	o

Table 13 - Calibration Range Exceedance Qualifications (o)

Analysis Type: ***Organochlorine Pesticides / PCBs***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
DN68O	01NE31SS102	SX	aroclor 1260	3200	µg/Kg	J	N	o
DN68Q	01NE31SS103	SX	aroclor 1260	3000	µg/Kg	J	N	o
DN68R	01NE31SS104	SX	aroclor 1260	3200	µg/Kg	J	N	o
DQ74B	01NE16SS168	SX	4,4'-DDT	140	µg/Kg	J	L	b,o
DQ74C	01NE28SD183	SX	4,4'-DDD	200	µg/Kg	J	L	b,o
DQ74F	01NE28SD186	SX	4,4'-DDD	290	µg/Kg	J	N	o

Table 13 - Calibration Range Exceedance Qualifications (o)

Analysis Type: ***Polynuclear Aromatic Hydrocarbons***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
DN04D	01NE28SD120	SX	2-methylnaphthalene	5500	µg/Kg	J	N	o
			naphthalene	1600	µg/Kg	J	N	o
DN04G	01NE28SD123	SX	naphthalene	1500	µg/Kg	J	N	o
DN04H	01NE28SD124	SX	naphthalene	3500	µg/Kg	J	N	o
			2-methylnaphthalene	5000	µg/Kg	J	N	o
DN04I	01NE28SD125	SX	naphthalene	3100	µg/Kg	J	N	o
			2-methylnaphthalene	5600	µg/Kg	J	N	o
DN04K	01NE28SD127	SX	2-methylnaphthalene	30000	µg/Kg	J	N	o
DN04M	01NE28SD225	SX	naphthalene	4400	µg/Kg	J	N	o
			2-methylnaphthalene	9700	µg/Kg	J	N	o
DN04N	01NE28SD129	SX	2-methylnaphthalene	3700	µg/Kg	J	N	o
			naphthalene	4700	µg/Kg	J	N	o
DN04S-RE	01NE28SD134	SX	2-methylnaphthalene	25000	µg/Kg	J	L	e,o
DN05B	01NE28SD154	SX	2-methylnaphthalene	18000	µg/Kg	J	N	o
DN05C	01NE28SD155	SX	2-methylnaphthalene	260000	µg/Kg	J	N	o
			naphthalene	130000	µg/Kg	J	N	o
DN05D	01NE28SD156	SX	naphthalene	110000	µg/Kg	J	N	o
			2-methylnaphthalene	250000	µg/Kg	J	N	o
DN05F	01NE28SD158	SX	naphthalene	6500	µg/Kg	J	N	o
			2-methylnaphthalene	14000	µg/Kg	J	N	o
DN06E	01NE28SD139	SX	pyrene	1000	µg/Kg	J	N	n,o
			phenanthrene	990	µg/Kg	J	N	n,o
			fluoranthene	890	µg/Kg	J	N	n,o
DN06I	01NE28SD142	SX	2-methylnaphthalene	620	µg/Kg	J	N	o
DN06J	01NE28SD143	SX	naphthalene	23000	µg/Kg	J	N	o
			2-methylnaphthalene	52000	µg/Kg	J	N	o
DN06K	01NE28SD144	SX	naphthalene	18000	µg/Kg	J	N	o
			2-methylnaphthalene	41000	µg/Kg	J	N	o
DN06L	01NE28SD145	SX	2-methylnaphthalene	33000	µg/Kg	J	N	o
DN06M	01NE28SD146	SX	naphthalene	140000	µg/Kg	J	N	o
			2-methylnaphthalene	280000	µg/Kg	J	N	o

Table 13 - Calibration Range Exceedance Qualifications (o)

Analysis Type: ***Polynuclear Aromatic Hydrocarbons***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
DN06O	01NE28SD148	SX	2-methylnaphthalene	39000	µg/Kg	J	N	o
			naphthalene	17000	µg/Kg	J	N	o
DN07I	01NE28SD115	SX	2-methylnaphthalene	6700	µg/Kg	J	N	o
DN39C	01NE28SD161	SX	2-methylnaphthalene	260000	µg/Kg	J	N	o

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
100302-03	01NE28SD325	SX	2-methylnaphthalene	1900	µg/Kg	J	N	o
100302-04	01NE28SD351	SX	2-methylnaphthalene	19000	µg/Kg	J	N	o

Table 13 - Calibration Range Exceedance Qualifications (o)

Analysis Type: ***Residual Range Organics***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
100492-05	01NE31SS320	SX	residual range organics	14000	mg/Kg	J	N	o

Table 13 - Calibration Range Exceedance Qualifications (o)

Estimated data are usable for limited purposes. The reported result should be considered an estimated value.

Table 14 - QA/QC Triplicate Qualifications (n)

Due to major disagreement between the primary, QC and QA sample results, the following results are qualified as estimated:

Analysis Type: ***Diesel / Residual Range Organics***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN06E	01NE28SD139	SX	diesel range organics		520	mg/Kg	J	N	c,f,n
DN06G	01NE28SD239	SX	diesel range organics		610	mg/Kg	J	N	n
DN78A	01NE31SS105	SX	motor oil	<	500	mg/Kg	UJ	N	n
DN78B	01NE31SS205	SX	motor oil	<	500	mg/Kg	UJ	N	n

Table 14 - QA/QC Triplicate Qualifications (n)

Analysis Type: ***Diesel Range Organics***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
100302-08	01NE28SD339	SX	diesel range organics	64	mg/Kg	J	N	m,n

Table 14 - QA/QC Triplicate Qualifications (n)

Analysis Type: ***Polynuclear Aromatic Hydrocarbons***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN04I	01NE28SD125	SX	fluorene		140	µg/Kg	J	N	n
			phenanthrene		49	µg/Kg	J	N	n
DN04M	01NE28SD225	SX	fluorene		280	µg/Kg	J	N	n
			phenanthrene		110	µg/Kg	J	N	n
DN05A	01NE28SD153	SX	acenaphthene		1300	µg/Kg	J	N	n
			benzo(a)anthracene	<	670	µg/Kg	UJ	N	n
			chrysene	<	670	µg/Kg	UJ	N	n
			fluorene		1600	µg/Kg	J	N	n
			naphthalene		1600	µg/Kg	J	N	n
DN05E	01NE28SD157	SX	acenaphthene		200	µg/Kg	J	N	n
			fluorene		200	µg/Kg	J	N	n
DN05G	01NE28SD253	SX	acenaphthene		1200	µg/Kg	J	N	n
			benzo(a)anthracene	<	570	µg/Kg	UJ	N	n
			chrysene	<	570	µg/Kg	UJ	N	n
			fluorene		1400	µg/Kg	J	N	n
			naphthalene		1400	µg/Kg	J	N	n
DN05H	01NE28SD257	SX	acenaphthene	<	71	µg/Kg	UJ	N	n
			fluorene	<	71	µg/Kg	UJ	N	n
DN06E	01NE28SD139	SX	2-methylnaphthalene		34	µg/Kg	J	N	n
			acenaphthene		100	µg/Kg	J	N	n
			anthracene		33	µg/Kg	J	N	n
			benzo(a)anthracene		230	µg/Kg	J	N	n
			benzo(a)pyrene		320	µg/Kg	J	N	n
			benzo(b)fluoranthene		420	µg/Kg	J	N	n
			benzo(g,h,I)perylene		71	µg/Kg	J	N	n
			benzo(k)fluoranthene		300	µg/Kg	J	N	n
			chrysene		380	µg/Kg	J	N	n
			dibenzo(a,h)anthracene		29	µg/Kg	J	N	n
			dibenzofuran		75	µg/Kg	J	N	n
			fluoranthene		890	µg/Kg	J	N	n,o
			fluorene		100	µg/Kg	J	N	n
			indeno(1,2,3,c,d)pyrene		89	µg/Kg	J	N	n
			naphthalene		50	µg/Kg	J	N	n
			phenanthrene		990	µg/Kg	J	N	n,o
			pyrene		1000	µg/Kg	J	N	n,o

Table 14 - QA/QC Triplicate Qualifications (n)

Analysis Type: ***Polynuclear Aromatic Hydrocarbons***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN06G	01NE28SD239	SX	2-methylnaphthalene		14	µg/Kg	J	N	n
			acenaphthene		8.6	µg/Kg	UJ	N	n
			anthracene	<	4.8	µg/Kg	UJ	N	n
			benzo(a)anthracene	<	4.8	µg/Kg	UJ	N	n
			benzo(a)pyrene	<	4.8	µg/Kg	UJ	N	n
			benzo(b)fluoranthene	<	4.8	µg/Kg	UJ	N	n
			benzo(g,h,I)perylene	<	4.8	µg/Kg	UJ	N	n
			benzo(k)fluoranthene	<	4.8	µg/Kg	UJ	N	n
			chrysene	<	4.8	µg/Kg	UJ	N	n
			dibenzo(a,h)anthracene	<	4.8	µg/Kg	UJ	N	n
			dibenzofuran	<	4.8	µg/Kg	UJ	N	n
			fluoranthene	<	4.8	µg/Kg	UJ	N	n
			fluorene		7.2	µg/Kg	J	N	n
			indeno(1,2,3,c,d)pyrene	<	4.8	µg/Kg	UJ	N	n
			naphthalene		14	µg/Kg	J	N	n
			phenanthrene	<	4.8	µg/Kg	UJ	N	n
			pyrene	<	4.8	µg/Kg	UJ	N	n
DN06R	01NE28SD151	SX	acenaphthene		1200	µg/Kg	J	N	n
			acenaphthylene	<	700	µg/Kg	UJ	N	n
			benzo(k)fluoranthene	<	700	µg/Kg	UJ	N	n
			fluorene		2400	µg/Kg	J	N	n
DN06S	01NE28SD251	SX	acenaphthene		1500	µg/Kg	J	N	n
			acenaphthylene	<	680	µg/Kg	UJ	N	n
			benzo(k)fluoranthene	<	680	µg/Kg	UJ	N	n
			fluorene		2400	µg/Kg	J	N	n
DN38A	01NE29SD114	SX	fluoranthene	<	8.4	µg/Kg	UJ	L	b,n
			phenanthrene		11	µg/Kg	J	L	b,n
DN38B	01NE29SD214	SX	fluoranthene		36	µg/Kg	J	N	n
			phenanthrene		63	µg/Kg	J	N	n
DN39D	01NE28SD163	SX	2-methylnaphthalene		2700	µg/Kg	J	N	n
			acenaphthene		2300	µg/Kg	J	N	n
			naphthalene		9500	µg/Kg	J	N	n
DN39F	01NE28SD263	SX	2-methylnaphthalene		2700	µg/Kg	J	N	n
			acenaphthene		2400	µg/Kg	J	N	n
			naphthalene		9700	µg/Kg	J	N	n

Table 14 - QA/QC Triplicate Qualifications (n)

Analysis Type: ***Polynuclear Aromatic Hydrocarbons***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
100302-03	01NE28SD325	SX	fluorene		52	µg/Kg	J	N	n
			phenanthrene		16	µg/Kg	J	N	n
100302-04	01NE28SD351	SX	acenaphthene	<	23	µg/Kg	UJ	N	n
			acenaphthylene	<	23	µg/Kg	UJ	N	n
			benzo(k)fluoranthene		23	µg/Kg	J	N	n
			fluorene	<	23	µg/Kg	UJ	N	n
100302-05	01NE28SD353	SX	acenaphthene	<	14	µg/Kg	UJ	N	n
			benzo(a)anthracene		24	µg/Kg	J	N	m,n
			chrysene		48	µg/Kg	J	N	n
			fluorene	<	14	µg/Kg	UJ	N	n
			naphthalene	<	14	µg/Kg	UJ	N	n
100302-06	01NE28SD357	SX	acenaphthene	<	20	µg/Kg	UJ	N	n
			fluorene	<	20	µg/Kg	UJ	N	n
100302-08	01NE28SD339	SX	2-methylnaphthalene		4	µg/Kg	J	N	n
			acenaphthene	<	3.6	µg/Kg	UJ	N	n
			anthracene	<	3.6	µg/Kg	UJ	N	n
			benzo(a)anthracene	<	7.3	µg/Kg	UJ	N	n
			benzo(a)pyrene	<	3.6	µg/Kg	UJ	N	n
			benzo(b)fluoranthene	<	3.6	µg/Kg	UJ	N	n
			benzo(g,h,I)perylene	<	3.6	µg/Kg	UJ	N	n
			benzo(k)fluoranthene	<	3.6	µg/Kg	UJ	N	n
			chrysene	<	7.3	µg/Kg	UJ	N	n
			dibenzo(a,h)anthracene	<	3.6	µg/Kg	UJ	N	n
			fluoranthene	<	3.6	µg/Kg	UJ	N	n
			fluorene	<	3.6	µg/Kg	UJ	N	n
			indeno(1,2,3,c,d)pyrene	<	3.6	µg/Kg	UJ	N	n
			naphthalene		5.1	µg/Kg	J	N	n
			phenanthrene	<	3.6	µg/Kg	UJ	N	n
			pyrene	<	3.6	µg/Kg	UJ	N	n
100413-04	01NE28SD363	SX	2-methylnaphthalene	<	210	µg/Kg	UJ	N	n
			acenaphthene	<	210	µg/Kg	UJ	N	n
			naphthalene	<	210	µg/Kg	UJ	N	n
100413-05	01NE29SD314	SX	fluoranthene	<	3.4	µg/Kg	UJ	N	n
			phenanthrene	<	3.4	µg/Kg	UJ	N	n

Table 14 - QA/QC Triplicate Qualifications (n)

Analysis Type: ***Residual Range Organics***

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
100492-06	01NE31SS305	SX	residual range organics	43	mg/Kg	J	N	n

Table 14 - QA/QC Triplicate Qualifications (n)

Analysis Type: ***Total Metals***

Labcode: ***ARI***

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN40C	01NE29SD125	SX	lead		9	mg/Kg	J	N	n
DN40D	01NE29SD225	SX	lead		7	mg/Kg	J	N	n
DN53F	01NE09SW207	WX	lead	<	1	µg/L	UJ	N	n
DN53H	01NE09SW107	WX	lead	<	1	µg/L	UJ	N	n
DN73K	01NE24SW214	WX	lead		1	µg/L	J	N	n
DN73L	01NE24SW114	WX	lead	<	1	µg/L	UJ	N	n
DN76F	01NE30SS101	SX	silver	<	0.7	mg/Kg	UJ	N	n
DN76O	01NE30SS201	SX	silver	<	0.6	mg/Kg	UJ	N	n

Labcode: ***SAS***

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
100413-01	01NE29SD325	SX	lead	25	mg/Kg	J	N	n
100418-02	01NE09SW307	WX	lead	0.019	mg/L	J	N	n
100492-01	01NE24SW314	WX	lead	0.23	mg/L	J	N	f,n
100492-09	01NE30SS301	SX	silver	14	mg/Kg	J	N	n

Table 14 - QA/QC Triplicate Qualifications (n)

Analysis Type: Volatile Organics

Labcode: ARI

Lab ID	Field ID	Matrix	Analyte		Result	Units	Q	Bias	RC
DN68G	01NE09SD113	SX	2-butanone	<	1400	µg/Kg	UJ	N	n
			carbon disulfide	<	270	µg/Kg	UJ	N	n
			chloromethane	<	270	µg/Kg	UJ	N	n
			toluene	<	270	µg/Kg	UJ	N	n
DN68H	01NE09SD213	SX	2-butanone	<	490	µg/Kg	UJ	N	n
			carbon disulfide	<	98	µg/Kg	UJ	N	n
			chloromethane	<	98	µg/Kg	UJ	N	n
			toluene	<	98	µg/Kg	UJ	N	n
DN88A	01NE07WP102	WX	naphthalene	<	5	µg/L	UJ	N	n
DN88B	01NE07WP202	WX	naphthalene	<	5	µg/L	UJ	N	n

Labcode: SAS

Lab ID	Field ID	Matrix	Analyte	Result	Units	Q	Bias	RC
100492-13	01NE09SD313	SX	2-butanone	56	µg/Kg	J	N	n
			carbon disulfide	20	µg/Kg	J	N	n
			chloromethane	1.2	µg/Kg	J	N	m,n
			toluene	16	µg/Kg	J	N	c,f,n
100553-01	01NE07WP302	WX	naphthalene	0.17	µg/L	J	N	m,n

The CDQR for 2002 was not available at the time this document was published.

APPENDIX F

Quality Assurance/Quality Control Report

MWH

QUALITY ASSURANCE QUALITY CONTROL DATA REVIEW

1.0 INTRODUCTION

MWH Americas, Inc. (MWH) collected soil, water, and tissue samples between July 24 and September 24, 2001 at Northeast Cape, Alaska. Table 1 provides a summary of sample counts by matrix, parameter, and quality control (QC) description. Primary and field duplicate soil and water samples were submitted to Analytical Resource Inc. (ARI) and quality assurance (QA) soil and water samples were submitted to Sound Analytical Services (SAS). Tissue (plant and fish) samples were submitted to Columbia Analytical Services, Inc. (CAS). CAS was unable to perform PCB analysis on the plant tissue sample 01NE28PT3102 due to insufficient sample quantity.

This data review includes data from ARI and CAS only. Samples were reviewed in accordance with established precision, accuracy, reproducibility, comparability, and completeness (PARCC) parameters. PARCC parameters were defined in the Phase III Remedial Investigation Final Work Plan (MWH, 2001). Data were qualified based on the Environmental Protection Agency's National Functional Guidelines (USEPA, 1994 and 1999).

The following specific QC samples, indicators, and associated documentation were reviewed:

Sample Handling Forms (Chain-of-custody [CoCs])
Sample Holding Times
Temperature Blanks
Trip Blanks
Field Duplicates
Method and Instrument Blanks
Surrogates
Continuing Calibration Verification (CCV) Samples
Laboratory Control Samples (LCS) and LCS Duplicates (LCSD)
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Samples

2.0 DESCRIPTION OF DATA QUALIFIERS

The following flags were used to qualify data for the Phase III Remedial Investigation at Northeast Cape, Alaska:

VB – The analyte was detected in the associated blank and the sample indicating possible contamination.
VHB – Result is an estimate with a high bias.
VJ – The analyte was positively identified; the quantitation is an estimation.
VLB – Result is an estimate with a low bias.
VQQ – The practical quantation limit is approximate due to QC or matrix effects.

The hierarchy of data qualifiers, listed in order of the most severe through the least severe, are VB, VJ, VLB/VHB and VQQ. Only the most severe qualifier was applied to the data.

3.0 DATA REVIEW RESULTS

The following sections summarize the data review and qualification of sample results for the Northeast Cape Phase III Remedial Investigation.

3.1 SAMPLING HANDLING

All reviewed laboratory sample receipt forms, CoCs, and case narratives indicate that sample handling procedures were in control with the exception of cooler temperature blanks. All coolers temperature blanks were received within the acceptance range of 2-6 degrees Celsius (°C), with the exception of cooler temperature blanks less than 2.0°C. Since samples were received in good condition and not frozen, results were not qualified based on cooler temperatures below 2.0°C.

3.2 HOLDING TIMES

All samples were extracted or analyzed within the recommended holding time for the analytical procedures used for this project with the exception of samples listed in Table 2. When holding times were exceeded by more then two times recommended holding times, positive results were qualified as estimated values and non-detects were rejected. No results were rejected based on holding times.

3.3 TRIP BLANKS

Table 3 summarizes field samples with target analytes in associated trip blanks. Field samples associated with contaminated trip blanks were qualified for cases when the concentration in the sample was within 10 times the concentration of the trip blank. Samples free of the trip blank contaminant were not qualified.

3.4 METHOD BLANKS

Table 6 summarizes qualified primary samples with target analytes in the method blank. Field samples associated with contaminated method blanks were qualified for cases when the concentration in the sample was within 10 times the concentration of the method blank. Samples free of the method blank contaminant were not qualified.

3.5 SURROGATE RECOVERIES

Table 7 summarizes qualified samples with surrogate recoveries outside laboratory acceptance limits. Results were not qualified in cases when surrogates were outside acceptance limits due to dilution required for analysis. Similarly, results were not qualified if the surrogate recovery exceeded laboratory acceptance limits and there were no detections in the sample. When surrogate recoveries exceeded acceptance limits, positive results were qualified as estimates with a high bias. When surrogate recoveries were below acceptance limits, positive results were qualified as biased low and MRLs were qualified as estimates for analytes that were not detected.

3.6 LABORATORY CONTROL SAMPLES

Results were not qualified if the LCS recovery exceeded laboratory acceptance limits and there were no detections in the associated samples. When LCS recoveries exceeded acceptance limits, positive sample results were qualified as estimates with a high bias. When LCS recoveries were below acceptance limits, positive sample results were qualified as biased low and MRLs were qualified as estimates for analytes that were not detected.

Percent recovery for methylene chloride (68%) in the laboratory control sample (LCS), DN07 LCS 8/27/01 was below laboratory acceptance limits (70-130%). The associated samples 01NE07SD104, 01NE07SD105, 01NE07SD125, 01NE07SD126, 01NE07SD127 did not contain detectable amounts of methylene chloride. Therefore, the methylene chloride MRLs for the associated samples were qualified as estimates due to the slightly low recovery.

3.7 MATRIX SPIKE AND MATRIX SPIKE DUPLICATES

Sample results were not qualified for occasions when MS results were outside acceptance limits due to high concentrations of target and/or non-target analyte(s), dilutions, when all other QC parameters were well within limits and/or when the sample selected for spiking was not from the Northeast Cape Site. Sample results were not qualified for high relative percent difference (RPD) results if all other QC parameters were well within limits. For cases when RPD was above acceptance limits and one or both MS samples were outside acceptance limits, positive results were qualified as estimates for the spiked field sample.

For sample 01NE28PT5104 the MS/MSD percent recovery was above laboratory acceptance limits (35-145) for Aroclor 1260. Therefore, Aroclor 1260 was qualified as biased high due to the elevated percent recoveries.

3.8 FIELD DUPLICATES

For the 2001 Northeast Cape sampling event, 24 soil duplicates and 8 water duplicates were collected to evaluate precision. Table 4 summarizes the primary, field duplicate, and QA sample relationships.

Precision among primary and duplicates were evaluated using the agreement criteria listed in Table 5 for each analyte and matrix. For sample sets that did not meet the criteria, all available documentation, including related analyte results and QC results were reviewed to elucidate the cause of disagreement. The findings of this review are discussed below.

Field duplicates and primary soil and water sample results were in agreement, with the exception of results between the method reporting limit (MRL) and method detection limit (MDL). This was due to the inherent low precision between the MRL and MDL; therefore, results were not qualified for these samples.

The pant sample 01NE28PT5104 was not in agreement with its field duplicate 01NE28PT5204 due to non-homogeneity between individual plants. Results were not qualified based on the nature of individual plants including the plants maturity, root system, growth, and health.

This section summarizes qualifications, by method, where there are exceptions to the general qualification approaches and/or approaches to reporting.

4.0 COMPLETENESS

Completeness is an expression of how many valid results were received from the laboratory relative to the number expected. The parameter is calculated in the following manner:

$$\%C = (V/T) \times 100\%$$

Where:

%C = percent completeness;
V = number of measurements judged valid; and
T = number of valid measurements needed to achieve a specific statistical level of confidence.

The completeness goal of 95 percent was met for all analyses. All data, including qualified results, were considered valid and acceptable for the purposes of this project.

5.0 REFERENCES

MWH. 2001. Work Plan Phase III Remedial Investigation Northeast Cape, St. Lawrence Island, Alaska Final. August.

USEPA. 1998. Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses.

USEPA. 1999. Contract Laboratory Program National Functional Guidelines for Organic Data Review.

Table 2 Hold Time Exceedances

Sample ID	Matrix	Date Collected	Method	Analyte	Days till extracted	Extract holding time criteria	Days past Extraction Hold time	Days till analyzed	Analysis holding time criteria	Days Past Analysis Hold Time	Qualifier
01NE21SW114	Water	8/21/01	AK101	GRO	15	14	**1**	15	14	**1**	- -
01NE21SW114	Water	8/21/01	SW8082	PCB	8	7	**1**	10	40	0	- -
01NE28SD141	Soil	8/19/01	8270SIM	PAH	17	14	**3**	18	40	0	- -
01NE28SD145	Soil	8/19/01	8270SIM	dibenzofuran	17	14	**3**	18	40	0	- -
01NE28SD150	Soil	8/19/01	8270SIM	PAH	17	14	**3**	18	40	0	- -
01NE29SD122	Soil	8/21/01	AK102	DRO	20	14	**6**	29	40	0	- -
01NE29SD122	Soil	8/21/01	AK103	RRO	20	14	**6**	29	40	0	- -
01NE29SD123	Soil	8/21/01	AK102	DRO	31	14	**17**	34	40	0	VLB
01NE29SD123	Soil	8/21/01	AK103	RRO	31	14	**17**	34	40	0	VLB
01NE29SD124	Soil	8/21/01	AK102	DRO	20	14	**6**	28	40	0	- -
01NE29SD124	Soil	8/21/01	AK103	RRO	20	14	**6**	28	40	0	- -
01NE29SD125	Soil	8/21/01	AK102	DRO	20	14	**6**	28	40	0	- -
01NE29SD225	Soil	8/21/01	AK102	DRO	20	14	**6**	28	40	0	- -
01NE29SD125	Soil	8/21/01	AK103	RRO	20	14	**6**	28	40	0	- -
01NE29SD225	Soil	8/21/01	AK103	RRO	20	14	**6**	28	40	0	- -
01NE29SD125	Soil	8/21/01	SW8082	PCB	15	14	**1**	17	40	0	- -
01NE29SD126	Soil	8/21/01	AK102	DRO	20	14	**6**	29	40	0	- -
01NE29SD126	Soil	8/21/01	AK103	RRO	20	14	**6**	29	40	0	- -
01NE29SD128	Soil	8/21/01	AK102	DRO	20	14	**6**	28	40	0	- -
01NE29SD128	Soil	8/21/01	AK103	RRO	20	14	**6**	28	40	0	- -
01NE29SD129	Soil	8/21/01	AK102	DRO	20	14	**6**	28	40	0	- -
01NE29SD129	Soil	8/21/01	AK103	RRO	20	14	**6**	28	40	0	- -

Key:
- - - Hold time exceedance less then twice the recommended hold time, therefore results were not qualified.
AK - Alaska Method
Bold - exceeded hold time
DRO - diesel range organics
GRO - gasoline range organics
PAH - polynuclear aromatic hydrocarbon
PCB - polychlorinated biphenyls
RRO - residual range organics
SIM - selected ion monitoring
SW - standard waste method

Table 4 Summary of Primary, Field Duplicate, and QA Relationship and Parameters

Primary	Duplicate	QA	Parameters*
Soil Samples			
01NE06TP101	01NE06TP201	01NE06TP301	DRO/RRO
01NE09SD113	01NE09SD213	01NE09SD313	DRO/RRO, VOC, PAHs, PCBs, TAL metals
01NE14SS103	01NE14SS203	01NE14SS303	PCBs
01NE16SS165	01NE16SS265	01NE16SS365	Pb
01NE21SS169	01NE21SS269	01NE21SS369	DRO/RRO,GRO, BTEX, PCBs, TAL Metals
01NE24SD114	01NE24SD214	01NE24SD314	GRO, BTEX
01NE28SD111	01NE28SD211	01NE28SD311	DRO/RRO, PAHs, PCBs, Pb, Zn, Cr
01NE28SD125	01NE28SD225	01NE28SD325	DRO/RRO, PAHs, PCBs, Pb, Zn, Cr
01NE28SD139	01NE28SD239	01NE28SD339	DRO/RRO, PAHs, PCBs, Pb, Zn, Cr
01NE28SD151	01NE28SD251	01NE28SD351	DRO/RRO, PAHs, PCBs, Pb, Zn, Cr
01NE28SD153	01NE28SD253	01NE28SD353	DRO/RRO, PAHs, PCBs, Pb, Zn, Cr
01NE28SD157	01NE28SD257	01NE28SD357	DRO/RRO, PAHs, PCBs, Pb, Zn, Cr
01NE28SD163	01NE28SD263	01NE28SD363	DRO/RRO, PAHs, PCBs, Pb, Zn, Cr
01NE28SD171	01NE28SD271	01NE28SD371	DRO/RRO, PAHs, PCBs, Pb, Zn, Cr
01NE28SD175	01NE28SD275	01NE28SD375	DRO/RRO, PAHs, PCBs, Pb, Zn, Cr
01NE28SD185	01NE28SD285	NA	Pesticides
01NE28SD192	01NE28SD292	NA	Pesticides
01NE29SD114	01NE29SD214	01NE29SD314	DRO/RRO, PAHs, PCBs, Pb, Zn, Cr
01NE29SD125	01NE29SD225	01NE29SD125	DRO/RRO, PAHs, PCBs, Pb, Zn, Cr
01NE30SS101	01NE30SS201	01NE30SS301	Tal Metals
01NE31SS102	01NE31SS202	01NE31SS302	PCBs, Pesticides
01NE31SS105	01NE31SS205	01NE31SS305	DRO/RRO
01NE31SS120	01NE31SS220	01NE31SS320	DRO/RRO
01NE31SS121	01NE31SS221	01NE31SS321	DRO/RRO, GRO, BTEX, PCBs, Pesticides
Water Samples			
01NE07WP102	01NE07WP202	01NE07WP302	PAHs, VOC
01NE09SW107	01NE09SW207	01NE09SW307	DRO/RRO, GRO, VOCs, PAHs, PCBs, TAL Metals
01NE16GW101	01NE16GW201	01NE16GW301	SVOCs
01NE21SW113	01NE21SW213	01NE21SW313	DRO/RRO, GRO
01NE24SW114	01NE24SW214	01NE24SW314	DRO/RRO, PCBs, TAL metals
01NE28SW111	01NE28SW211	01NE28SW311	DRO/RRO, PCBs
01NE29SW117	01NE29SW217	01NE29SW317	DRO/RRO/GRO/BTEX, PAH, PCBs, TAL metals
01NE35GW101	01NE35GW201	01NE35GW301	DRO/RRO, GRO/BTEX
Plant Sample			
01NE28PT5104	01NE28PT5204	NA	PAH, Ag, As, Ba, Cd, Cr, Cu, Hg, Ni, Pb, Se, V, Zn, PCB

Key:

* - only incudes parameters for primary, field duplicate and QA sample sets
Ag - silver
As - arsenic
Ba - barium
BTEX - benzene, toluene, ethylbenzene, xylenes
Cd - cadmium
Cr - chromium
Cu - copper
DRO - diesel range organics
GRO - gasoline range organics
Hg - mercury
NA - not applicable
Ni - nickel
PAH - polynuclear aromatic hydrocarbon
Pb - lead
PCBs - polychlorinated biphenyls
RRO - residual range organics
Se - selenium
SIM - selected ion monitoring
TAL - Target Analyte List
Tl - thallium
TOC - total organic carbon
V - vanadium
Zn - zinc
QA - quality assurance

Table 6 Summary of Primary and Field Duplicate Samples with Target Analytes in Method Blanks

Method Blank ID	Impacted samples	Method	Analyte	Result	MRL	MDL	Units	Qualifier
DN07MB		SW8260	Bromomethane	110				
		SW8260	Bromomethane	240				
	01NE07SD104	SW8260	Bromomethane	170				VB
	01NE07SD105	SW8260	Bromomethane	400				VB
	01NE07SS125	SW8260	Bromomethane	98				VB
	01NE07SS126	SW8260	Bromomethane	200				VB
	01NE07SS127	SW8260	Bromomethane	170				VB
DN53MB		SW8270	bis-(2-ethylhexyl)phthalate*	0.0019	0.001	0.00025	mg/L	
	01NE16GW101	SW8270	bis-(2-ethylhexyl)phthalate*	0.0025	0.001	0.00025	mg/L	VB
	01NE16GW102	SW8270	bis-(2-ethylhexyl)phthalate*	0.0014	0.001	0.00025	mg/L	VB
	01NE16GW201	SW8270	bis-(2-ethylhexyl)phthalate*	0.0022	0.001	0.00025	mg/L	VB
DN73MB		AK102	Diesel Range Organics	0.34	0.25	0.02	mg/L	
DN53MB		AK102	Diesel Range Organics	0.34	0.25	0.02	mg/L	
	01NE04WP102	AK102	Diesel Range Organics	1.4	1.2	0.12	mg/L	VB
	01NE04WP103	AK102	Diesel Range Organics	2.0	1.2	0.12	mg/L	VB
	01NE04WP104	AK102	Diesel Range Organics	2.4	0.25	0.02	mg/L	VB
	01NE04WP104	AK102	Diesel Range Organics	0.96	0.25	0.02	mg/L	VB
	01NE06WP103	AK102	Diesel Range Organics	0.58	0.25	0.02	mg/L	VB
	01NE06WP103	AK102	Diesel Range Organics	0.29	0.25	0.02	mg/L	VB
	01NE30WP101	AK102	Diesel Range Organics	2.0	1.2	0.12	mg/L	VB
DN68MB		SW8260	Bromomethane	0.089	0.029	0.019	mg/Kg	
	01NE00TB111	SW8260	Bromomethane	0.09	0.05	0.032	mg/Kg	VB
	01NE09SD108	SW8260	Bromomethane	0.36	0.18	0.12	mg/Kg	VB
DN68MB		SW8260	Chloromethane	0.032	0.029	0.0079	mg/Kg	
DN73MB		AK102	Diesel Range Organics	0.34	0.25	0.02	mg/L	
DN53MB		AK102	Diesel Range Organics	0.34	0.25	0.02	mg/L	
	01NE04WP102	AK102	Diesel Range Organics	1.4	1.2	0.12	mg/L	VB
	01NE04WP103	AK102	Diesel Range Organics	2	1.2	0.12	mg/L	VB
	01NE04WP104	AK102	Diesel Range Organics	0.96	0.25	0.02	mg/L	VB
	01NE06WP103	AK102	Diesel Range Organics	0.29	0.25	0.02	mg/L	VB
	01NE30WP101	AK102	Diesel Range Organics	2	1.2	0.12	mg/L	VB

Key:

* please note that bis-(2-ethylhexyl)phthalate) was the only SVOC analyte detected.

SIM - selected ion monitoring

VB - analyte present in the blank and the sample.

mg/Kg - milligram per kilogram

mg/L - miligram per liter

Table 7 Summary of Primary and Field Duplicate Samples with Surrogates Outside Laboratory Acceptance Limits

Sample	Method	Surrogate	Analyte	Result	MRL	Units	Range	Qualifier	Dilution
01NE09MW103	AK102	o-Terphenyl		24	NA	PERCENT	50-150	NA	1
01NE09MW103	AK102		Diesel Range Organics	ND	0.25	MG/L		VQQ	1
01NE09MW103	AK103		Residual Range Organics	ND	0.50	MG/L		VQQ	1
01NE09SD108	8270SIM	2-Methylnaphthalene-d10		32	NA	PERCENT	30-160	NA	3
01NE09SD108	8270SIM	Dibenzo(a,h)anthracene-d14		25	NA	PERCENT	30-160	NA	3
01NE09SD108	8270SIM		2-Methylnaphthalene	ND	0.022	mg/Kg		VQQ	3
01NE09SD108	8270SIM		Acenaphthene	ND	0.022	mg/Kg		VQQ	3
01NE09SD108	8270SIM		Acenaphthylene	ND	0.022	mg/Kg		VQQ	3
01NE09SD108	8270SIM		Anthracene	ND	0.022	mg/Kg		VQQ	3
01NE09SD108	8270SIM		Benzo(a)anthracene	ND	0.022	mg/Kg		VQQ	3
01NE09SD108	8270SIM		Benzo(a)pyrene	ND	0.022	mg/Kg		VQQ	3
01NE09SD108	8270SIM		Benzo(b)fluoranthene	ND	0.022	mg/Kg		VQQ	3
01NE09SD108	8270SIM		Benzo(g,h,i)perylene	ND	0.022	mg/Kg		VQQ	3
01NE09SD108	8270SIM		Benzo(k)fluoranthene	ND	0.022	mg/Kg		VQQ	3
01NE09SD108	8270SIM		Chrysene	ND	0.022	mg/Kg		VQQ	3
01NE09SD108	8270SIM		Dibenzo(a,h)anthracene	ND	0.022	mg/Kg		VQQ	3
01NE09SD108	8270SIM		Dibenzofuran	ND	0.022	mg/Kg		VQQ	3
01NE09SD108	8270SIM		Fluoranthene	ND	0.022	mg/Kg		VQQ	3
01NE09SD108	8270SIM		Fluorene	ND	0.022	mg/Kg		VQQ	3
01NE09SD108	8270SIM		Indeno(1,2,3-cd)pyrene	ND	0.022	mg/Kg		VQQ	3
01NE09SD108	8270SIM		Naphthalene	ND	0.022	mg/Kg		VQQ	3
01NE09SD108	8270SIM		Phenanthrene	ND	0.022	mg/Kg		VQQ	3
01NE09SD108	8270SIM		Pyrene	ND	0.022	mg/Kg		VQQ	3
01NE09SD113	8270SIM	2-Methylnaphthalene-d10		34	NA	PERCENT	30-160	NA	3
01NE09SD113	8270SIM	Dibenzo(a,h)anthracene-d14		23	NA	PERCENT	30-160	NA	3
01NE09SD113	8270SIM		2-Methylnaphthalene	ND	0.036	mg/Kg		VQQ	3
01NE09SD113	8270SIM		Acenaphthene	ND	0.036	mg/Kg		VQQ	3
01NE09SD113	8270SIM		Acenaphthylene	ND	0.036	mg/Kg		VQQ	3
01NE09SD113	8270SIM		Anthracene	ND	0.036	mg/Kg		VQQ	3
01NE09SD113	8270SIM		Benzo(a)anthracene	ND	0.036	mg/Kg		VQQ	3
01NE09SD113	8270SIM		Benzo(a)pyrene	ND	0.036	mg/Kg		VQQ	3
01NE09SD113	8270SIM		Benzo(b)fluoranthene	ND	0.036	mg/Kg		VQQ	3
01NE09SD113	8270SIM		Benzo(g,h,i)perylene	ND	0.036	mg/Kg		VQQ	3

Table 7 Summary of Primary and Field Duplicate Samples with Surrogates Outside Laboratory Acceptance Limits

Sample	Method	Surrogate	Analyte	Result	MRL	Units	Range	Qualifier	Dilution
01NE09SD113	8270SIM		Benzo(k)fluoranthene	ND	0.036	mg/Kg		VQQ	3
01NE09SD113	8270SIM		Chrysene	ND	0.036	mg/Kg		VQQ	3
01NE09SD113	8270SIM		Dibenzo(a,h)anthracene	ND	0.036	mg/Kg		VQQ	3
01NE09SD113	8270SIM		Dibenzofuran	ND	0.036	mg/Kg		VQQ	3
01NE09SD113	8270SIM		Fluoranthene	ND	0.036	mg/Kg		VQQ	3
01NE09SD113	8270SIM		Fluorene	ND	0.036	mg/Kg		VQQ	3
01NE09SD113	8270SIM		Indeno(1,2,3-cd)pyrene	ND	0.036	mg/Kg		VQQ	3
01NE09SD113	8270SIM		Naphthalene	ND	0.036	mg/Kg		VQQ	3
01NE09SD113	8270SIM		Phenanthrene	ND	0.036	mg/Kg		VQQ	3
01NE09SD113	8270SIM		Pyrene	ND	0.036	mg/Kg		VQQ	3
01NE09SD114	AK102	o-Terphenyl		42	NA	PERCENT	50-150	NA	1
01NE09SD114	AK102		Diesel Range Organics	93	15	MG/KG		VLB	1
01NE09SD114	AK103		Residual Range Organics	740	29	MG/KG		VLB	1
01NE28PT2102	8270SIM	terphenyl-d14		58	NA	PERCENT	60-119	NA	1
01NE28PT2102	8270SIM	Fluoranthene-d10		57	NA	PERCENT	55-130	NA	1
01NE28PT2102	8270SIM	Fluorene-d10		47	NA	PERCENT	42-130	NA	1
01NE28PT2102	8270SIM		2-Methylnaphthalene	0.0051	0.011	mg/Kg		VLB	1
01NE28PT2102	8270SIM		Acenaphthene	0.0038	0.011	mg/Kg		VLB	1
01NE28PT2102	8270SIM		Anthracene	0.0052	0.011	mg/Kg		VLB	1
01NE28PT2102	8270SIM		Benzo(a)anthracene	0.0045	0.011	mg/Kg		VLB	1
01NE28PT2102	8270SIM		Benzo(a)pyrene	ND	0.011	mg/Kg		VQQ	1
01NE28PT2102	8270SIM		Benzo(b)fluoranthene	0.0037	0.011	mg/Kg		VLB	1
01NE28PT2102	8270SIM		Benzo(g,h,i)perylene	ND	0.011	mg/Kg		VQQ	1
01NE28PT2102	8270SIM		Benzo(k)fluoranthene	ND	0.011	mg/Kg		VQQ	1
01NE28PT2102	8270SIM		Chrysene	0.005	0.011	mg/Kg		VLB	1
01NE28PT2102	8270SIM		Dibenzo(a,h)anthracene	ND	0.011	mg/Kg		VQQ	1
01NE28PT2102	8270SIM		Fluoranthene	0.033	0.011	mg/Kg		VLB	1
01NE28PT2102	8270SIM		Fluorene	0.0063	0.011	mg/Kg		VLB	1
01NE28PT2102	8270SIM		Indeno(1,2,3-cd)pyrene	0.0027	0.011	mg/Kg		VLB	1
01NE28PT2102	8270SIM		Naphthalene	0.0051	0.011	mg/Kg		VLB	1
01NE28PT2102	8270SIM		Phenanthrene	0.046	0.011	mg/Kg		VLB	1
01NE28PT2102	8270SIM		Pyrene	0.019	0.011	mg/Kg		VLB	1
01NE28PT3101	8270SIM	fluorene-d10		36	NA	PERCENT	42-130	NA	1

Table 7 Summary of Primary and Field Duplicate Samples with Surrogates Outside Laboratory Acceptance Limits

Sample	Method	Surrogate	Analyte	Result	MRL	Units	Range	Qualifier	Dilution
01NE28PT3101	8270SIM	fluoranthene-d10		40	NA	PERCENT	55-130	NA	1
01NE28PT3101	8270SIM	terphenyl-d14		46	NA	PERCENT	60-119	NA	1
01NE28PT3101	8270SIM		2-Methylnaphthalene	0.0046	0.005	mg/Kg		VLB	1
01NE28PT3101	8270SIM		Acenaphthene	0.0017	0.005	mg/Kg		VLB	1
01NE28PT3101	8270SIM		Anthracene	0.0019	0.005	mg/Kg		VLB	1
01NE28PT3101	8270SIM		Benzo(a)anthracene	ND	0.005	mg/Kg		VQQ	1
01NE28PT3101	8270SIM		Benzo(a)pyrene	ND	0.005	mg/Kg		VQQ	1
01NE28PT3101	8270SIM		Benzo(b)fluoranthene	0.003	0.005	mg/Kg		VLB	1
01NE28PT3101	8270SIM		Benzo(g,h,i)perylene	ND	0.005	mg/Kg		VQQ	1
01NE28PT3101	8270SIM		Benzo(k)fluoranthene	0.0031	0.005	mg/Kg		VLB	1
01NE28PT3101	8270SIM		Chrysene	0.0074	0.005	mg/Kg		VLB	1
01NE28PT3101	8270SIM		Dibenzo(a,h)anthracene	ND	0.005	mg/Kg		VQQ	1
01NE28PT3101	8270SIM		Fluoranthene	0.049	0.005	mg/Kg		VLB	1
01NE28PT3101	8270SIM		Fluorene	0.005	0.005	mg/Kg		VLB	1
01NE28PT3101	8270SIM		Indeno(1,2,3-cd)pyrene	0.0013	0.005	mg/Kg		VLB	1
01NE28PT3101	8270SIM		Naphthalene	0.0044	0.005	mg/Kg		VLB	1
01NE28PT3101	8270SIM		Phenanthrene	0.062	0.005	mg/Kg		VLB	1
01NE28PT3101	8270SIM		Pyrene	0.026	0.005	mg/Kg		VLB	1
01NE28SD113	SW8082	2,4,5,6-Tetrachloro-meta-xylene		24.8	NA	PERCENT	65-135	NA	1
01NE28SD113	SW8082	Decachlorobiphenyl		46.2	NA	PERCENT	65-135	NA	1
01NE28SD113	SW8082		PCB-1016 (Aroclor 1016)	ND	0.26	mg/Kg		VQQ	1
01NE28SD113	SW8082		PCB-1221 (Aroclor 1221)	ND	0.51	mg/Kg		VQQ	1
01NE28SD113	SW8082		PCB-1232 (Aroclor 1232)	ND	0.26	mg/Kg		VQQ	1
01NE28SD113	SW8082		PCB-1242 (Aroclor 1242)	ND	0.26	mg/Kg		VQQ	1
01NE28SD113	SW8082		PCB-1248 (Aroclor 1248)	ND	0.26	mg/Kg		VQQ	1
01NE28SD113	SW8082		PCB-1254 (Aroclor 1254)	ND	0.26	mg/Kg		VQQ	1
01NE28SD113	SW8082		PCB-1260 (Aroclor 1260)	ND	0.26	mg/Kg		VQQ	1
01NE28SD175	8270SIM	2-Methylnaphthalene-d10		19.0	NA	PERCENT	30-160	NA	3
01NE28SD175	8270SIM	Dibenzo(a,h)anthracene-d14		29.0	NA	PERCENT	30-160	NA	3
01NE28SD175	8270SIM		2-Methylnaphthalene	ND	0.033	mg/Kg		VQQ	3
01NE28SD175	8270SIM		Acenaphthene	ND	0.033	mg/Kg		VQQ	3
01NE28SD175	8270SIM		Acenaphthylene	ND	0.033	mg/Kg		VQQ	3
01NE28SD175	8270SIM		Anthracene	ND	0.033	mg/Kg		VQQ	3

Table 7 Summary of Primary and Field Duplicate Samples with Surrogates Outside Laboratory Acceptance Limits

Sample	Method	Surrogate	Analyte	Result	MRL	Units	Range	Qualifier	Dilution
01NE28SD175	8270SIM		Benzo(a)anthracene	ND	0.033	mg/Kg		VQQ	3
01NE28SD175	8270SIM		Benzo(a)pyrene	ND	0.033	mg/Kg		VQQ	3
01NE28SD175	8270SIM		Benzo(b)fluoranthene	ND	0.033	mg/Kg		VQQ	3
01NE28SD175	8270SIM		Benzo(g,h,i)perylene	ND	0.033	mg/Kg		VQQ	3
01NE28SD175	8270SIM		Benzo(k)fluoranthene	ND	0.033	mg/Kg		VQQ	3
01NE28SD175	8270SIM		Chrysene	ND	0.033	mg/Kg		VQQ	3
01NE28SD175	8270SIM		Dibenzo(a,h)anthracene	ND	0.033	mg/Kg		VQQ	3
01NE28SD175	8270SIM		Dibenzofuran	ND	0.033	mg/Kg		VQQ	3
01NE28SD175	8270SIM		Fluoranthene	ND	0.033	mg/Kg		VQQ	3
01NE28SD175	8270SIM		Fluorene	ND	0.033	mg/Kg		VQQ	3
01NE28SD175	8270SIM		Indeno(1,2,3-cd)pyrene	ND	0.033	mg/Kg		VQQ	3
01NE28SD175	8270SIM		Naphthalene	ND	0.033	mg/Kg		VQQ	3
01NE28SD175	8270SIM		Phenanthrene	ND	0.033	mg/Kg		VQQ	3
01NE28SD175	8270SIM		Pyrene	ND	0.033	mg/Kg		VQQ	3
01NE29SD126	8270SIM	2-Methylnaphthalene-d10		11.0	NA	PERCENT	30-160	NA	3
01NE29SD126	8270SIM	Dibenzo(a,h)anthracene-d14		20.0	NA	PERCENT	30-160	NA	3
01NE29SD126	8270SIM		2-Methylnaphthalene	ND	0.0083	mg/Kg		VQQ	3
01NE29SD126	8270SIM		Acenaphthene	ND	0.0083	mg/Kg		VQQ	3
01NE29SD126	8270SIM		Acenaphthylene	ND	0.0083	mg/Kg		VQQ	3
01NE29SD126	8270SIM		Anthracene	ND	0.0083	mg/Kg		VQQ	3
01NE29SD126	8270SIM		Benzo(a)anthracene	ND	0.0083	mg/Kg		VQQ	3
01NE29SD126	8270SIM		Benzo(a)pyrene	ND	0.0083	mg/Kg		VQQ	3
01NE29SD126	8270SIM		Benzo(b)fluoranthene	ND	0.0083	mg/Kg		VQQ	3
01NE29SD126	8270SIM		Benzo(g,h,i)perylene	ND	0.0083	mg/Kg		VQQ	3
01NE29SD126	8270SIM		Benzo(k)fluoranthene	ND	0.0083	mg/Kg		VQQ	3
01NE29SD126	8270SIM		Chrysene	ND	0.0083	mg/Kg		VQQ	3
01NE29SD126	8270SIM		Dibenzo(a,h)anthracene	ND	0.0083	mg/Kg		VQQ	3
01NE29SD126	8270SIM		Dibenzofuran	ND	0.0083	mg/Kg		VQQ	3
01NE29SD126	8270SIM		Fluoranthene	ND	0.0083	mg/Kg		VQQ	3
01NE29SD126	8270SIM		Fluorene	ND	0.0083	mg/Kg		VQQ	3
01NE29SD126	8270SIM		Indeno(1,2,3-cd)pyrene	ND	0.0083	mg/Kg		VQQ	3
01NE29SD126	8270SIM		Naphthalene	ND	0.0083	mg/Kg		VQQ	3
01NE29SD126	8270SIM		Phenanthrene	ND	0.0083	mg/Kg		VQQ	3

Table 7 Summary of Primary and Field Duplicate Samples with Surrogates Outside Laboratory Acceptance Limits

Sample	Method	Surrogate	Analyte	Result	MRL	Units	Range	Qualifier	Dilution
01NE29SD126	8270SIM		Pyrene	ND	0.0083	mg/Kg		VQQ	3
01NE29SD128	8270SIM	2-Methylnaphthalene-d10		9.0	NA	PERCENT	30-160	NA	3
01NE29SD128	8270SIM	Dibenzo(a,h)anthracene-d14		21.0	NA	PERCENT	30-160	NA	3
01NE29SD128	8270SIM		2-Methylnaphthalene	ND	0.0087	mg/Kg		VQQ	3
01NE29SD128	8270SIM		Acenaphthene	ND	0.0087	mg/Kg		VQQ	3
01NE29SD128	8270SIM		Acenaphthylene	ND	0.0087	mg/Kg		VQQ	3
01NE29SD128	8270SIM		Anthracene	ND	0.0087	mg/Kg		VQQ	3
01NE29SD128	8270SIM		Benzo(a)anthracene	ND	0.0087	mg/Kg		VQQ	3
01NE29SD128	8270SIM		Benzo(a)pyrene	ND	0.0087	mg/Kg		VQQ	3
01NE29SD128	8270SIM		Benzo(b)fluoranthene	ND	0.0087	mg/Kg		VQQ	3
01NE29SD128	8270SIM		Benzo(g,h,i)perylene	ND	0.0087	mg/Kg		VQQ	3
01NE29SD128	8270SIM		Benzo(k)fluoranthene	ND	0.0087	mg/Kg		VQQ	3
01NE29SD128	8270SIM		Chrysene	ND	0.0087	mg/Kg		VQQ	3
01NE29SD128	8270SIM		Dibenzo(a,h)anthracene	ND	0.0087	mg/Kg		VQQ	3
01NE29SD128	8270SIM		Dibenzofuran	ND	0.0087	mg/Kg		VQQ	3
01NE29SD128	8270SIM		Fluoranthene	ND	0.0087	mg/Kg		VQQ	3
01NE29SD128	8270SIM		Fluorene	ND	0.0087	mg/Kg		VQQ	3
01NE29SD128	8270SIM		Indeno(1,2,3-cd)pyrene	ND	0.0087	mg/Kg		VQQ	3
01NE29SD128	8270SIM		Naphthalene	ND	0.0087	mg/Kg		VQQ	3
01NE29SD128	8270SIM		Phenanthrene	ND	0.0087	mg/Kg		VQQ	3
01NE29SD128	8270SIM		Pyrene	ND	0.0087	mg/Kg		VQQ	3
01NE30SS103	8270SIM	2-Methylnaphthalene-d10		43	NA	PERCENT	30-160	NA	3
01NE30SS103	8270SIM	Dibenzo(a,h)anthracene-d14		29	NA	PERCENT	30-160	NA	3
01NE30SS103	8270SIM		2-Methylnaphthalene	ND	0.053	mg/Kg		VQQ	3
01NE30SS103	8270SIM		Acenaphthene	ND	0.053	mg/Kg		VQQ	3
01NE30SS103	8270SIM		Acenaphthylene	ND	0.053	mg/Kg		VQQ	3
01NE30SS103	8270SIM		Anthracene	ND	0.053	mg/Kg		VQQ	3
01NE30SS103	8270SIM		Benzo(a)anthracene	ND	0.053	mg/Kg		VQQ	3
01NE30SS103	8270SIM		Benzo(a)pyrene	ND	0.053	mg/Kg		VQQ	3
01NE30SS103	8270SIM		Benzo(b)fluoranthene	ND	0.053	mg/Kg		VQQ	3
01NE30SS103	8270SIM		Benzo(g,h,i)perylene	ND	0.053	mg/Kg		VQQ	3
01NE30SS103	8270SIM		Benzo(k)fluoranthene	ND	0.053	mg/Kg		VQQ	3
01NE30SS103	8270SIM		Chrysene	ND	0.053	mg/Kg		VQQ	3

Table 7 Summary of Primary and Field Duplicate Samples with Surrogates Outside Laboratory Acceptance Limits

Sample	Method	Surrogate	Analyte	Result	MRL	Units	Range	Qualifier	Dilution
01NE30SS103	8270SIM		Dibenzo(a,h)anthracene	ND	0.053	mg/Kg		VQQ	3
01NE30SS103	8270SIM		Dibenzofuran	ND	0.053	mg/Kg		VQQ	3
01NE30SS103	8270SIM		Fluoranthene	ND	0.053	mg/Kg		VQQ	3
01NE30SS103	8270SIM		Fluorene	ND	0.053	mg/Kg		VQQ	3
01NE30SS103	8270SIM		Indeno(1,2,3-cd)pyrene	ND	0.053	mg/Kg		VQQ	3
01NE30SS103	8270SIM		Naphthalene	ND	0.053	mg/Kg		VQQ	3
01NE30SS103	8270SIM		Phenanthrene	ND	0.053	mg/Kg		VQQ	3
01NE30SS103	8270SIM		Pyrene	ND	0.053	mg/Kg		VQQ	3
01NE32SS103	SW8081	2,4,5,6-Tetrachloro-meta-xylene		55.8	NA	PERCENT	41-128	NA	1
01NE32SS103	SW8081	Decachlorobiphenyl		37.5	NA	PERCENT	41-128	NA	1
01NE32SS103	SW8081		4,4'-DDD	ND	0.0043	mg/Kg		VQQ	1
01NE32SS103	SW8081		4,4'-DDE	ND	0.0043	mg/Kg		VQQ	1
01NE32SS103	SW8081		4,4'-DDT	ND	0.0043	mg/Kg		VQQ	1
01NE32SS103	SW8081		Aldrin	ND	0.0022	mg/Kg		VQQ	1
01NE32SS103	SW8081		alpha-BHC	ND	0.0022	mg/Kg		VQQ	1
01NE32SS103	SW8081		alpha-Chlordane	ND	0.0022	mg/Kg		VQQ	1
01NE32SS103	SW8081		beta-BHC	ND	0.0022	mg/Kg		VQQ	1
01NE32SS103	SW8081		delta-BHC	ND	0.0022	mg/Kg		VQQ	1
01NE32SS103	SW8081		Dieldrin	ND	0.0043	mg/Kg		VQQ	1
01NE32SS103	SW8081		Endosulfan I	ND	0.0022	mg/Kg		VQQ	1
01NE32SS103	SW8081		Endosulfan II	ND	0.0043	mg/Kg		VQQ	1
01NE32SS103	SW8081		Endosulfan sulfate	ND	0.0043	mg/Kg		VQQ	1
01NE32SS103	SW8081		Endrin	ND	0.0043	mg/Kg		VQQ	1
01NE32SS103	SW8081		Endrin aldehyde	ND	0.0043	mg/Kg		VQQ	1
01NE32SS103	SW8081		Endrin ketone	ND	0.0043	mg/Kg		VQQ	1
01NE32SS103	SW8081		gamma-BHC (Lindane)	ND	0.0022	mg/Kg		VQQ	1
01NE32SS103	SW8081		gamma-Chlordane	ND	0.0022	mg/Kg		VQQ	1
01NE32SS103	SW8081		Heptachlor	ND	0.0022	mg/Kg		VQQ	1
01NE32SS103	SW8081		Heptachlor epoxide	ND	0.0022	mg/Kg		VQQ	1
01NE32SS103	SW8081		Methoxychlor	ND	0.022	mg/Kg		VQQ	1
01NE32SS103	SW8081		PCB-1016 (Aroclor 1016)	ND	0.043	mg/Kg		VQQ	1
01NE32SS103	SW8081		PCB-1221 (Aroclor 1221)	ND	0.087	mg/Kg		VQQ	1
01NE32SS103	SW8081		PCB-1232 (Aroclor 1232)	ND	0.043	mg/Kg		VQQ	1

Table 7 Summary of Primary and Field Duplicate Samples with Surrogates Outside Laboratory Acceptance Limits

Sample	Method	Surrogate	Analyte	Result	MRL	Units	Range	Qualifier	Dilution
01NE32SS103	SW8081		PCB-1242 (Aroclor 1242)	ND	0.043	mg/Kg		VQQ	1
01NE32SS103	SW8081		PCB-1248 (Aroclor 1248)	ND	0.043	mg/Kg		VQQ	1
01NE32SS103	SW8081		PCB-1254 (Aroclor 1254)	ND	0.043	mg/Kg		VQQ	1
01NE32SS103	SW8081		PCB-1260 (Aroclor 1260)	ND	0.043	mg/Kg		VQQ	1
01NE32SS103	SW8081		Toxaphene	ND	0.22	mg/Kg		VQQ	1
01NE32SS105	SW8081	2,4,5,6-Tetrachloro-meta-xylene		48.2	NA	PERCENT	41-128	NA	1
01NE32SS105	SW8081	Decachlorobiphenyl		38.2	NA	PERCENT	41-128	NA	1
01NE32SS105	SW8081		4,4'-DDD	ND	0.0036	mg/Kg		VQQ	1
01NE32SS105	SW8081		4,4'-DDE	ND	0.0036	mg/Kg		VQQ	1
01NE32SS105	SW8081		4,4'-DDT	ND	0.037	mg/Kg		VQQ	1
01NE32SS105	SW8081		Aldrin	ND	0.0018	mg/Kg		VQQ	1
01NE32SS105	SW8081		alpha-BHC	ND	0.0018	mg/Kg		VQQ	1
01NE32SS105	SW8081		alpha-Chlordane	ND	0.0018	mg/Kg		VQQ	1
01NE32SS105	SW8081		beta-BHC	ND	0.0018	mg/Kg		VQQ	1
01NE32SS105	SW8081		delta-BHC	ND	0.0018	mg/Kg		VQQ	1
01NE32SS105	SW8081		Dieldrin	ND	0.011	mg/Kg		VQQ	1
01NE32SS105	SW8081		Endosulfan I	ND	0.0018	mg/Kg		VQQ	1
01NE32SS105	SW8081		Endosulfan II	ND	0.0036	mg/Kg		VQQ	1
01NE32SS105	SW8081		Endosulfan sulfate	ND	0.0073	mg/Kg		VQQ	1
01NE32SS105	SW8081		Endrin	ND	0.0036	mg/Kg		VQQ	1
01NE32SS105	SW8081		Endrin aldehyde	ND	0.0078	mg/Kg		VQQ	1
01NE32SS105	SW8081		Endrin ketone	ND	0.0036	mg/Kg		VQQ	1
01NE32SS105	SW8081		gamma-BHC (Lindane)	ND	0.0018	mg/Kg		VQQ	1
01NE32SS105	SW8081		gamma-Chlordane	ND	0.0028	mg/Kg		VQQ	1
01NE32SS105	SW8081		Heptachlor	ND	0.0018	mg/Kg		VQQ	1
01NE32SS105	SW8081		Heptachlor epoxide	ND	0.0018	mg/Kg		VQQ	1
01NE32SS105	SW8081		Methoxychlor	ND	0.0031	mg/Kg		VQQ	1
01NE32SS105	SW8081		PCB-1016 (Aroclor 1016)	ND	0.036	mg/Kg		VQQ	1
01NE32SS105	SW8081		PCB-1221 (Aroclor 1221)	ND	0.072	mg/Kg		VQQ	1
01NE32SS105	SW8081		PCB-1232 (Aroclor 1232)	ND	0.036	mg/Kg		VQQ	1
01NE32SS105	SW8081		PCB-1242 (Aroclor 1242)	ND	0.036	mg/Kg		VQQ	1
01NE32SS105	SW8081		PCB-1248 (Aroclor 1248)	ND	0.036	mg/Kg		VQQ	1
01NE32SS105	SW8081		PCB-1254 (Aroclor 1254)	ND	0.036	mg/Kg		VQQ	1

Table 7 Summary of Primary and Field Duplicate Samples with Surrogates Outside Laboratory Acceptance Limits

Sample	Method	Surrogate	Analyte	Result	MRL	Units	Range	Qualifier	Dilution
01NE32SS105	SW8081		PCB-1260 (Aroclor 1260)	0.89	0.036	mg/Kg		VLB	1
01NE32SS105	SW8081		Toxaphene	ND	0.18	mg/Kg		VQQ	1
01NE34SS101	8270SIM	2-Methylnaphthalene-d10		26.0	NA	PERCENT	30-160	NA	1
01NE34SS101	8270SIM	Dibenzo(a,h)anthracene-d14		16.0	NA	PERCENT	30-160	NA	1
01NE34SS101	8270SIM		2-Methylnaphthalene	ND	0.0026	mg/Kg		VQQ	1
01NE34SS101	8270SIM		Acenaphthene	ND	0.0026	mg/Kg		VQQ	1
01NE34SS101	8270SIM		Acenaphthylene	ND	0.0026	mg/Kg		VQQ	1
01NE34SS101	8270SIM		Anthracene	ND	0.0026	mg/Kg		VQQ	1
01NE34SS101	8270SIM		Benzo(a)anthracene	ND	0.0026	mg/Kg		VQQ	1
01NE34SS101	8270SIM		Benzo(a)pyrene	ND	0.0026	mg/Kg		VQQ	1
01NE34SS101	8270SIM		Benzo(b)fluoranthene	ND	0.0026	mg/Kg		VQQ	1
01NE34SS101	8270SIM		Benzo(g,h,i)perylene	ND	0.0026	mg/Kg		VQQ	1
01NE34SS101	8270SIM		Benzo(k)fluoranthene	ND	0.0026	mg/Kg		VQQ	1
01NE34SS101	8270SIM		Chrysene	ND	0.0026	mg/Kg		VQQ	1
01NE34SS101	8270SIM		Dibenzo(a,h)anthracene	ND	0.0026	mg/Kg		VQQ	1
01NE34SS101	8270SIM		Dibenzofuran	ND	0.0026	mg/Kg		VQQ	1
01NE34SS101	8270SIM		Fluoranthene	ND	0.0026	mg/Kg		VQQ	1
01NE34SS101	8270SIM		Fluorene	ND	0.0026	mg/Kg		VQQ	1
01NE34SS101	8270SIM		Indeno(1,2,3-cd)pyrene	ND	0.0026	mg/Kg		VQQ	1
01NE34SS101	8270SIM		Naphthalene	ND	0.0026	mg/Kg		VQQ	1
01NE34SS101	8270SIM		Phenanthrene	ND	0.0026	mg/Kg		VQQ	1
01NE34SS101	8270SIM		Pyrene	ND	0.0026	mg/Kg		VQQ	1

Key:
SIM - selected ion monitoring
VB - analyte present in the blank and the sample.
VLB - Result negatively biased
VHB - Result positvely biased
VQQ - PQL approximate due to QC or matrix effects.
mg/Kg - milligram per kilogram
mg/L - miligram per liter
ND - not detected

Table 3 Summary of Primary and Field Duplicate Samples with Target Analytes in Trip Blanks

Trip blank	Impacted sample	Method	Analyte	Results	MRL	MDL	Units	Dilution	Qualifier
01NE00TB101		8260SIM	Ethylbenzene	0.0084	0.005	0.0024	mg/Kg	1.0	
	01NE06SD116	8260SIM	Ethylbenzene	0.012	0.011	0.0055	mg/Kg	1.0	VB
	01NE06SD117	8260SIM	Ethylbenzene	0.00088	0.00067	0.00033	mg/Kg	1.0	VB
01NE00TB101		8260SIM	m,p-Xylene (Sum of Isomers)	0.031	0.01	0.01	mg/Kg	1.0	
	01NE06SD116	8260SIM	m,p-Xylene (Sum of Isomers)	0.044	0.022	0.022	mg/Kg	1.0	VB
	01NE06SD117	8260SIM	m,p-Xylene (Sum of Isomers)	0.0033	0.0013	0.0013	mg/Kg	1.0	VB
01NE00TB101		8260SIM	o-Xylene	0.01	0.005	0.0042	mg/Kg	1.0	
	01NE06SD116	8260SIM	o-Xylene	0.014	0.011	0.0094	mg/Kg	1.0	VB
	01NE06SD117	8260SIM	o-Xylene	0.001	0.00067	0.00056	mg/Kg	1.0	VB
01NE00TB101		8260SIM	Toluene	0.046	0.005	0.0048	mg/Kg	1.0	
	01NE06SD116	8260SIM	Toluene	0.078	0.011	0.011	mg/Kg	1.0	VB
	01NE06SD117	8260SIM	Toluene	0.0047	0.00067	0.00063	mg/Kg	1.0	VB
01NE00TB104		8260SIM	Ethylbenzene	0.008	0.005	0.0024	mg/Kg	1.0	
		8260SIM	m,p-Xylene (Sum of Isomers)	0.03	0.01	0.01	mg/Kg	1.0	
		8260SIM	o-Xylene	0.0098	0.005	0.0042	mg/Kg	1.0	
		8260SIM	Toluene	0.045	0.005	0.0048	mg/Kg	1.0	
	01NE29SD126	8260SIM	Toluene	0.0074	0.0044	0.0042	mg/Kg	1.0	VB
	01NE29SD127	8260SIM	Toluene	0.0097	0.0029	0.0027	mg/Kg	1.0	VB
	01NE29SD128	8260SIM	Toluene	0.0064	0.0033	0.0031	mg/Kg	1.0	VB
	01NE29SD129	8260SIM	m,p-Xylene (Sum of Isomers)	0.0032	0.0025	0.0025	mg/Kg	1.0	VB
	01NE29SD129	8260SIM	Toluene	0.0047	0.0012	0.0012	mg/Kg	1.0	VB
01NE00TB114		8260SIM	Ethylbenzene	0.0071	0.005	0.0024	mg/Kg	1.0	
		8260SIM	m,p-Xylene (Sum of Isomers)	0.028	0.01	0.01	mg/Kg	1.0	
		8260SIM	o-Xylene	0.0083	0.005	0.0042	mg/Kg	1.0	
		8260SIM	Toluene	0.044	0.005	0.0048	mg/Kg	1.0	
	01NE31SS123	8260SIM	m,p-Xylene (Sum of Isomers)	0.017	0.01	0.01	mg/Kg	1.0	VB
	01NE31SS221	8260SIM	m,p-Xylene (Sum of Isomers)	0.009	0.0069	0.0069	mg/Kg	1.0	VB
	01NE31SS123	8260SIM	o-Xylene	0.0053	0.0052	0.0044	mg/Kg	1.0	VB
	01NE31SS121	8260SIM	Toluene	0.0118	0.0041	0.0039	mg/Kg	1.0	VB
	01NE31SS123	8260SIM	Toluene	0.024	0.0052	0.005	mg/Kg	1.0	VB
	01NE31SS124	8260SIM	Toluene	0.0073	0.003	0.0028	mg/Kg	1.0	VB
	01NE31SS221	8260SIM	Toluene	0.014	0.0035	0.0033	mg/Kg	1.0	VB
01NE00TB109		8260SIM	Ethylbenzene	0.087	0.049	0.024	mg/Kg	1.0	
	01NE21SB169	8260SIM	Ethylbenzene	0.0067	0.0041	0.002	mg/Kg	1.0	VB

Table 3 Summary of Primary and Field Duplicate Samples with Target Analytes in Trip Blanks

Trip blank	Impacted sample	Method	Analyte	Results	MRL	MDL	Units	Dilution	Qualifier
	01NE24SD115	8260SIM	Ethylbenzene	0.0088	0.0072	0.0035	mg/Kg	1.0	VB
01NE00TB109		8260SIM	m,p-Xylene (Sum of Isomers)	0.33	0.097	0.097	mg/Kg	1.0	
01NE00TB109		8260SIM	o-Xylene	0.1	0.049	0.041	mg/Kg	1.0	
01NE00TB109		8260SIM	Toluene	0.44	0.049	0.046	mg/Kg	1.0	
	01NE21SD113	8260SIM	Toluene	0.055	0.015	0.014	mg/Kg	1.0	VB
	01NE21SD114	8260SIM	m,p-Xylene (Sum of Isomers)	0.01	0.0083	0.0083	mg/Kg	1.0	VB
	01NE21SD114	8260SIM	Toluene	0.019	0.0042	0.004	mg/Kg	1.0	VB
	01NE21SB169	8260SIM	m,p-Xylene (Sum of Isomers)	0.021	0.0082	0.0082	mg/Kg	1.0	VB
	01NE21SB169	8260SIM	o-Xylene	0.0063	0.0041	0.0035	mg/Kg	1.0	VB
	01NE21SB169	8260SIM	Toluene	0.024	0.0041	0.0039	mg/Kg	1.0	VB
	01NE21SS170	8260SIM	m,p-Xylene (Sum of Isomers)	0.0074	0.0074	0.0074	mg/Kg	1.0	VB
	01NE21SS170	8260SIM	Toluene	0.011	0.0037	0.0035	mg/Kg	1.0	VB
	01NE21SB170	8260SIM	Toluene	0.0072	0.0029	0.0028	mg/Kg	1.0	VB
	01NE21SB171	8260SIM	m,p-Xylene (Sum of Isomers)	0.023	0.021	0.021	mg/Kg	1.0	VB
	01NE21SB171	8260SIM	Toluene	0.041	0.01	0.0098	mg/Kg	1.0	VB
	01NE21SS172	8260SIM	m,p-Xylene (Sum of Isomers)	0.096	0.069	0.069	mg/Kg	1.0	VB
	01NE21SS172	8260SIM	Toluene	0.14	0.034	0.033	mg/Kg	1.0	VB
	01NE21SS173	8260SIM	m,p-Xylene (Sum of Isomers)	0.032	0.027	0.027	mg/Kg	1.0	VB
	01NE21SS173	8260SIM	Toluene	0.073	0.014	0.013	mg/Kg	1.0	VB
	01NE24SD114	8260SIM	Toluene	0.0032	0.003	0.0029	mg/Kg	1.0	VB
	01NE24SD115	8260SIM	m,p-Xylene (Sum of Isomers)	0.03	0.014	0.014	mg/Kg	1.0	VB
	01NE24SD115	8260SIM	o-Xylene	0.0092	0.0072	0.0061	mg/Kg	1.0	VB
	01NE24SD115	8260SIM	Toluene	0.038	0.0072	0.0068	mg/Kg	1.0	VB
	01NE24SD214	8260SIM	Toluene	0.017	0.0091	0.0087	mg/Kg	1.0	VB

Key:
SIM - selected ion monitoring
VB - analyte present in the blank and the sample.
mg/Kg - milligram per kilogram
mg/L - miligram per liter

Table 1 Number of Primary, Field Duplicate, QA, and Trip Blank Samples

Matrix	Parameter	Method	Number of Primary Samples	Number of Field Duplicate Samples	Number of Trip Blank Samples	Number of QA Samples	Number of QA Trip Blank Samples
Soil	BTEX	SW8260SIM	22	3	5	3	1
	VOC	SW8260	11	1	1	2	0
	PAH	SW8270C SIM	102	12	0	11	0
	DRO	AK102	152	17	0	17	0
	GRO	AK101	24	4	5	3	1
	RRO	AK103	152	17	0	17	0
	TOC	Lab SOP	91	0	0	0	0
	TAL Metals	SW6010B/ SW7000/ EPA200.8	29	3	0	4	0
	Pb	SW7421	2	1	0	1	0
	Pb, Zn, Cr	SW6010B	83	11	0	9	0
	Pesticides	SW8081	19	4	0	1	0
	PCBs	SW8082	135	16	0	14	0
Water	PAH	SW8270SIM	19	3	0	3	0
	GRO	AK101	29	4	9	4	4
	DRO	AK102	47	6	0	6	0
	RRO	AK103	47	6	0	5	0
	TAL Metals	SW6010B/ SW7000	22	3	0	3	0
	PCBs	SW8082	33	3	0	4	0
	VOCs	SW8260	15	2	4	2	2
	SVOCs	SW8270	3	1	0	1	0
	BTEX	SW8260	12	2	4	1	1
	Natural Attenuation	multiple methods *	6	0	0	0	0
Tissue -Fish	Total Lipids	EPA 160.1	30	0	0	0	0
	Metals Ag, As, Ba, Cd, Cu, Hg, Ni, Pb, Sb, Se, V, Zn	SW6010B/6020/ 7000/EPA 200.8	31	0	0	0	0
	PAH	SW8270C SIM	31	0	0	0	0
	PCBs	SW8082	31	0	0	0	0
Tissue -Plants	PAH	SW8270C SIM	20	1	0	0	0
	Metals Ag, As, Ba, Cd, Cr, Cu, Hg, Ni, Pb, Se, V, Zn	SW6010B/ SW6020/7000	20	1	0	0	0
	PCBs	SW8082	20	1	0	0	0

Key:

Ag - silver

AK - Alaska Method

As - arsenic
Ba - barium
BTEX - benzene, toluene, ethylbenzene, xylenes
Cd - cadmium
Cr - chromium
Cu - copper
DRO - diesel range organics
EPA
GRO - gasoline range organics
Hg - mercury
Ni - nickel
PAH - polynuclear aromatic hydrocarbon
Pb - lead
PCBs - polychlorinated biphenyls
RRO - residual range organics
Se - selenium
SIM - selected ion monitoring
SW - Solid Waste Method
TAL - Target Analyte List
Tl - thallium
TOC - total organic carbon
V - vanadium
Zn - zinc
QA - quality assurance
* - natural attenuation laboratory parameters included: Alkalinity by A2320B, Chloride by EPA 300, Sulfate by EPA 300, Nitrogen - Ammonia (N) by EPA 350.1, Nitrogen - Kjeldahl by by EPA 351.4, Nitrogen, nitrate_nitrite by EPA 353.2, Sulfide by EPA 376.2, chemical oxygen Demand by EPA 410.4, total and dissolved iron and manganese by SW6010B.

MWH collected soil and water samples between August 14 and August 22, 2002. Table 1 provides a summary of sample counts by matrix, parameter, and quality control (QC) description (primary sample, field duplicate sample, QA sample or trip blank). Primary and field duplicate soil and water samples were submitted to Columbia Analytical Services, Inc. (CAS) and QA soil and water samples were submitted to Sound Analytical Services (SAS).

This data review includes data from CAS.

The following QC samples and indicators were reviewed in accordance with established precision, accuracy, reproducibility, comparability, and completeness (PARCC) parameters. PARCC parameters were defined in the Phase III Remedial Investigation Final Work Plan (MWH, 2001). Data were qualified based on the EPA's National Functional Guidelines (USEPA 1999).

The following specific QC samples, indicators, and associated documentation were reviewed:

Sample Handling Forms (Chain-of-custody [CoCs])
Sample Holding Times
Temperature Blanks
Trip Blanks
Field Duplicates
Equipment Blanks
Method and Instrument Blanks
Surrogates
Continuing Calibration Verification (CCV) Samples
Laboratory Control Samples (LCS) and LCS Duplicates (LCSD)
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Samples

REVIEW RESULTS

Based on the data reviewed, the following flags were used to qualify data in this report:

VB – The analyte was detected in the associated blank and the sample indicating possible contamination.
VHB – Result is an estimate with a high bias.
VJ – The analyte was positively identified; the quantitation is an estimation.
VLB – Result is an estimate with a low bias.
VQQ – The practical quantation limit is approximate due to QC or matrix effects.

The final qualifier reflects the most severe qualifier that was applied to the data. The hierarchy of data qualifiers, listed in order of the most severe through the least severe, are VB, VJ, VLB/VHB and VQQ. Table 2 summarizes qualified results with final qualifiers. Appendix D summarizes all data reported with final qualifiers.

SAMPLING HANDLING

All reviewed laboratory sample receipt forms, CoCs, and case narratives indicate that sample handling procedures were in control with the exception of cooler temperature blanks.

Cooler Temperature Blanks

All coolers temperature blanks were received within the acceptance range of 2-6 degree Celisus (° C) with the exception of cooler temperature blanks less than 2 ° C. Sample results were not qualified based on cooler temperatures below 2, samples were received in good condition and not frozen.

Holding Times

All samples were extracted or analyzed, or both, within the recommended holding time for the analytical procedures used for this project.

Trip Blanks

Table 3 summarizes field samples with target analytes in associated trip blanks. Field samples associated with contaminated trip blanks were qualified for cases when the concentration in the sample was within 10 times the concentration of the trip blank. Samples free of the trip blank contaminant were not qualified.

Equipment Blanks

Field samples associated with contaminated equipment blanks were not qualified because the concentration in samples were greater than10 times the concentration of the equipment blank, samples were free of equipment blank contaminant, and/or analyte was present in associated trip blank.

Field Duplicates

As part of the 2002 Northeast Cape sampling event, 5 soil duplicates and 1 water duplicates were collected to evaluate precision. Table 4 summarizes primary, field duplicate, and QA sample relationships. Table 5 summarizes primary and QC results.

Precision among primary and duplicates were evaluated using the agreement criteria listed in Table 6 for each analyte and matrix. For sample sets that did not meet the criteria, all available documentation, including related analyte results and QC results, were reviewed to elucidate the cause of disagreement. The findings of this review are discussed below.

Field duplicates and primary soil and water sample results were in agreement with the exception of results between the MRL and MDL. This was due to the inherent low precision between the MRL and MDL; therefore, results were not qualified in these cases and not presented in this review.

All data reported by CAS were deemed acceptable for the purposes of this project, with the following qualifications.

GENERAL QUALIFICATIONS

This section is meant to explain qualifications that were applied to results.

Surrogates

Table 7 summarizes qualified samples with surrogate recoveries outside laboratory acceptance limits. Results were not qualified in cases when surrogates were outside acceptance limits due to dilution required for analysis. Similarly, results were not qualified if the surrogate recovery exceeded laboratory acceptance limits and there were no detections in the sample. When surrogate recoveries exceeded acceptance limits, positive results were qualified as estimates with a high bias. When surrogate recoveries were below acceptance limits, positive results were qualified as biased low and MRLs were qualified as estimates for analytes that were not detected.

MS/MSD

Sample results were not qualified for occasions when MS results were outside acceptance limits due to high concentrations of target and/or non-target analyte(s), dilutions, when all other QC parameters were well within limits and/or when the sample selected for spiking was not from the Northeast Cape Site. Sample results were not qualified for high relative percent difference (RPD) results if all other QC parameters were well within limits. For cases when RPD was above acceptance limits and one or both MS samples were outside acceptance limits, positive results were qualified as estimates for the spiked field sample.

METHOD SPECIFIC QUALIFICATIONS

This section summarizes qualifications, by method, where there are exceptions to the general qualification approaches and/or approaches to reporting.

BTEX by SW8260B

MS/MSD

The percent MSD recoveries were below laboratory acceptance limits (76-138 percent) for benzene (66 percent), below laboratory acceptance limits (76-139 percent) for ethylbenzene (40 percent), and below laboratory acceptance limits (86-130 percent) for m,p-xylenes (60 percent) in sample 02NE88GW007. Benzene, ethylbenzene, and m,p-xylenes results were not qualified based on MSD recovery because the MS recoveries were within range and the RPDs between the MS and MSD also met criteria.

DRO by AK102

MS/MSD

The percent MS/MSD recoveries were below laboratory acceptance limits (75-125 percent) for DRO (2.5 and 69 percent) in sample 02NE88GW007. Results were not qualified based on the MS/MSD recoveries due to the concentration of DRO in the sample (6.100 mg/L) was greater than 4 times the spike amount (0.8 mg /L).

Methane, ethane, and ethene by RSK175

MS

The percent MS recovery was below laboratory acceptance limits (61-126 percent) for methane (56 percent) in sample 02NE88GW007. Result was qualified as bias low due to MS recovery,

Completeness

Completeness is an expression of how many valid results were received from the laboratory relative to the number expected. The parameter is calculated in the following manner:

$$\%C = (V/T) \times 100\%$$

Where:

%C = percent completeness;
V = number of measurements judged valid; and
T = number of valid measurements needed to achieve a specific statistical level of confidence.

All data, including qualified results, were considered valid and acceptable for use. The completeness goal of 95 percent for all analyses was met.

References

MWH. 2001. Work Plan Phase III Remedial Investigation Northeast Cape, St. Lawrence Island, Alaska Final. August.

United States Environmental Protection Agency. 1999. Contract Laboratory Program National Functional Guidelines for Organic Data Review.

Table 1 Number of Primary, Field Duplicate, QA, and Trip Blank Samples

Matrix	Parameter	Method	Number of Primary Samples	Number of Field Duplicate Samples	Number of Trip Blank Samples	Number of Equipment Blanks	Number of QA Samples	Number of QA Trip Blank Samples
Soil	BTEX	SW8260B	40	5	3		4	1
	GRO	AK101	40	5	3		4	1
	DRO	AK102	40	5			4	
	RRO	AK103	40	5			4	
	PAH	SW8270C SIM	40	5			4	
	TOC	Lab SOP	40	5			4	
	Pb, Zn, Cr	SW6020	40	5			4	
	PCBs	SW8082	40	5			4	
Water	BTEX	SW8260B	10	1	3	5	1	1
	GRO	AK101	10	1	3	5	1	1
	DRO	AK102	10	1		5	1	
	RRO	AK103	10	1		5	1	
	Methane, Ethane, Ethene	RSK 175	10	1	2			
	Alkalinity	EPA 300	10	1				
	Sulfate	EPA 300	10	1				

Key:

AK - Alaska Method
BTEX - benzene, toluene, ethylbenzene, xylenes
Cr - chromium
DRO - diesel range organics
EPA - Environmental Protection Agency
GRO - gasoline range organics
PAH - polynuclear aromatic hydrocarbon
Pb - lead
PCBs - polychlorinated biphenyls
RRO - residual range organics
SIM - selected ion monitoring
SW - Solid Waste Method
TOC - total organic carbon
Zn - zinc
QA - quality assurance

Table 2 Summary of Qualified Results

Sample ID	Matrix	Method	Analyte	Results	MRL	MDL	Units	Final Qualifier
02NE88EB001	W	AK103	Residual Range Organics	0.081	0.2	0.073	mg/L	VJ
		SW8260B	Benzene	0.00021	0.0005	0.00011	mg/L	VJ
			o-Xylene	0.00009	0.0005	0.000079	mg/L	VJ
			Toluene	0.00045	0.0005	0.000098	mg/L	VB
			Xylene, Isomers m & p	0.00022	0.0005	0.00022	mg/L	VJ
02NE88EB002	W	SW8260B	Toluene	0.00013	0.0005	0.000098	mg/L	VB
02NE88EB003	W	SW8260B	o-Xylene	0.00008	0.0005	0.000079	mg/L	VJ
			Toluene	0.00013	0.0005	0.000098	mg/L	VB
02NE88EB004	W	SW8260B	Toluene	0.00013	0.0005	0.000098	mg/L	VB
02NE88EB005	W	SW8260B	Toluene	0.00015	0.0005	0.000098	mg/L	VB
02NE88GW001	W	AK101	Gasoline Range Organics	0.024	0.05	0.02	mg/L	VJ
		SW8260B	o-Xylene	0.00013	0.0005	0.000079	mg/L	VJ
			Toluene	0.00061	0.0005	0.000098	mg/L	VB
			Xylene, Isomers m & p	0.00022	0.0005	0.00022	mg/L	VJ
02NE88GW002	W	SW8260B	Ethylbenzene	0.00034	0.0005	0.00013	mg/L	VJ
			o-Xylene	0.0001	0.0005	0.000079	mg/L	VJ
			Toluene	0.00036	0.0005	0.000098	mg/L	VB
			Xylene, Isomers m & p	0.00035	0.0005	0.00022	mg/L	VJ
02NE88GW003	W	SW8260B	o-Xylene	0.00008	0.0005	0.000079	mg/L	VJ
			Toluene	0.00024	0.0005	0.000098	mg/L	VB
02NE88GW006	W	SW8260B	Toluene	0.00019	0.0005	0.000098	mg/L	VB
02NE88GW007	W	AK102	Diesel Range Organics	6.1	0.11	0.043	mg/L	VLB
		RSK175	Methane	1.2	0.0005	0.0003	mg/L	VLB
		SW8260B	Toluene	0.0012	0.0005	0.000098	mg/L	VB
02NE88GW008	W	AK103	Residual Range Organics	0.18	0.2	0.073	mg/L	VJ
		SW8260B	Benzene	0.00012	0.0005	0.00011	mg/L	VJ
			Toluene	0.00011	0.0005	0.000098	mg/L	VB
02NE88GW010	W	SW8260B	o-Xylene	0.00015	0.0005	0.000079	mg/L	VJ
02NE88SB001	SO	AK103	Residual Range Organics	39	110	4.5	mg/Kg	VJ
		SIM	Benzo(a)anthracene	0.00051	0.0053	0.00014	mg/Kg	VJ
			Benzo(b)fluoranthene	0.0007	0.0053	0.00015	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.00026	0.0053	0.00011	mg/Kg	VJ
			Chrysene	0.001	0.0053	0.00016	mg/Kg	VJ
			Indeno(1,2,3-cd)pyrene	0.00024	0.0053	0.00016	mg/Kg	VJ
			Naphthalene	0.0022	0.0053	0.00023	mg/Kg	VJ
			Pyrene	0.0043	0.0053	0.00012	mg/Kg	VJ
02NE88SB002	SO	AK103	Residual Range Organics	16	110	4.4	mg/Kg	VJ
		SIM	Benzo(b)fluoranthene	0.00031	0.0052	0.00015	mg/Kg	VJ
			Chrysene	0.00066	0.0052	0.00016	mg/Kg	VJ
			Naphthalene	0.00038	0.0052	0.00022	mg/Kg	VJ
			Pyrene	0.0022	0.0052	0.00012	mg/Kg	VJ
02NE88SB003	SO	AK103	Residual Range Organics	6	120	4.9	mg/Kg	VJ
		SIM	Benzo(b)fluoranthene	0.00045	0.0058	0.00016	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.00065	0.0058	0.00012	mg/Kg	VJ
			Dibenzo(a,h)anthracene	0.00048	0.0058	0.00021	mg/Kg	VJ
			Indeno(1,2,3-cd)pyrene	0.00048	0.0058	0.00018	mg/Kg	VJ
			Naphthalene	0.001	0.0058	0.00024	mg/Kg	VJ
			Phenanthrene	0.00026	0.0058	0.00018	mg/Kg	VJ
02NE88SB004	SO	AK103	Residual Range Organics	7.1	110	4.5	mg/Kg	VJ
		SIM	Benzo(b)fluoranthene	0.0003	0.0053	0.00015	mg/Kg	VJ
			Naphthalene	0.00056	0.0053	0.00023	mg/Kg	VJ
02NE88SB005	SO	AK102	Diesel Range Organics	7.6	12	5.4	mg/Kg	VJ
		AK103	Residual Range Organics	120	120	5.1	mg/Kg	VJ
		SIM	Benzo(b)fluoranthene	0.00032	0.006	0.00017	mg/Kg	VJ
			Chrysene	0.00032	0.006	0.00018	mg/Kg	VJ
			Naphthalene	0.00081	0.006	0.00025	mg/Kg	VJ
			Phenanthrene	0.00051	0.006	0.00018	mg/Kg	VJ

Table 2 Summary of Qualified Results

Sample ID	Matrix	Method	Analyte	Results	MRL	MDL	Units	Final Qualifier
02NE88SB005	SO	SIM	Pyrene	0.00017	0.006	0.00014	mg/Kg	VJ
02NE88SB006	SO	AK103	Residual Range Organics	24	110	4.6	mg/Kg	VJ
		SIM	Benzo(a)anthracene	0.0011	0.0055	0.00015	mg/Kg	VJ
			Benzo(b)fluoranthene	0.00074	0.0055	0.00016	mg/Kg	VJ
			Chrysene	0.0027	0.0055	0.00017	mg/Kg	VJ
			Fluoranthene	0.0041	0.0055	0.00019	mg/Kg	VJ
		SW6020	Lead	26.2	0.05	0.03	mg/Kg	VJ
		SW8260B	Ethylbenzene	0.34	0.051	0.011	mg/Kg	VJ
			Xylene, Isomers m & p	0.31	0.051	0.021	mg/Kg	VJ
02NE88SB007	SO	SIM	Acenaphthene	0.29	0.034	0.0015	mg/Kg	VHB
			Anthracene	0.026	0.034	0.0013	mg/Kg	VJ
			Benzo(b)fluoranthene	0.0044	0.034	0.00095	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.00094	0.034	0.00068	mg/Kg	VJ
			Chrysene	0.0033	0.034	0.0011	mg/Kg	VJ
			Fluoranthene	0.0042	0.034	0.0012	mg/Kg	VJ
			Fluorene	0.8	0.034	0.0012	mg/Kg	VHB
			Naphthalene	5.9	0.034	0.0015	mg/Kg	VHB
			Phenanthrene	0.59	0.034	0.0011	mg/Kg	VHB
			Pyrene	0.01	0.034	0.00075	mg/Kg	VJ
02NE88SB008	SO	AK101	Gasoline Range Organics	54	3.5	2.2	mg/Kg	VHB
		AK103	Residual Range Organics	16	110	4.7	mg/Kg	VJ
		SIM	Benzo(a)anthracene	0.00065	0.0055	0.00015	mg/Kg	VJ
			Chrysene	0.0014	0.0055	0.00017	mg/Kg	VJ
			Fluoranthene	0.0017	0.0055	0.00019	mg/Kg	VJ
			Pyrene	0.0047	0.0055	0.00013	mg/Kg	VJ
		SW8260B	o-Xylene	0.01	0.044	0.0086	mg/Kg	VJ
02NE88SB009	SO	SIM	Acenaphthene	0.0043	0.0054	0.00023	mg/Kg	VJ
			Acenaphthylene	0.00055	0.0054	0.00018	mg/Kg	VJ
			Dibenzo(a,h)anthracene	0.0043	0.0054	0.0002	mg/Kg	VJ
			Fluorene	0.0045	0.0054	0.00019	mg/Kg	VJ
			Naphthalene	0.0041	0.0054	0.00023	mg/Kg	VJ
02NE88SB010	SO	AK103	Residual Range Organics	25	110	4.7	mg/Kg	VJ
		SIM	Acenaphthene	0.0006	0.0056	0.00024	mg/Kg	VJ
			Fluorene	0.0021	0.0056	0.00019	mg/Kg	VJ
			Naphthalene	0.0037	0.0056	0.00024	mg/Kg	VJ
			Phenanthrene	0.00081	0.0056	0.00017	mg/Kg	VJ
02NE88SB011	SO	AK101	Gasoline Range Organics	130	3.3	2.2	mg/Kg	VHB
		AK103	Residual Range Organics	23	110	4.7	mg/Kg	VJ
		SIM	Anthracene	0.0035	0.0055	0.00021	mg/Kg	VJ
			Benzo(a)anthracene	0.00023	0.0055	0.00015	mg/Kg	VJ
			Benzo(b)fluoranthene	0.0005	0.0055	0.00016	mg/Kg	VJ
			Chrysene	0.00064	0.0055	0.00017	mg/Kg	VJ
			Fluoranthene	0.0008	0.0055	0.00019	mg/Kg	VJ
			Pyrene	0.0022	0.0055	0.00013	mg/Kg	VJ
02NE88SB012	SO	AK101	Gasoline Range Organics	83	3	2.2	mg/Kg	VHB
		AK103	Residual Range Organics	30	110	4.6	mg/Kg	VJ
		SIM	Anthracene	0.0025	0.0055	0.00021	mg/Kg	VJ
			Benzo(b)fluoranthene	0.00089	0.0055	0.00016	mg/Kg	VJ
			Fluoranthene	0.00044	0.0055	0.00019	mg/Kg	VJ
			Pyrene	0.0015	0.0055	0.00012	mg/Kg	VJ
		SW8082	PCB-1260 (Aroclor 1260)	0.0097	0.11	0.005	mg/Kg	VJ
		SW8260B	o-Xylene	0.013	0.028	0.0085	mg/Kg	VJ
02NE88SB013	SO	AK101	Gasoline Range Organics	140	2.9	2.2	mg/Kg	VHB
		AK103	Residual Range Organics	55	110	4.5	mg/Kg	VJ
		SIM	Benzo(a)anthracene	0.00077	0.0053	0.00014	mg/Kg	VJ
			Benzo(b)fluoranthene	0.00045	0.0053	0.00015	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.0002	0.0053	0.00011	mg/Kg	VJ

Table 2 Summary of Qualified Results

Sample ID	Matrix	Method	Analyte	Results	MRL	MDL	Units	Final Qualifier
02NE88SB013	SO	SIM	Benzo(k)fluoranthene	0.00018	0.0053	0.00016	mg/Kg	VJ
			Chrysene	0.0015	0.0053	0.00016	mg/Kg	VJ
			Fluoranthene	0.0019	0.0053	0.00018	mg/Kg	VJ
			Indeno(1,2,3-cd)pyrene	0.00017	0.0053	0.00016	mg/Kg	VJ
			Pyrene	0.0048	0.0053	0.00012	mg/Kg	VJ
02NE88SB014	SO	AK101	Gasoline Range Organics	130	2.4	2.1	mg/Kg	VHB
		AK103	Residual Range Organics	54	110	4.4	mg/Kg	VJ
		SIM	Benzo(a)anthracene	0.00076	0.0053	0.00014	mg/Kg	VJ
			Benzo(b)fluoranthene	0.00094	0.0053	0.00015	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.00015	0.0053	0.00011	mg/Kg	VJ
			Chrysene	0.0015	0.0053	0.00016	mg/Kg	VJ
			Fluoranthene	0.0019	0.0053	0.00018	mg/Kg	VJ
			Pyrene	0.0043	0.0053	0.00012	mg/Kg	VJ
02NE88SB015	SO	AK101	Gasoline Range Organics	68	4.5	2.2	mg/Kg	VHB
		AK103	Residual Range Organics	11	110	4.7	mg/Kg	VJ
		SIM	Benzo(a)anthracene	0.00038	0.0055	0.00015	mg/Kg	VJ
			Benzo(b)fluoranthene	0.00034	0.0055	0.00016	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.00025	0.0055	0.00011	mg/Kg	VJ
			Benzo(k)fluoranthene	0.00017	0.0055	0.00017	mg/Kg	VJ
			Chrysene	0.00087	0.0055	0.00017	mg/Kg	VJ
			Fluoranthene	0.0012	0.0055	0.00019	mg/Kg	VJ
			Indeno(1,2,3-cd)pyrene	0.0002	0.0055	0.00017	mg/Kg	VJ
			Pyrene	0.0023	0.0055	0.00013	mg/Kg	VJ
		SW8082	PCB-1260 (Aroclor 1260)	0.0065	0.11	0.0051	mg/Kg	VJ
02NE88SB016	SO	AK101	Gasoline Range Organics	73	4.7	2.2	mg/Kg	VHB
		AK103	Residual Range Organics	7.4	110	4.6	mg/Kg	VJ
		SIM	Anthracene	0.0035	0.0055	0.00021	mg/Kg	VJ
			Benzo(b)fluoranthene	0.00032	0.0055	0.00016	mg/Kg	VJ
			Chrysene	0.00042	0.0055	0.00017	mg/Kg	VJ
			Fluoranthene	0.00048	0.0055	0.00019	mg/Kg	VJ
			Pyrene	0.00095	0.0055	0.00012	mg/Kg	VJ
02NE88SB017	SO	AK102	Diesel Range Organics	7	11	4.7	mg/Kg	VJ
		AK103	Residual Range Organics	8.7	110	4.4	mg/Kg	VJ
		SIM	Benzo(b)fluoranthene	0.00023	0.0052	0.00015	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.00014	0.0052	0.00011	mg/Kg	VJ
			Chrysene	0.00018	0.0052	0.00016	mg/Kg	VJ
			Naphthalene	0.00045	0.0052	0.00022	mg/Kg	VJ
			Phenanthrene	0.0004	0.0052	0.00016	mg/Kg	VJ
02NE88SB018	SO	AK102	Diesel Range Organics	7.6	11	5	mg/Kg	VJ
		AK103	Residual Range Organics	12	110	4.6	mg/Kg	VJ
		SIM	Benzo(b)fluoranthene	0.00034	0.0055	0.00016	mg/Kg	VJ
			Chrysene	0.00032	0.0055	0.00017	mg/Kg	VJ
			Fluorene	0.00022	0.0055	0.00019	mg/Kg	VJ
			Naphthalene	0.0019	0.0055	0.00023	mg/Kg	VJ
			Phenanthrene	0.00068	0.0055	0.00017	mg/Kg	VJ
			Pyrene	0.00014	0.0055	0.00012	mg/Kg	VJ
02NE88SB019	SO	SIM	Anthracene	0.0021	0.0054	0.00021	mg/Kg	VJ
			Benzo(b)fluoranthene	0.00018	0.0054	0.00016	mg/Kg	VJ
			Chrysene	0.00035	0.0054	0.00017	mg/Kg	VJ
			Fluoranthene	0.00019	0.0054	0.00019	mg/Kg	VJ
			Pyrene	0.00062	0.0054	0.00012	mg/Kg	VJ
		SW8260B	Ethylbenzene	0.018	0.038	0.011	mg/Kg	VJ
02NE88SB020	SO	SIM	Anthracene	0.0019	0.0054	0.00021	mg/Kg	VJ
			Benzo(b)fluoranthene	0.0003	0.0054	0.00016	mg/Kg	VJ
			Chrysene	0.00023	0.0054	0.00017	mg/Kg	VJ
			Fluoranthene	0.00028	0.0054	0.00019	mg/Kg	VJ
			Pyrene	0.0005	0.0054	0.00012	mg/Kg	VJ

Table 2 Summary of Qualified Results

Sample ID	Matrix	Method	Analyte	Results	MRL	MDL	Units	Final Qualifier
02NE88SB021	SO	SIM	Anthracene	0.012	0.05	0.0019	mg/Kg	VJ
			Benzo(b)fluoranthene	0.0052	0.05	0.0014	mg/Kg	VJ
			Fluoranthene	0.0029	0.05	0.0017	mg/Kg	VJ
			Pyrene	0.0059	0.05	0.0011	mg/Kg	VJ
02NE88SB022	SO	SIM	Acenaphthene	2.6	0.14	0.0057	mg/Kg	VHB
			Anthracene	0.3	0.14	0.0052	mg/Kg	VHB
			Benzo(a)anthracene	0.006	0.14	0.0036	mg/Kg	VJ
			Benzo(b)fluoranthene	0.016	0.14	0.0038	mg/Kg	VJ
			Fluoranthene	0.048	0.14	0.0046	mg/Kg	VJ
			Fluorene	6.9	0.14	0.0046	mg/Kg	VHB
			Phenanthrene	5.5	0.14	0.0041	mg/Kg	VHB
			Pyrene	0.12	0.14	0.003	mg/Kg	VJ
02NE88SB023	SO	SIM	Acenaphthene	0.00028	0.0066	0.00028	mg/Kg	VJ
			Anthracene	0.00081	0.0066	0.00025	mg/Kg	VJ
			Benzo(a)anthracene	0.00027	0.0066	0.00017	mg/Kg	VJ
			Benzo(b)fluoranthene	0.00048	0.0066	0.00019	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.0002	0.0066	0.00014	mg/Kg	VJ
			Chrysene	0.00067	0.0066	0.0002	mg/Kg	VJ
			Fluoranthene	0.00088	0.0066	0.00023	mg/Kg	VJ
			Fluorene	0.00068	0.0066	0.00023	mg/Kg	VJ
			Naphthalene	0.0045	0.0066	0.00028	mg/Kg	VJ
			Phenanthrene	0.0022	0.0066	0.0002	mg/Kg	VJ
			Pyrene	0.0008	0.0066	0.00015	mg/Kg	VJ
02NE88SB024	SO	AK103	Residual Range Organics	33	110	4.6	mg/Kg	VJ
		SIM	Benzo(b)fluoranthene	0.00027	0.0055	0.00016	mg/Kg	VJ
			Fluoranthene	0.00019	0.0055	0.00019	mg/Kg	VJ
			Fluorene	0.00051	0.0055	0.00019	mg/Kg	VJ
			Naphthalene	0.0011	0.0055	0.00023	mg/Kg	VJ
			Phenanthrene	0.00084	0.0055	0.00017	mg/Kg	VJ
			Pyrene	0.00017	0.0055	0.00012	mg/Kg	VJ
02NE88SB025	SO	AK101	Gasoline Range Organics	11	19	7.4	mg/Kg	VJ
		SIM	Acenaphthene	0.0026	0.021	0.00087	mg/Kg	VJ
			Acenaphthylene	0.0011	0.021	0.00066	mg/Kg	VJ
			Benzo(b)fluoranthene	0.021	0.021	0.00058	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.0088	0.021	0.00042	mg/Kg	VJ
			Fluoranthene	0.0025	0.021	0.00071	mg/Kg	VJ
			Fluorene	0.006	0.021	0.00071	mg/Kg	VJ
			Phenanthrene	0.0083	0.021	0.00062	mg/Kg	VJ
			Pyrene	0.0026	0.021	0.00046	mg/Kg	VJ
		SW8260B	Ethylbenzene	0.034	0.18	0.034	mg/Kg	VJ
			o-Xylene	0.071	0.18	0.027	mg/Kg	VJ
02NE88SB026	SO	SIM	Acenaphthene	0.00037	0.0076	0.00032	mg/Kg	VJ
			Benzo(b)fluoranthene	0.00057	0.0076	0.00022	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.00021	0.0076	0.00016	mg/Kg	VJ
			Chrysene	0.0029	0.0076	0.00023	mg/Kg	VJ
			Fluoranthene	0.0004	0.0076	0.00026	mg/Kg	VJ
			Fluorene	0.00061	0.0076	0.00026	mg/Kg	VJ
			Naphthalene	0.0018	0.0076	0.00032	mg/Kg	VJ
			Phenanthrene	0.0027	0.0076	0.00023	mg/Kg	VJ
			Pyrene	0.0004	0.0076	0.00017	mg/Kg	VJ
02NE88SB027	SO	AK101	Gasoline Range Organics	220	5.4	2.5	mg/Kg	VHB
		SIM	Benzo(a)anthracene	0.012	0.031	0.00079	mg/Kg	VJ
			Benzo(a)pyrene	0.0032	0.031	0.00086	mg/Kg	VJ
			Benzo(b)fluoranthene	0.007	0.031	0.00086	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.0016	0.031	0.00061	mg/Kg	VJ
			Benzo(k)fluoranthene	0.0033	0.031	0.00092	mg/Kg	VJ
			Chrysene	0.024	0.031	0.00092	mg/Kg	VJ

Table 2 Summary of Qualified Results

Sample ID	Matrix	Method	Analyte	Results	MRL	MDL	Units	Final Qualifier
02NE88SB027	SO	SIM	Indeno(1,2,3-cd)pyrene	0.0018	0.031	0.00092	mg/Kg	VJ
		SW8082	PCB-1260 (Aroclor 1260)	0.035	0.13	0.0056	mg/Kg	VJ
		SW8260B	Toluene	0.036	0.041	0.012	mg/Kg	VJ
02NE88SB028	SO	SIM	Anthracene	0.00076	0.0069	0.00027	mg/Kg	VJ
			Benzo(a)anthracene	0.00032	0.0069	0.00018	mg/Kg	VJ
			Benzo(b)fluoranthene	0.0012	0.0069	0.0002	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.00048	0.0069	0.00014	mg/Kg	VJ
			Chrysene	0.0029	0.0069	0.00021	mg/Kg	VJ
			Fluoranthene	0.00069	0.0069	0.00024	mg/Kg	VJ
			Pyrene	0.001	0.0069	0.00016	mg/Kg	VJ
02NE88SB029	SO	SIM	Acenaphthene	0.00038	0.0062	0.00027	mg/Kg	VJ
			Anthracene	0.0003	0.0062	0.00024	mg/Kg	VJ
			Benzo(a)anthracene	0.00024	0.0062	0.00017	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.00024	0.0062	0.00013	mg/Kg	VJ
			Chrysene	0.0013	0.0062	0.00019	mg/Kg	VJ
			Fluoranthene	0.00077	0.0062	0.00022	mg/Kg	VJ
			Fluorene	0.0012	0.0062	0.00022	mg/Kg	VJ
			Phenanthrene	0.0034	0.0062	0.00019	mg/Kg	VJ
			Pyrene	0.00066	0.0062	0.00014	mg/Kg	VJ
		SW8260B	o-Xylene	0.01	0.044	0.0098	mg/Kg	VJ
02NE88SB030	SO	SIM	Benzo(b)fluoranthene	0.0017	0.0064	0.00018	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.00044	0.0064	0.00013	mg/Kg	VJ
			Chrysene	0.0021	0.0064	0.0002	mg/Kg	VJ
			Fluoranthene	0.00044	0.0064	0.00022	mg/Kg	VJ
			Fluorene	0.00087	0.0064	0.00022	mg/Kg	VJ
			Naphthalene	0.0047	0.0064	0.00027	mg/Kg	VJ
			Phenanthrene	0.0055	0.0064	0.0002	mg/Kg	VJ
			Pyrene	0.00066	0.0064	0.00015	mg/Kg	VJ
02NE88SB031	SO	AK101	Gasoline Range Organics	110	4	2.2	mg/Kg	VHB
		AK103	Residual Range Organics	33	110	4.7	mg/Kg	VJ
		SIM	Benzo(a)anthracene	0.0017	0.0055	0.00015	mg/Kg	VJ
			Benzo(a)pyrene	0.00041	0.0055	0.00016	mg/Kg	VJ
			Benzo(b)fluoranthene	0.0017	0.0055	0.00016	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.00045	0.0055	0.00011	mg/Kg	VJ
			Benzo(k)fluoranthene	0.0016	0.0055	0.00017	mg/Kg	VJ
			Chrysene	0.0038	0.0055	0.00017	mg/Kg	VJ
			Indeno(1,2,3-cd)pyrene	0.00019	0.0055	0.00017	mg/Kg	VJ
		SW8260B	o-Xylene	0.015	0.036	0.0087	mg/Kg	VJ
			Toluene	0.032	0.036	0.011	mg/Kg	VJ
02NE88SB032	SO	AK101	Gasoline Range Organics	60	4.5	2.2	mg/Kg	VHB
		AK103	Residual Range Organics	12	110	4.6	mg/Kg	VJ
		SIM	Acenaphthene	0.11	0.0054	0.00023	mg/Kg	VLB
			Anthracene	0.011	0.0054	0.00021	mg/Kg	VLB
			Benzo(a)anthracene	0.00037	0.0054	0.00014	mg/Kg	VJ
			Benzo(b)fluoranthene	0.00042	0.0054	0.00015	mg/Kg	VJ
			Chrysene	0.00094	0.0054	0.00017	mg/Kg	VJ
			Fluoranthene	0.0017	0.0054	0.00019	mg/Kg	VJ
			Fluorene	0.47	0.0054	0.00019	mg/Kg	VLB
			Naphthalene	0.9	0.0054	0.00023	mg/Kg	VLB
			Phenanthrene	0.27	0.0054	0.00017	mg/Kg	VLB
			Pyrene	0.0035	0.0054	0.00012	mg/Kg	VJ
		SW8260B	Ethylbenzene	0.025	0.041	0.011	mg/Kg	VJ
02NE88SB033	SO	AK101	Gasoline Range Organics	130	2.6	2.4	mg/Kg	VHB
		SIM	Benzo(a)anthracene	0.001	0.0058	0.00016	mg/Kg	VJ
			Benzo(a)pyrene	0.00028	0.0058	0.00017	mg/Kg	VJ
			Benzo(b)fluoranthene	0.0013	0.0058	0.00017	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.00054	0.0058	0.00012	mg/Kg	VJ

Table 2 Summary of Qualified Results

Sample ID	Matrix	Method	Analyte	Results	MRL	MDL	Units	Final Qualifier
02NE88SB033	SO	SIM	Chrysene	0.0033	0.0058	0.00018	mg/Kg	VJ
			Fluoranthene	0.0021	0.0058	0.0002	mg/Kg	VJ
			Indeno(1,2,3-cd)pyrene	0.00023	0.0058	0.00018	mg/Kg	VJ
			Pyrene	0.0049	0.0058	0.00013	mg/Kg	VJ
		SW8260B	Ethylbenzene	1.2	0.021	0.012	mg/Kg	VHB
			o-Xylene	1.5	0.021	0.0091	mg/Kg	VHB
			Toluene	0.05	0.021	0.012	mg/Kg	VHB
			Xylene, Isomers m & p	4	0.022	0.022	mg/Kg	VHB
02NE88SB034	SO	AK101	Gasoline Range Organics	140	3	2.3	mg/Kg	VHB
		AK103	Residual Range Organics	110	120	4.8	mg/Kg	VJ
		SIM	Anthracene	0.0041	0.0056	0.00022	mg/Kg	VJ
			Benzo(a)anthracene	0.00043	0.0056	0.00015	mg/Kg	VJ
			Benzo(a)pyrene	0.00025	0.0056	0.00016	mg/Kg	VJ
			Benzo(b)fluoranthene	0.0038	0.0056	0.00016	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.00041	0.0056	0.00012	mg/Kg	VJ
			Benzo(k)fluoranthene	0.0036	0.0056	0.00017	mg/Kg	VJ
			Chrysene	0.0013	0.0056	0.00017	mg/Kg	VJ
			Dibenzo(a,h)anthracene	0.00026	0.0056	0.00021	mg/Kg	VJ
			Fluoranthene	0.001	0.0056	0.0002	mg/Kg	VJ
			Indeno(1,2,3-cd)pyrene	0.00034	0.0056	0.00017	mg/Kg	VJ
			Pyrene	0.0024	0.0056	0.00013	mg/Kg	VJ
		SW8260B	Ethylbenzene	0.94	0.023	0.011	mg/Kg	VHB
			o-Xylene	0.34	0.023	0.0088	mg/Kg	VHB
			Xylene, Isomers m & p	3	0.023	0.021	mg/Kg	VHB
		SW9060	Total Organic Carbon (TOC)	0.33	0.05	0.02	PERCENT	VJ
02NE88SB035	SO	AK101	Gasoline Range Organics	100	2.5	2.2	mg/Kg	VHB
		AK103	Residual Range Organics	24	110	4.5	mg/Kg	VJ
		SIM	Benzo(a)anthracene	0.00044	0.0054	0.00014	mg/Kg	VJ
			Benzo(b)fluoranthene	0.00062	0.0054	0.00015	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.00043	0.0054	0.00011	mg/Kg	VJ
			Chrysene	0.0013	0.0054	0.00016	mg/Kg	VJ
			Fluoranthene	0.0013	0.0054	0.00019	mg/Kg	VJ
			Pyrene	0.0027	0.0054	0.00012	mg/Kg	VJ
		SW8260B	Benzene	0.018	0.012	0.012	mg/Kg	VHB
			Ethylbenzene	1.1	0.025	0.011	mg/Kg	VHB
			o-Xylene	0.019	0.025	0.0084	mg/Kg	VJ
			Toluene	0.018	0.025	0.011	mg/Kg	VJ
			Xylene, Isomers m & p	0.95	0.025	0.02	mg/Kg	VHB
02NE88SB036	SO	AK101	Gasoline Range Organics	170	3.3	2.6	mg/Kg	VHB
		AK102	Diesel Range Organics	4000	13	5.7	mg/Kg	VJ
		SIM	Acenaphthene	0.13	0.0063	0.00027	mg/Kg	VJ
			Anthracene	0.0039	0.0063	0.00024	mg/Kg	VJ
			Benzo(a)anthracene	0.00021	0.0063	0.00017	mg/Kg	VJ
			Benzo(b)fluoranthene	0.00056	0.0063	0.00018	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.00031	0.0063	0.00013	mg/Kg	VJ
			Chrysene	0.0014	0.0063	0.00019	mg/Kg	VJ
			Fluoranthene	0.00097	0.0063	0.00022	mg/Kg	VJ
			Fluorene	0.38	0.0063	0.00022	mg/Kg	VJ
			Naphthalene	6.9	0.32	0.014	mg/Kg	VJ
			Phenanthrene	0.14	0.0063	0.00019	mg/Kg	VJ
		SIM	Pyrene	0.002	0.0063	0.00014	mg/Kg	VJ
		SW6020	Chromium	16.7	0.25	0.04	mg/Kg	VJ
			Lead	21.1	0.06	0.04	mg/Kg	VJ
			Zinc	57.5	0.6	0.1	mg/Kg	VJ
		SW8082	PCB-1260 (Aroclor 1260)	0.033	0.13	0.0058	mg/Kg	VJ
		SW8260B	Benzene	0.062	0.014	0.014	mg/Kg	VJ
			Ethylbenzene	2.2	0.03	0.013	mg/Kg	VJ

Table 2 Summary of Qualified Results

Sample ID	Matrix	Method	Analyte	Results	MRL	MDL	Units	Final Qualifier
02NE88SB036	SO	SW8260B	o-Xylene	1.3	0.03	0.0099	mg/Kg	VJ
			Xylene, Isomers m & p	4.4	0.03	0.024	mg/Kg	VJ
		SW9060	Total Organic Carbon (TOC)	0.81	0.05	0.02	PERCENT	VJ
02NE88SB037	SO	AK103	Residual Range Organics	13	110	4.7	mg/Kg	VJ
		SIM	Benzo(a)anthracene	0.00017	0.0056	0.00015	mg/Kg	VJ
			Chrysene	0.00036	0.0056	0.00017	mg/Kg	VJ
			Fluoranthene	0.00073	0.0056	0.00019	mg/Kg	VJ
			Naphthalene	0.00092	0.0056	0.00024	mg/Kg	VJ
			Phenanthrene	0.0012	0.0056	0.00017	mg/Kg	VJ
			Pyrene	0.00044	0.0056	0.00013	mg/Kg	VJ
02NE88SB038	SO	AK103	Residual Range Organics	5.4	110	4.5	mg/Kg	VJ
		SIM	Benzo(g,h,i)perylene	0.00015	0.0053	0.00011	mg/Kg	VJ
			Phenanthrene	0.00022	0.0053	0.00016	mg/Kg	VJ
02NE88SB039	SO	SIM	Benzo(b)fluoranthene	0.00056	0.0055	0.00016	mg/Kg	VJ
			Chrysene	0.00027	0.0055	0.00017	mg/Kg	VJ
			Fluoranthene	0.00024	0.0055	0.00019	mg/Kg	VJ
			Naphthalene	0.00072	0.0055	0.00023	mg/Kg	VJ
			Phenanthrene	0.00053	0.0055	0.00017	mg/Kg	VJ
			Pyrene	0.00021	0.0055	0.00013	mg/Kg	VJ
		SW6020	Chromium	9.09	0.22	0.03	mg/Kg	VJ
02NE88SB040	SO	SIM	Anthracene	0.0002	0.0053	0.0002	mg/Kg	VJ
			Benzo(b)fluoranthene	0.00035	0.0053	0.00015	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.00033	0.0053	0.00011	mg/Kg	VJ
			Chrysene	0.0002	0.0053	0.00016	mg/Kg	VJ
			Dibenzo(a,h)anthracene	0.00032	0.0053	0.00019	mg/Kg	VJ
			Fluoranthene	0.0007	0.0053	0.00018	mg/Kg	VJ
			Fluorene	0.0002	0.0053	0.00018	mg/Kg	VJ
			Indeno(1,2,3-cd)pyrene	0.00032	0.0053	0.00016	mg/Kg	VJ
			Naphthalene	0.00031	0.0053	0.00022	mg/Kg	VJ
			Phenanthrene	0.001	0.0053	0.00016	mg/Kg	VJ
			Pyrene	0.00051	0.0053	0.00012	mg/Kg	VJ
		SW9060	Total Organic Carbon (TOC)	0.04	0.05	0.02	PERCENT	VJ
02NE88SB206	SO	AK103	Residual Range Organics	23	110	4.7	mg/Kg	VJ
		SIM	Benzo(a)anthracene	0.0011	0.0056	0.00015	mg/Kg	VJ
			Chrysene	0.0027	0.0056	0.00017	mg/Kg	VJ
			Fluoranthene	0.004	0.0056	0.00019	mg/Kg	VJ
02NE88SB234	SO	AK101	Gasoline Range Organics	110	2.3	2.2	mg/Kg	VHB
		AK103	Residual Range Organics	54	110	4.7	mg/Kg	VJ
		SIM	Anthracene	0.0033	0.0055	0.00021	mg/Kg	VJ
			Benzo(a)anthracene	0.00021	0.0055	0.00015	mg/Kg	VJ
			Benzo(b)fluoranthene	0.00041	0.0055	0.00016	mg/Kg	VJ
			Chrysene	0.00091	0.0055	0.00017	mg/Kg	VJ
			Dibenzo(a,h)anthracene	0.00031	0.0055	0.0002	mg/Kg	VJ
			Fluoranthene	0.00079	0.0055	0.00019	mg/Kg	VJ
			Pyrene	0.0018	0.0055	0.00013	mg/Kg	VJ
		SW8260B	Ethylbenzene	0.83	0.025	0.011	mg/Kg	VHB
			o-Xylene	0.27	0.025	0.0087	mg/Kg	VHB
			Xylene, Isomers m & p	2.8	0.025	0.021	mg/Kg	VHB
02NE88SB236	SO	AK101	Gasoline Range Organics	88	2.5	2.2	mg/Kg	VHB
		SIM	Benzo(a)anthracene	0.001	0.0055	0.00015	mg/Kg	VJ
			Benzo(b)fluoranthene	0.0016	0.0055	0.00016	mg/Kg	VJ
			Benzo(g,h,i)perylene	0.00034	0.0055	0.00011	mg/Kg	VJ
			Chrysene	0.0021	0.0055	0.00017	mg/Kg	VJ
			Fluoranthene	0.0027	0.0055	0.00019	mg/Kg	VJ
			Indeno(1,2,3-cd)pyrene	0.00019	0.0055	0.00017	mg/Kg	VJ
			Pyrene	0.005	0.0055	0.00013	mg/Kg	VJ
		SW8082	PCB-1260 (Aroclor 1260)	0.059	0.11	0.0051	mg/Kg	VJ

Table 2 Summary of Qualified Results

Sample ID	Matrix	Method	Analyte	Results	MRL	MDL	Units	Final Qualifier
02NE88SB236	SO	SW8260B	Toluene	0.022	0.023	0.011	mg/Kg	VJ
02NE88SB237	SO	AK103	Residual Range Organics	5.6	110	4.7	mg/Kg	VJ
		SIM	Chrysene	0.00019	0.0055	0.00017	mg/Kg	VJ
			Naphthalene	0.00048	0.0055	0.00023	mg/Kg	VJ
			Phenanthrene	0.00056	0.0055	0.00017	mg/Kg	VJ
02NE88SB239	SO	AK103	Residual Range Organics	5	110	4.7	mg/Kg	VJ
	SO	SIM	Naphthalene	0.00046	0.0056	0.00024	mg/Kg	VJ
	SO	SIM	Phenanthrene	0.00048	0.0056	0.00017	mg/Kg	VJ
	SO	SIM	Pyrene	0.00015	0.0056	0.00013	mg/Kg	VJ
02NE88TB002	SO	SW8260B	Toluene	0.00015	0.0005	0.000098	mg/L	VJ
02NE88TB003	SO	SW8260B	Toluene	0.00013	0.0005	0.000098	mg/L	VB
02NE88TB006	SO	SW8260B	Toluene	0.00011	0.0005	0.000098	mg/L	VJ

Key:

AK - Alaska Method
MDL - method detection limit
mg/Kg - milligrams per kilogram
mg/L - milligrams per liter
MRL - method reporting limit
PCBs - polychlorinated biphenyls
SIM - selected ion monitoring
SO - soil
VB - The anlayte was deteced in the associated blank and the sample indicating possible contamination.
VB - The practical quantation limit is approximate due to QC or matrix effects.
VHB - Result is an estimate with a high bias.
VJ - The analyte was poistively identified; the quantitaion is an estimation.
VLB - Result is an estimate with a low bias.
W - water

Table 3 Summary of Contaminated Trip Blanks and Impacted Samples

Impacted Sample	Trip Blank	Method	Analyte	Results	MRL	MDL	Units	Dilution	Qualifier
	02NE88TB003	SW8260B	Toluene	0.00013	0.0005	0.000098	mg/L	1	
02NE88GW003		SW8260B	Toluene	0.00024	0.0005	0.000098	mg/L	1	VB
02NE88GW006		SW8260B	Toluene	0.00019	0.0005	0.000098	mg/L	1	VB
02NE88GW007		SW8260B	Toluene	0.0012	0.0005	0.000098	mg/L	1	VB
02NE88GW008		SW8260B	Toluene	0.00011	0.0005	0.000098	mg/L	1	VB
	02NE88TB002	SW8260B	Toluene	0.00015	0.0005	0.000098	mg/L	1	VJ
02NE88EB001		SW8260B	Toluene	0.00045	0.0005	0.000098	mg/L	1	VB
02NE88EB002		SW8260B	Toluene	0.00013	0.0005	0.000098	mg/L	1	VB
02NE88EB003		SW8260B	Toluene	0.00013	0.0005	0.000098	mg/L	1	VB
02NE88GW001		SW8260B	Toluene	0.00061	0.0005	0.000098	mg/L	1	VB
02NE88GW002		SW8260B	Toluene	0.00036	0.0005	0.000098	mg/L	1	VB
	02NE88TB006	SW8260B	Toluene	0.00011	0.0005	0.000098	mg/L	1	VJ
02NE88EB004		SW8260B	Toluene	0.00013	0.0005	0.000098	mg/L	1	VB
02NE88EB005		SW8260B	Toluene	0.00015	0.0005	0.000098	mg/L	1	VB
02NE88GW010		SW8260B	Toluene	0.0014	0.0005	0.000098	mg/L	1	- -

Key:
- - - result not qualified; sample result greater than 10 times the trip blank contamination.
MDL - method detection limit
MRL - method reporting limit
VB - The analyte was detected in the associated blank and the sample indicating possible contamination
VJ - The analyte was positively identified; the quantitation is an estimation.

Table 4 Summary of Primary, QC and QA Samples

Primary Sample	QC Sample	QA Samples	Parameters
02NE88SB039	02NE88SB239	02NE88SB339	BTEX, GRO, DRO, RRO, Cr, Pb, Zn, PAH SIM, PCBs, TOC
02NE88SB037	02NE88SB237	02NE88SB337	BTEX, GRO, DRO, RRO, Cr, Pb, Zn, PAH SIM, PCBs, TOC
02NE88SB036	02NE88SB236	02NE88SB336	BTEX, GRO, DRO, RRO, Cr, Pb, Zn, PAH SIM, PCBs, TOC
02NE88SB034	02NE88SB234	02NE88SB334	BTEX, GRO, DRO, RRO, Cr, Pb, Zn, PAH SIM, PCBs, TOC
02NE88SB006	02NE88SB206	02NE88SB306	BTEX, GRO, DRO, RRO, Cr, Pb, Zn, PAH SIM, PCBs, TOC
02NE88GW004	02NE88GW204	02NE88GW304	BTEX, GRO, DRO, RRO, Sulfate *, Alkalinity *, Ethane *, 'Ethene *, Methane *

Key:

* - only primary and QC samples were tested for these parameters
BTEX - benzene, toluene, ethylbenzene,xylenes
Cr - chromium
DRO - diesel range organics
GRO - gasoline range organics
PAH - polynuclear aromatic hydrocarbons
Pb - lead
PCBs - polychlorinated biphenyls
QA - quality assurance
QC - quality control
RRO - residual range organics
SIM - selected ion monitoring
TOC - total organic carbon
Zn - zinc

Table 5 Summary of Primary and QC Results

Method	Analyte	Primary Soil Sample 02NE88SB039	QC Soil Sample 02NE88SB239	Units	Agreement
AK101	Gasoline Range Organics	ND (4)	ND (4.2)	mg/Kg	Agree
AK102	Diesel Range Organics	ND (11)	ND (11)	mg/Kg	Agree
AK103	Residual Range Organics	ND (110)	5 VJ	mg/Kg	Agree *
E160.3M	Total Solids	91.6	90.2	PERCENT	Agree
SIM	Acenaphthene	ND (0.0055)	ND (0.0056)	mg/Kg	Agree
SIM	Acenaphthylene	ND (0.0055)	ND (0.0056)	mg/Kg	Agree
SIM	Anthracene	ND (0.0055)	ND (0.0056)	mg/Kg	Agree
SIM	Benzo(a)anthracene	ND (0.0055)	ND (0.0056)	mg/Kg	Agree
SIM	Benzo(a)pyrene	ND (0.0055)	ND (0.0056)	mg/Kg	Agree
SIM	Benzo(b)fluoranthene	0.00056 VJ	ND (0.0056)	mg/Kg	Agree
SIM	Benzo(g,h,i)perylene	ND (0.0055)	ND (0.0056)	mg/Kg	Agree
SIM	Benzo(k)fluoranthene	ND (0.0055)	ND (0.0056)	mg/Kg	Agree
SIM	Chrysene	0.00027 VJ	ND (0.0056)	mg/Kg	Agree
SIM	Dibenzo(a,h)anthracene	ND (0.0055)	ND (0.0056)	mg/Kg	Agree
SIM	Fluoranthene	0.00024 VJ	ND (0.0056)	mg/Kg	Agree
SIM	Fluorene	ND (0.0055)	ND (0.0056)	mg/Kg	Agree
SIM	Indeno(1,2,3-cd)pyrene	ND (0.0055)	ND (0.0056)	mg/Kg	Agree
SIM	Naphthalene	0.00072 VJ	0.00046 VJ	mg/Kg	Agree
SIM	Phenanthrene	0.00053 VJ	0.00048 VJ	mg/Kg	Agree
SIM	Pyrene	0.00021 VJ	0.00015 VJ	mg/Kg	Agree
SW6020	Chromium	9.09 VJ	7.71	mg/Kg	Agree
SW6020	Lead	31.4	31.2	mg/Kg	Agree
SW6020	Zinc	62.9	57	mg/Kg	Agree
SW8082	PCB-1016 (Aroclor 1016)	ND (0.11)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1221 (Aroclor 1221)	ND (0.22)	ND (0.22)	mg/Kg	Agree
SW8082	PCB-1232 (Aroclor 1232)	ND (0.11)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1242 (Aroclor 1242)	ND (0.11)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1248 (Aroclor 1248)	ND (0.11)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1254 (Aroclor 1254)	ND (0.11)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1260 (Aroclor 1260)	ND (0.11)	ND (0.11)	mg/Kg	Agree
SW8260B	Benzene	ND (0.016)	ND (0.019)	mg/Kg	Agree
SW8260B	Ethylbenzene	ND (0.038)	ND (0.046)	mg/Kg	Agree
SW8260B	o-Xylene	ND (0.038)	ND (0.046)	mg/Kg	Agree
SW8260B	Toluene	ND (0.038)	ND (0.046)	mg/Kg	Agree
SW8260B	Xylene, Isomers m & p	ND (0.038)	ND (0.046)	mg/Kg	Agree
SW9060	Total Organic Carbon (TOC)	0.07	0.08	PERCENT	Agree
		Primary Soil Sample 02NE88SB037	**QC Soil Sample 02NE88SB237**		**Agree**
AK101	Gasoline Range Organics	ND (4.1)	ND (4)	mg/Kg	Agree
AK102	Diesel Range Organics	ND (11)	ND (11)	mg/Kg	Agree
AK103	Residual Range Organics	13 VJ	5.6 VJ	mg/Kg	Agree
E160.3M	Total Solids	90.5	91.4	PERCENT	Agree
SIM	Acenaphthene	ND (0.0056)	ND (0.0055)	mg/Kg	Agree
SIM	Acenaphthylene	ND (0.0056)	ND (0.0055)	mg/Kg	Agree
SIM	Anthracene	ND (0.0056)	ND (0.0055)	mg/Kg	Agree
SIM	Benzo(a)anthracene	0.00017 VJ	ND (0.0055)	mg/Kg	Agree
SIM	Benzo(a)pyrene	ND (0.0056)	ND (0.0055)	mg/Kg	Agree
SIM	Benzo(b)fluoranthene	ND (0.0056)	ND (0.0055)	mg/Kg	Agree
SIM	Benzo(g,h,i)perylene	ND (0.0056)	ND (0.0055)	mg/Kg	Agree
SIM	Benzo(k)fluoranthene	ND (0.0056)	ND (0.0055)	mg/Kg	Agree
SIM	Chrysene	0.00036 VJ	0.00019 VJ	mg/Kg	Agree
SIM	Dibenzo(a,h)anthracene	ND (0.0056)	ND (0.0055)	mg/Kg	Agree
SIM	Fluoranthene	0.00073 VJ	ND (0.0055)	mg/Kg	Agree
SIM	Fluorene	ND (0.0056)	ND (0.0055)	mg/Kg	Agree
SIM	Indeno(1,2,3-cd)pyrene	ND (0.0056)	ND (0.0055)	mg/Kg	Agree

Table 5 Summary of Primary and QC Results

Method	Analyte	Primary Soil Sample 02NE88SB039	QC Soil Sample 02NE88SB239	Units	Agreement
SIM	Naphthalene	0.00092 VJ	0.00048 VJ	mg/Kg	Agree
SIM	Phenanthrene	0.0012 VJ	0.00056 VJ	mg/Kg	Agree
SIM	Pyrene	0.00044 VJ	ND (0.0055)	mg/Kg	Agree
SW6020	Chromium	7.26	8.11	mg/Kg	Agree
SW6020	Lead	30.5	33.7	mg/Kg	Agree
SW6020	Zinc	69.8	69.1	mg/Kg	Agree
SW8082	PCB-1016 (Aroclor 1016)	ND (0.11)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1221 (Aroclor 1221)	ND (0.22)	ND (0.22)	mg/Kg	Agree
SW8082	PCB-1232 (Aroclor 1232)	ND (0.11)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1242 (Aroclor 1242)	ND (0.11)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1248 (Aroclor 1248)	ND (0.11)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1254 (Aroclor 1254)	ND (0.11)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1260 (Aroclor 1260)	ND (0.11)	ND (0.11)	mg/Kg	Agree
SW8260B	Benzene	ND (0.019)	ND (0.017)	mg/Kg	Agree
SW8260B	Ethylbenzene	ND (0.047)	ND (0.041)	mg/Kg	Agree
SW8260B	o-Xylene	ND (0.047)	ND (0.041)	mg/Kg	Agree
SW8260B	Toluene	ND (0.047)	ND (0.041)	mg/Kg	Agree
SW8260B	Xylene, Isomers m & p	ND (0.047)	ND (0.041)	mg/Kg	Agree
SW9060	Total Organic Carbon (TOC)	0.1	0.09	PERCENT	Agree
		Primary Soil Sample 02NE88SB036	**QC Soil Sample 02NE88SB236**		**Agree**
AK101	Gasoline Range Organics	170 VHB	88 VHB	mg/Kg	Agree
AK102	Diesel Range Organics	4000 VJ	13000	mg/Kg	Agree
AK103	Residual Range Organics	220	180	mg/Kg	Agree
E160.3M	Total Solids	79.6	91.3	PERCENT	Agree
SIM	Acenaphthene	0.13 VJ	0.25	mg/Kg	Agree
SIM	Acenaphthylene	ND (0.0063)	ND (0.0055)	mg/Kg	Agree
SIM	Anthracene	0.0039 VJ	0.013	mg/Kg	Agree
SIM	Benzo(a)anthracene	0.00021 VJ	0.001 VJ	mg/Kg	Agree *
SIM	Benzo(a)pyrene	ND (0.0063)	ND (0.0055)	mg/Kg	Agree
SIM	Benzo(b)fluoranthene	0.00056 VJ	0.0016 VJ	mg/Kg	Agree
SIM	Benzo(g,h,i)perylene	0.00031 VJ	0.00034 VJ	mg/Kg	Agree
SIM	Benzo(k)fluoranthene	ND (0.0063)	ND (0.0055)	mg/Kg	Agree
SIM	Chrysene	0.0014 VJ	0.0021 VJ	mg/Kg	Agree
SIM	Dibenzo(a,h)anthracene	ND (0.0063)	ND (0.0055)	mg/Kg	Agree
SIM	Fluoranthene	0.00097 VJ	0.0027 VJ	mg/Kg	Agree
SIM	Fluorene	0.38 VJ	0.74	mg/Kg	Agree
SIM	Indeno(1,2,3-cd)pyrene	ND (0.0063)	0.00019 VJ	mg/Kg	Agree
SIM	Naphthalene	6.9 VJ	23	mg/Kg	Agree
SIM	Phenanthrene	0.14 VJ	0.44	mg/Kg	Agree
SIM	Pyrene	0.002 VJ	0.005 VJ	mg/Kg	Agree
SW6020	Chromium	16.7 VJ	9.64	mg/Kg	Agree
SW6020	Lead	21.1 VJ	12.6	mg/Kg	Agree
SW6020	Zinc	57.5 VJ	31.9	mg/Kg	Agree
SW8082	PCB-1016 (Aroclor 1016)	ND (0.13)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1221 (Aroclor 1221)	ND (0.25)	ND (0.22)	mg/Kg	Agree
SW8082	PCB-1232 (Aroclor 1232)	ND (0.13)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1242 (Aroclor 1242)	ND (0.13)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1248 (Aroclor 1248)	ND (0.13)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1254 (Aroclor 1254)	ND (0.13)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1260 (Aroclor 1260)	0.033 VJ	0.059 VJ	mg/Kg	Agree
SW8260B	Benzene	0.062 VJ	0.023	mg/Kg	Agree
SW8260B	Ethylbenzene	2.2 VJ	0.66	mg/Kg	Agree
SW8260B	o-Xylene	1.3 VJ	0.58	mg/Kg	Agree
SW8260B	Toluene	0.041	0.022 VJ	mg/Kg	Agree
SW8260B	Xylene, Isomers m & p	4.4 VJ	1.5	mg/Kg	Agree
SW9060	Total Organic Carbon (TOC)	0.81 VJ	0.48	PERCENT	Agree

Table 5 Summary of Primary and QC Results

Method	Analyte	Primary Soil Sample 02NE88SB039	QC Soil Sample 02NE88SB239	Units	Agreement
		Primary Soil Sample 02NE88SB034	QC Soil Sample 02NE88SB234		Agree
AK101	Gasoline Range Organics	140 VHB	110 VHB	mg/Kg	Agree
AK102	Diesel Range Organics	4300	3100	mg/Kg	Agree
AK103	Residual Range Organics	110 VJ	54 VJ	mg/Kg	Agree
E160.3M	Total Solids	89.3	91.2	PERCENT	Agree
SIM	Acenaphthene	0.11	0.089	mg/Kg	Agree
SIM	Acenaphthylene	ND (0.0056)	ND (0.0055)	mg/Kg	Agree
SIM	Anthracene	0.0041 VJ	0.0033 VJ	mg/Kg	Agree
SIM	Benzo(a)anthracene	0.00043 VJ	0.00021 VJ	mg/Kg	Agree
SIM	Benzo(a)pyrene	0.00025 VJ	ND (0.0055)	mg/Kg	Agree
SIM	Benzo(b)fluoranthene	0.0038 VJ	0.00041 VJ	mg/Kg	Agree
SIM	Benzo(g,h,i)perylene	0.00041 VJ	ND (0.0055)	mg/Kg	Agree
SIM	Benzo(k)fluoranthene	0.0036 VJ	ND (0.0055)	mg/Kg	Agree
SIM	Chrysene	0.0013 VJ	0.00091 VJ	mg/Kg	Agree
SIM	Dibenzo(a,h)anthracene	0.00026 VJ	0.00031 VJ	mg/Kg	Agree
SIM	Fluoranthene	0.001 VJ	0.00079 VJ	mg/Kg	Agree
SIM	Fluorene	0.24	0.2	mg/Kg	Agree
SIM	Indeno(1,2,3-cd)pyrene	0.00034 VJ	ND (0.0055)	mg/Kg	Agree
SIM	Naphthalene	3.6	3.8	mg/Kg	Agree
SIM	Phenanthrene	0.11	0.091	mg/Kg	Agree
SIM	Pyrene	0.0024 VJ	0.0018 VJ	mg/Kg	Agree
SW6020	Chromium	8.31	10.8	mg/Kg	Agree
SW6020	Lead	15	15.3	mg/Kg	Agree
SW6020	Zinc	31.8	40.2	mg/Kg	Agree
SW8082	PCB-1016 (Aroclor 1016)	ND (0.12)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1221 (Aroclor 1221)	ND (0.23)	ND (0.22)	mg/Kg	Agree
SW8082	PCB-1232 (Aroclor 1232)	ND (0.12)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1242 (Aroclor 1242)	ND (0.12)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1248 (Aroclor 1248)	ND (0.12)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1254 (Aroclor 1254)	ND (0.12)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1260 (Aroclor 1260)	ND (0.12)	ND (0.11)	mg/Kg	Agree
SW8260B	Benzene	ND (0.012)	ND (0.012)	mg/Kg	Agree
SW8260B	Ethylbenzene	0.94 VHB	0.83 VHB	mg/Kg	Agree
SW8260B	o-Xylene	0.34 VHB	0.27 VHB	mg/Kg	Agree
SW8260B	Toluene	ND (0.023)	ND (0.025)	mg/Kg	Agree
SW8260B	Xylene, Isomers m & p	3 VHB	2.8 VHB	mg/Kg	Agree
SW9060	Total Organic Carbon (TOC)	0.33 VJ	0.19	PERCENT	Agree
		Primary Soil Sample 02NE88SB006	QC Soil Sample 02NE88SB206		Agree
AK101	Gasoline Range Organics	51	41	mg/Kg	Agree
AK102	Diesel Range Organics	3700	2900	mg/Kg	Agree
AK103	Residual Range Organics	24 VJ	23 VJ	mg/Kg	Agree
D4129	Total Organic Carbon (TOC)	0.16	0.15	PERCENT	Agree
E160.3M	Total Solids	91.7	90.6	PERCENT	Agree
SIM	Acenaphthene	0.15	0.13	mg/Kg	Agree
SIM	Acenaphthylene	ND (0.0055)	ND (0.0056)	mg/Kg	Agree
SIM	Anthracene	0.034	0.029	mg/Kg	Agree
SIM	Benzo(a)anthracene	0.0011 VJ	0.0011 VJ	mg/Kg	Agree
SIM	Benzo(a)pyrene	ND (0.0055)	ND (0.0056)	mg/Kg	Agree
SIM	Benzo(b)fluoranthene	0.00074 VJ	ND (0.0056)	mg/Kg	Agree
SIM	Benzo(g,h,i)perylene	ND (0.0055)	ND (0.0056)	mg/Kg	Agree
SIM	Benzo(k)fluoranthene	ND (0.0055)	ND (0.0056)	mg/Kg	Agree
SIM	Chrysene	0.0027 VJ	0.0027 VJ	mg/Kg	Agree
SIM	Dibenzo(a,h)anthracene	ND (0.0055)	ND (0.0056)	mg/Kg	Agree
SIM	Fluoranthene	0.0041 VJ	0.004 VJ	mg/Kg	Agree

Table 5 Summary of Primary and QC Results

Method	Analyte	Primary Soil Sample 02NE88SB039	QC Soil Sample 02NE88SB239	Units	Agreement
SIM	Fluorene	0.36	0.33	mg/Kg	Agree
SIM	Indeno(1,2,3-cd)pyrene	ND (0.0055)	ND (0.0056)	mg/Kg	Agree
SIM	Naphthalene	1.5	1	mg/Kg	Agree
SIM	Phenanthrene	0.46	0.43	mg/Kg	Agree
SIM	Pyrene	0.011	0.01	mg/Kg	Agree
SW6020	Chromium	13.1	10.8	mg/Kg	Agree
SW6020	Lead	26.2 VJ	61.1	mg/Kg	Agree
SW6020	Zinc	52.8	55.9	mg/Kg	Agree
SW8082	PCB-1016 (Aroclor 1016)	ND (0.11)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1221 (Aroclor 1221)	ND (0.22)	ND (0.22)	mg/Kg	Agree
SW8082	PCB-1232 (Aroclor 1232)	ND (0.11)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1242 (Aroclor 1242)	ND (0.11)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1248 (Aroclor 1248)	ND (0.11)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1254 (Aroclor 1254)	ND (0.11)	ND (0.11)	mg/Kg	Agree
SW8082	PCB-1260 (Aroclor 1260)	ND (0.11)	ND (0.11)	mg/Kg	Agree
SW8260B	Benzene	ND (0.021)	ND (0.021)	mg/Kg	Agree
SW8260B	Ethylbenzene	0.34 VJ	0.092	mg/Kg	Agree
SW8260B	o-Xylene	ND (0.051)	ND (0.053)	mg/Kg	Agree
SW8260B	Toluene	ND (0.051)	ND (0.053)	mg/Kg	Agree
SW8260B	Xylene, Isomers m & p	0.31 VJ	0.094	mg/Kg	Agree
		Primary Water Sample 02NE88GW004	**QC Water Sample 02NE88GW204**		**Agreement**
AK101	Gasoline Range Organics	1.2	1.2	mg/L	Agree
AK102	Diesel Range Organics	72	56	mg/L	Agree
AK103	Residual Range Organics	1.9	1.3	mg/L	Agree
E300.0	Sulfate	1.4	0.9	mg/L	Agree
E310.1	Alkalinity, Total	258	273	mg/L	Agree
RSK175	Ethane	ND (0.0005)	ND (0.0005)	mg/L	Agree
RSK175	Ethene	ND (0.0015)	ND (0.0015)	mg/L	Agree
RSK175	Methane	1.7	1.8	mg/L	Agree
SW8260B	Benzene	0.03	0.03	mg/L	Agree
SW8260B	Ethylbenzene	0.12	0.12	mg/L	Agree
SW8260B	o-Xylene	0.007	0.0075	mg/L	Agree
SW8260B	Toluene	0.0032	0.0033	mg/L	Agree
SW8260B	Xylene, Isomers m & p	0.085	0.083	mg/L	Agree

Key:
(xxx) - MRL for analyte and sample

* - Sample results not qualified based on disagreement when results were reported between the MRL and MDL.
AK - Alaska Method
E - Environmental Protection Agency Method
MDL - method detection limit
mg/Kg - milligrams per kilogram
mg/L - milligrams per liter
MRL - method reporting limit
ND - not detected
SW - Solid Waste Method
VJ - estimated value

Table 6

Agreement Criteria

Matrix	Parameter	Disagreement	Major Disagreement
All	All	>5x difference when one result is < MDL	>10x difference when one result is <MDL
All	All	>3x difference when one result is <RL	>5x difference when one result is <RL
Water	All	>2x difference	>3x difference
Soil	All except metals, VOC, BTEX,GRO	>4x difference	>5x difference
Soil	Metals	>2x difference	>3x difference
Soil	VOC, BTEX,GRO	Arbitrary(suggest >5x difference)	Arbitrary(suggest >10X difference)

Table 7 Summary of Surrogates Outside of Acceptance Limits

Sample ID	Method	Surrogate	Analtye	Result	MRL	Units	Limits	Dilution	Qualifier
02NE88SB007	AK103	n-triacontane		194		percent	50-150	10	- -
	SIM	Fluorene-d10		110		percent	43 -98	1	
			Acenaphthene	0.29	0.034	mg/Kg			VHB
			Anthracene	0.026	0.034	mg/Kg			VHB
			Benzo(b)fluoranthene	0.0044	0.034	mg/Kg			VHB
			Benzo(g,h,i)perylene	0.00094	0.034	mg/Kg			VHB
			Chrysene	0.0033	0.034	mg/Kg			VHB
			Fluoranthene	0.0042	0.034	mg/Kg			VHB
			Fluorene	0.8	0.034	mg/Kg			VHB
			Naphthalene	5.9	0.034	mg/Kg			VHB
			Phenanthrene	0.59	0.034	mg/Kg			VHB
			Pyrene	0.01	0.034	mg/Kg			VHB
02NE88SB008	AK101	4-Bromofluorobenzene		152		percent	50 -150	1	
			Gasoline Range Organics	54	3.5	mg/Kg			VHB
02NE88SB011	AK101	4-Bromofluorobenzene		247		percent	50 -150	1	
			Gasoline Range Organics	130	3.3	mg/Kg			VHB
02NE88SB012	AK101	4-Bromofluorobenzene		202		percent	50 -150	1	
			Gasoline Range Organics	83	3	mg/Kg			VHB
02NE88SB013	AK101	4-Bromofluorobenzene		284		percent	50 -150	1	
			Gasoline Range Organics	140	2.9	mg/Kg			VHB
02NE88SB014	AK101	4-Bromofluorobenzene		270		percent	50 -150	1	
			Gasoline Range Organics	130	2.4	mg/Kg			VHB
02NE88SB015	AK101	4-Bromofluorobenzene		187		percent	50 -150	1	
			Gasoline Range Organics	68	4.5	mg/Kg			VHB
02NE88SB016	AK101	4-Bromofluorobenzene		164		percent	50 -150	1	
			Gasoline Range Organics	73	4.7	mg/Kg			VHB
02NE88SB021	AK101	4-Bromofluorobenzene		49		percent	50 -150	1	
			Gasoline Range Organics	70	9	mg/Kg			VLB
	AK103	n-triacontane		169		percent	50 -150		
02NE88SB022	AK101	4-Bromofluorobenzene		48		percent	50 -150	1	
			Gasoline Range Organics	99	8.1	mg/Kg			VLB
	AK102	o-Terphenyl		202		percent	50-150	10	- -
	AK103	n-triacontane		194		percent	50-150	10	- -
	SIM	Fluorene-d10		149		percent	43 -98	1	
			Acenaphthene	2.6	0.14	mg/Kg			VHB
			Anthracene	0.3	0.14	mg/Kg			VHB
			Benzo(a)anthracene	0.006	0.14	mg/Kg			VHB
			Benzo(b)fluoranthene	0.016	0.14	mg/Kg			VHB
			Fluoranthene	0.048	0.14	mg/Kg			VHB
			Fluorene	6.9	0.14	mg/Kg			VHB
			Naphthalene	81	2.7	mg/Kg		10	- -
			Phenanthrene	5.5	0.14	mg/Kg			VHB
			Pyrene	0.12	0.14	mg/Kg			VHB *
02NE88SB027	AK101	4-Bromofluorobenzene		279		percent	50 -150	1	
			Gasoline Range Organics	220	5.4	mg/Kg			VHB
	SIM	Fluorene-d10		135		percent	43 -98	5	
			Acenaphthene	1.3	0.031	mg/Kg			VHB
			Anthracene	0.12	0.031	mg/Kg			VHB
			Benzo(a)anthracene	0.012	0.031	mg/Kg			VHB
			Benzo(a)pyrene	0.0032	0.031	mg/Kg			VHB
			Benzo(b)fluoranthene	0.007	0.031	mg/Kg			VHB
			Benzo(g,h,i)perylene	0.0016	0.031	mg/Kg			VHB
			Benzo(k)fluoranthene	0.0033	0.031	mg/Kg			VHB
			Chrysene	0.024	0.031	mg/Kg			VHB
			Fluoranthene	0.033	0.031	mg/Kg			VHB
			Fluorene	3.9	0.031	mg/Kg			VHB
			Indeno(1,2,3-cd)pyrene	0.0018	0.031	mg/Kg			VHB
			Naphthalene	79	3.1	mg/Kg			VHB
			Phenanthrene	2.7	0.031	mg/Kg			VHB
			Pyrene	0.06	0.031	mg/Kg			VHB
02NE88SB031	AK101	4-Bromofluorobenzene		195		percent	50 -150	1	
			Gasoline Range Organics	110	4	mg/Kg			VHB
	SIM	Fluorene-d10		156		percent	43-98	10	- -
02NE88SB032	AK101	4-Bromofluorobenzene		166		percent	50 -150	1	
			Gasoline Range Organics	60	4.5	mg/Kg			VHB
	SIM	Fluoranthene-d10		38		percent	52 -108	1	
		Fluorene-d10		39		percent	43 -98	1	
		Terphenyl-d14		40		percent	61 -122	1	
			Acenaphthene	0.11	0.0054	mg/Kg			VLB
			Acenaphthylene	ND	0.0054	mg/Kg			VQQ
			Anthracene	0.011	0.0054	mg/Kg			VLB
			Benzo(a)anthracene	0.00037	0.0054	mg/Kg			VLB
			Benzo(a)pyrene	ND	0.0054	mg/Kg			VQQ

Table 7 Summary of Surrogates Outside of Acceptance Limits

Sample ID	Method	Surrogate	Analtye	Result	MRL	Units	Limits	Dilution	Qualifier
02NE88SB032	SIM		Benzo(b)fluoranthene	0.00042	0.0054	mg/Kg			VLB
			Benzo(g,h,i)perylene	ND	0.0054	mg/Kg			VQQ
			Benzo(k)fluoranthene	ND	0.0054	mg/Kg			VQQ
			Chrysene	0.00094	0.0054	mg/Kg			VLB
			Dibenzo(a,h)anthracene	ND	0.0054	mg/Kg			VQQ
			Fluoranthene	0.0017	0.0054	mg/Kg			VLB
			Fluorene	0.47	0.0054	mg/Kg			VLB
			Indeno(1,2,3-cd)pyrene	ND	0.0054	mg/Kg			VQQ
			Naphthalene	0.9	0.0054	mg/Kg			VLB
			Phenanthrene	0.27	0.0054	mg/Kg			VLB
			Pyrene	0.0035	0.0054	mg/Kg			VLB
02NE88SB033	AK101	4-Bromofluorobenzene		213		percent	50 -150	1	
			Gasoline Range Organics	130	2.6	mg/Kg			VHB
	SW8260B	4-Bromofluorobenzene		160		percent	40 -153	1	
			Ethylbenzene	1.2	0.021	mg/Kg			VHB
			Toluene	0.05	0.021	mg/Kg			VHB
			Xylene, Isomers m & p	4	0.022	mg/Kg			VHB
			o-Xylene	1.5	0.021	mg/Kg			VHB
02NE88SB034	AK101	4-Bromofluorobenzene		251		percent	50 -150	1	
			Gasoline Range Organics	140	3	mg/Kg			VHB
	SW8260B	4-Bromofluorobenzene		221		percent	40 -153	1	
			Ethylbenzene	0.94	0.023	mg/Kg			VHB
			Xylene, Isomers m & p	3	0.023	mg/Kg			VHB
			o-Xylene	0.34	0.023	mg/Kg			VHB
02NE88SB234	AK101	4-Bromofluorobenzene		247		percent	50 -150	1	
			Gasoline Range Organics	110	2.3	mg/Kg			VHB
	SW8260B	4-Bromofluorobenzene		225		percent	40 -153	1	
			Ethylbenzene	0.83	0.025	mg/Kg			VHB
			Xylene, Isomers m & p	2.8	0.025	mg/Kg			VHB
			o-Xylene	0.27	0.025	mg/Kg			VHB
02NE88SB035	AK101	4-Bromofluorobenzene		243		percent	50 -150	1	
			Gasoline Range Organics	100	2.5	mg/Kg			VHB
	SW8260B	4-Bromofluorobenzene		222		percent	40 -153	1	
			Benzene	0.018	0.012	mg/Kg			VHB
			Ethylbenzene	1.1	0.025	mg/Kg			VHB
			Toluene	0.018	0.025	mg/Kg			VHB
			Xylene, Isomers m & p	0.95	0.025	mg/Kg			VHB
			o-Xylene	0.019	0.025	mg/Kg			VHB
02NE88SB036	AK101	4-Bromofluorobenzene		173		percent	50 -150	1	
			Gasoline Range Organics	170	3.3	mg/Kg			VHB
02NE88SB236	AK101	4-Bromofluorobenzene		161		percent	50 -150	1	
			Gasoline Range Organics	88	2.5	mg/Kg			VHB
02NE88SB037	AK101	4-Bromofluorobenzene		157		percent	50 -150	1	
			Gasoline Range Organics	ND	4.1	mg/Kg			-
02NE88SB237	AK101	4-Bromofluorobenzene		167		percent	50 -150	1	
			Gasoline Range Organics	ND	4	mg/Kg			-

Key

- - results not qualified when surrogate above criteria and sample did not contain detectable amount of analyte.
- - - results not qualified when dilution is greater than 5.
* - Result reported between the MRL and MDL. The final qualifier is VJ.

MDL - method detection limit
mg/Kg - milligram per kilogram
MRL - method reporting limit
ND - not detected
VHB - Result estimated with a high bias
VJ - Result estimated
VLB - Result estimated with a low bias

APPENDIX G

USACE Trip Report – Biological Sampling

MWH

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, ALASKA
P.O. BOX 898
ANCHORAGE, ALASKA 99506-0898

REPLY TO
ATTENTION OF:

CEPOA-EN-CW-ER (1105-2-10b)

MEMORANDUM FOR RECORD: Final Draft printed, 6 September 2001.

SUBJECT: Northeast Cape, Saint Lawrence Island fish data collection report, August 18 through August 22, 2001.

Introduction

A formally used defense site (FUDS) is located near the Northeast Cape of Saint Lawrence Island, Alaska. The site was abandoned in 1972 and a clean up of the facility is currently underway. Fuel spills were known to exist during the facility's operation and contamination from the spills and other sources may have contaminated fish resources in the Suqitughneq River drainage that originates at the site. The purpose of this field effort was to collect fish samples for human-risk analysis in accordance with the biological sampling plan (BSP). Anadromous Dolly Varden (*Salvelinus malma*), pink salmon (*Onchorhynchus gorbuscha*) and Alaska blackfish (*Dallia pectoralis*) were the target species.

Survey Location

Locations of capture attempts were the Suqitughneq River, Tapisaghak River and the outlet of the Seepanpak Lagoon, Northeast Cape, Saint Lawrence Island, Alaska. The latitude and longitude of each data collection point is listed.

Schedule

The data collection took place between 17 August and 22 August, 2001.

Methods

Dolly Varden and Alaska blackfish were captured in baited hoop nets and minnow traps, and with gillnets. The traps were baited with salmon eggs preserved with a mixture of laundry borax, non-iodized table salt, sugar, and strawberry flavored jello. The salmon eggs used to bait the hoop nets were placed in a container designed to release scent and the fish captured in the hoop nets were not directly exposed to the bait. The blackfish captured in the minnow traps were directly exposed to the bait and could have ingested it while in the traps. Traps were soaked for approximately 24 hours.

Capture with sport gear was attempted, but no fish were caught with sport tackle.

Results and Discussion

Dolly Varden and Alaska blackfish were caught as in the below table (Table 1). Only the fish listed in table 2 were retained. All others were released.

Table C–1 Target Species Caught During the Survey

Date	Location	Trap #	N Lat.	W Lon.	Gear	Dolly Varden		Blackfish		Pink Salmon
						Num	mm	Num	mm	Num
18 Aug 01	*Suqi River*	*1*	*63 18 45.0*	*168 56 38.2*	*HN*	*23*	*118-208*	*0*		
	Suqi River	*2*	*63 18 50.6*	*168 56 59.9*	*HN*	*2*	*146-207*	*0*		
	Suqi River	*3*	*63 18 52.9*	*168 56 59.9*	*HN*	*1*	*232*	*0*		
	Suqi River	*4*	*63 19 21.0*	*168 58 26.8*	*HN*	*0*		*0*		
	Suqi Lagoon	*5*	*63 19 36.4*	*168 57 54.4*	*HN*	*0*		*0*		
	Suqi Lagoon	*6*	*63 20 03.6*	*168 56 45.6*	*HN*	*0*		*0*		
	Suqi Ditch	*1*	*63 18 40.5*	*168 57 42.0*	*MT*	*0*		*0*		
	Suqi Ditch	*2*	*63 18 41.4*	*168 57 46.0*	MT	*0*		*0*		
	Suqi Ditch	*3*	*63 18 42.6*	*168 57 50.2*	MT			*0*		
	Suqi Ditch	*4*	*63 18 49.1*	*168 57 46.6*	MT			*3*	*125-137*	
	Suqi Ditch	*5*	*63 18 50.4*	*168 57 45.6*	MT			*6*	*117-210*	
	Suqi Ditch	*6*	*63 18 50.9*	*168 57 45.9*	MT	*0*		*3*	*118-134*	
19 Aug 01	*Suqi River*	*1-A*	*63 18 46.1*	*168 56 41.6*	HN	*15*	*82-174*	*1*	*62*	
	Suqi River	*2-A*	*63 18 50.3*	*168 57 02.4*	HN	*28*	*98-285*	*0*		
	Suqi River	*3-A*	*63 18 52.9*	*168 57 32.5*	HN	*0*		*0*		
	Suqi Lagoon	*5-A*	*63 19 36.4*	*168 57 54.4*	*HN*	*1*	*153*	*0*		
	Suqi Lagoon	*6-A*	*63 20 03.6*	*168 56 45.6*	*HN*	*0*		*0*		
	Suqi Lagoon	*7*	*63 20 01.4*	*168 56 50.2*	*HN*	*0*		*0*		
	Suqi Ditch	*1-a*	*63 18 42.6*	*168 57 50.2*	MT	*0*		*0*		
	Suqi Ditch	*2-a*	*63 18 42.6*	*168 57 50.2*	MT	*0*		*0*		

Table C–1 (cont.) Target Species Caught During the Survey

Date	Location	Trap #	N Lat.	W Lon.	Gear	Dolly Varden		Blackfish		Pink Salmon
						Num	mm	Num	mm	Num
	Suqi Ditch	*3-a*	*63 18 49.1*	*168 57 46.6*	MT	*0*		*0*		
	Suqi Ditch	*4_a*	*63 18 49.1*	*168 57 46.6*	MT	*0*		*2*	*110-125*	
	Suqi Ditch	*5-a*	*63 18 50.4*	*168 57 45.6*	MT	*0*		*11*	*107-152*	
	Suqi Ditch	*6-a*	*63 18 50.9*	*168 57 45.9*	MT	*0*				
20 Aug 01	*Suqi River*	*1-B*	*63 18 45.0*	*168 56 38.2*	*HN*	*51*	*82-218*	*0*		
	Suqi River	*2-B*	*63 18 50.3*	*168 57 02.4*	HN	*21*	*87-222*	*0*		
	Suqi River	*3-B*	*63 18 53.3*	*168 57 25.8*	*HN*	*4*	*190-306*	*0*		
	Tap River	*4-B*	*63 18 57.7*	*168 50 51.7*	HN	*0*		*0*		
	Tap River	*5_b*	*63 18 57.7*	*168 50 51.7*	HN	*0*		*0*		
	Tap River	*6-B*	*63 18 52.0*	*168 51 174.9*	HN	*0*		*0*		
	Suqi Ditch	*1-b*	*63 18 53.4*	*168 57 44.1*	*MT*	*3*	*137-155*	*16*	*82-150*	
	Suqi Ditch	*2-b*	*63 18 53.4*	*168 57 44.1*	*MT*					
	Suqi Ditch	*3-b*	*63 18 53.4*	*168 57 44.1*	*MT*					
	Suqi Ditch	*4-b*	*63 18 53.4*	*168 57 44.1*	*MT*					
	Suqi Ditch	*5-b*	*63 18 53.4*	*168 57 44.1*	*MT*					
	Suqi Ditch	*6-b*	*63 18 53.4*	*168 57 44.1*	*MT*					
	Suqi Lagoon	*1*	*63 19 35.7*	*168 57 51.4*	*GN*	*3*	*455-480*			
	Tap Lagoon	*1*	*63 18 59.5*	*168 50 49.0*	*GN*	*0*		*0*		*4*
21 Aug 01	*Suqi River*	*3-C*	*63 18 53.3*	*168 57 25.8*	*HN*	*0*		*0*		
	Suqi River	*8-C*	*63 18 52.4*	*168 57 21.5*	*HN*	*2*	*124-213*	*2*	*132-148*	
	Suqi Lagoon	*1*	*63 19*	*168 57 51.4*	*GN*	*8*	*415-*	*0*		

Table C–1 (cont.) Target Species Caught During the Survey

Date	Location	Trap #	N Lat.	W Lon.	Gear	Dolly Varden		Blackfish		Pink Salmon
						Num	mm	Num	mm	Num
			35.7				*477*			
	Tap Lagoon	*1*	*63 18 59.5*	*168 50 49.0*	*GN*	*4*	*420-464*	*0*		*3*
	Seep Lagoon	*1*	*63 20 42.7*	*169 16 12.1*	*GN*	*0*		*0*		*1*
22 Aug 01	*Suqi Lagoon*	*1*	*63 19 35.7*	*168 57 51.4*	*GN*	*8*	*420-520*	*0*		*0*

Suqi = Refers to locations within the Suqitughneq River drainage.

Tap Lagoon = Tapisaghak River Lagoon.

Seep Lagoon = Seepanpak Lagoon

Table C–2 Fish from Table 1 that were Retained for Analysis (all others in Table 1 were released).

Date	Location	Dolly Varden		Blackfish		Pink Salmon	
		Length [a]	Wt. (g)	Length [a]	Wt. (g)[b]	Length [a]	Wt. (g)
18 Aug	*Suqi River*			*125*			
	Suqi River			*137*			
	Suqi River			*210*			
	Suqi River			*135*			
	Suqi River			*138*			
	Suqi River			*139*	*415*		
	Suqi River			*122*			
	Suqi River			*117*			
	Suqi River			*134*			
	Suqi River			*128*			
	Suqi River			*118*			
19 Aug	Suqi River	*285*	*200*	*125*			
	Suqi River	*254*	*170*	*110*			
	Suqi River	*208*	*80*	*138*			
	Suqi River	*240*	*125*	*140*			
	Suqi River	*218*	*100*	*122*			
	Suqi River	*215*	*90*	*131*			
	Suqi River			*125*	*280*		
	Suqi River			*152*			
	Suqi River			*110*			
	Suqi River			*125*			
	Suqi River			*45*			
	Suqi River			*107*			
	Suqi River			*145*			
20 Aug	Suqi River	*306*	*300*	*128*		*470*	*980*
	Suqi River	*455*	*800*	*12*		*445*	*880*
	Suqi River	*470*	*1100*	*119*		*463*	*1140*
	Suqi River	*480*	*1090*	*124*			
	Suqi River			*128*			
	Suqi River			*110*			
	Suqi River			*117*			
	Suqi River			*133*			
	Suqi River			*129*	*660*		
	Suqi River			*102*			
	Suqi River			*142*			
	Suqi River			*118*			
	Suqi River			*140*			
	Suqi River			*128*			
	Suqi River			*122*			
	Suqi River			*120*			

Table C–2 (cont.) Fish from Table 1 that were Retained for Analysis (all others in Table 1 were released).

Date	Location	Dolly Varden		Blackfish		Pink Salmon	
		Length [a]	Wt. (g)	Length [a]	Wt. (g)[b]	Length [a]	Wt. (g)
	Suqi River			124			
	Suqi River			112			
	Suqi River			116			
	Suqi River			135			
	Suqi River			135			
	Suqi River			128			
	Suqi River			135			
	Suqi River			112			
	Suqi River			150	660		
	Suqi River			125			
	Suqi River			138			
	Suqi River			135			
	Suqi River			110			
	Suqi River			119			
	Suqi River			108			
	Suqi River			82			
21 Aug	Suqi River	455	980				
	Suqi River	505	1220				
	Suqi River	450	930				
	Suqi River	415	640				
	Suqi River	445	780				
	Suqi River	477	950				
	Suqi River	448	900				
	Suqi River	420	740				
	Tap River	465	980				
	Tap River	460	860				
	Tap River	490	1240				
22 Aug	Suqi River	450	860				
	Suqi River	440	900				
	Suqi River	420	780				
	Suqi River	480	1090				
	Suqi River	520	1320				
	Suqi River	445	830				
	Suqi River	430	680				
	Suqi River	480	1170				

a. Length is from tip of snout to fork of tail in millimeters for comparison between species (a statistical, mid-eye-to-fork-of-tail measurement was also taken, but not reported).

b. Composite live weight.

Table C–3 Summary of Sample Goals

Drainage	Dolly Varden		Blackfish		Pink Salmon	
	Goal	Retained	Goal	Retained	Goal	Retained
Suqi River	*10*	*10*	*300 grams*[a]	*1,355 grams*[a]	*2*	*0*
Tap River	*6*	*3*	*0*	*0*	*2*	*3*
Additional Suqi River Samples	*9*	*9*	*0*	*0*	*0*	*0*
Suqi River Resident Fish Samples	*0*	*8*	*N/A*	*N/A*	*N/A*	*N/A*
Total	**25**	**30**	**300**	**1,355**	**4**	**3**

a – Live weight.

Note: Anadromous Dolly Varden of subsistence harvest size was preferred for analysis. Resident fish were retained for possible contaminant comparison.

The BSP called for sample weights of heads, filets, and roe of 100 grams from anadromous Dolly Varden of a size (approximately 7 + inches) that might typically be retained for human consumption. Recommended sample sizes and weights of Dolly Varden and Alaska blackfish from the Suqitughneq River were met, but the background sample size from the Tapisaghak River was short by three fish.

There is no known discharge data available from the Tapisaghak River, but during this survey it was approximately 30 feet wide and one foot deep when it is contained in one channel. The river appeared to be at normal stage and the water was exceptionally clear. The mouths of all lagoons at Northeast Cape, except perhaps the Seepanpak Lagoon, appear to berm with surf-deposited, sand and gravel during periods of brisk northerly winds. The Seepanpak Lagoon is reported to berm over, but it was open during our visits. The Tapisaghak River and Suqitughneq River lagoons were bermed during the survey, and it was not possible for fresh fish to enter the lagoons from the Bering Sea. Prior to the breaching of the Tapisaghak River berm, only one pink salmon was seen in the lagoon during several visits when we attempted to capture fish with hoop nets and sport tackle. We caught late-run pink salmon and Dolly Varden in the lower lagoon with a gillnet after the berm was breached and fresh fish entered the lagoon, but because of time and weather, only one gillnet set was possible after the berm was breached.

The Tapisaghak River (3.8 miles east of the Suqitughneq River) appears to support a reasonable sized run of pink salmon judged by the few hundred pink salmon estimated spawning up to about 3 miles upstream from the lagoon. The river is braided in places and shows definite signs of scouring, but it is probable that during an even-numbered year, even more pink salmon would spawn in this stream. Pink salmon are of questionable value for this study because of their short resident time in freshwater as fry, but three adult pink salmon were retained as possible background samples. Three sockeye salmon were also seen a few miles upstream in the Tapisaghak River, but they were considered strays to the drainage.

The Suqitughneq River normally lacks the discharge to breach the berm during northerly winds, and probably has never been able to support viable spawning runs of pink salmon because of it. Unlike in the Tapisaghak River where anadromous Dolly Varden that entered prior to berming had already moved upstream, anadromous Dolly Varden in the Suqitughneq River lagoon had not moved upstream and they were susceptible to the gillnet set in the lagoon.

The Suqitughneq River also supports a stock of resident Dolly Varden that do not appear to migrate to sea. These fish were noted to be sexually mature starting at about 6 inches in length. Resident fish might be expected to have higher contaminant levels present than the anadromous fish because of their continuous residence in the affected drainage. Resident fish from the Suqitughneq River were retained because: 1) we were not catching any anadromous fish during the first few field days and could not guarantee filling the sample goal with anadromous fish, and 2) they spend their lives in the Suqitughneq River, and could possibly be used to help fingerprint any specific Suqitughneq River contaminants that might be found in the anadromous fish.

The mouth of the Seepanpak Lagoon, 9.4 miles west of the Suqitughneq River mouth, was visited on several occasions in an attempt to collect background samples of anadromous Dolly Varden in the event collection attempts at the Tapisaghak River failed. We were informed by the local Natives that, similar to the other streams in the area, the run of anadromous Dolly Varden in the Seepanpak Lagoon drainages was several weeks past peak, but that we may get lucky and catch some late fish. Several angler hours of fishing with sport tackle and one 24 hour set of a 60 foot gillnet produced two strikes from Dolly Varden on sport tackle and the capture of one pink salmon and a large warty sculpin (Myoxocephalus verrucosus) in the gill net. According to the local Natives, late July through the first week of August is the best times to catch anadromous salmon and Dolly Varden as they enter the lagoons in this area of Saint Lawrence Island. We appeared to be about two weeks behind the run for this effort, and only low numbers of late-run fish appeared to be entering the rivers once the berms were breached.

A small lake at the head of the Suqitughneq River was visited several times during the survey. This lake appears to be very shallow (no more than about 5 feet deep) with a mud bottom. Although there are reports of fish in the lake, we saw none except the small resident Dolly Varden near the outlet. A flock of several dabbler ducks, possibly pintails, were observed tipping to feed in the center of the lake testifying to its shallowness. Additionally, the water is very clear and the substrate appears to have a uniform, gray appearance with no darker appearing holes when viewed from a higher vantage point. Unless large springs are present, this lake would most likely freeze to the bottom during winter and result in a winterkill of most fish. It is speculated that resident, and perhaps anadromous, Dolly Varden in the Suqitughneq River drainage overwinter in deeper holes and under the abundant cutbanks, or in the lagoon. Alaska blackfish are exceptionally hardy and can overwinter in muddy areas of the drainage with low oxygen concentrations.

A late run of chum salmon reportedly entered the Tapisaghak River and anadromous Dolly Varden were seen upstream in the Suqitughneq River after the COE biologists departed the area on 23 August 2001 (F. Kingeekuk Jr., personal communication to W. O'Connell). The extent of these reported sightings is unknown.

Site Photos



Photo 1. Recovery of a hoop net trap from the Suqitughneq River at Northeast Cape, Saint Lawrence Island, Alaska on 20 August 2001.

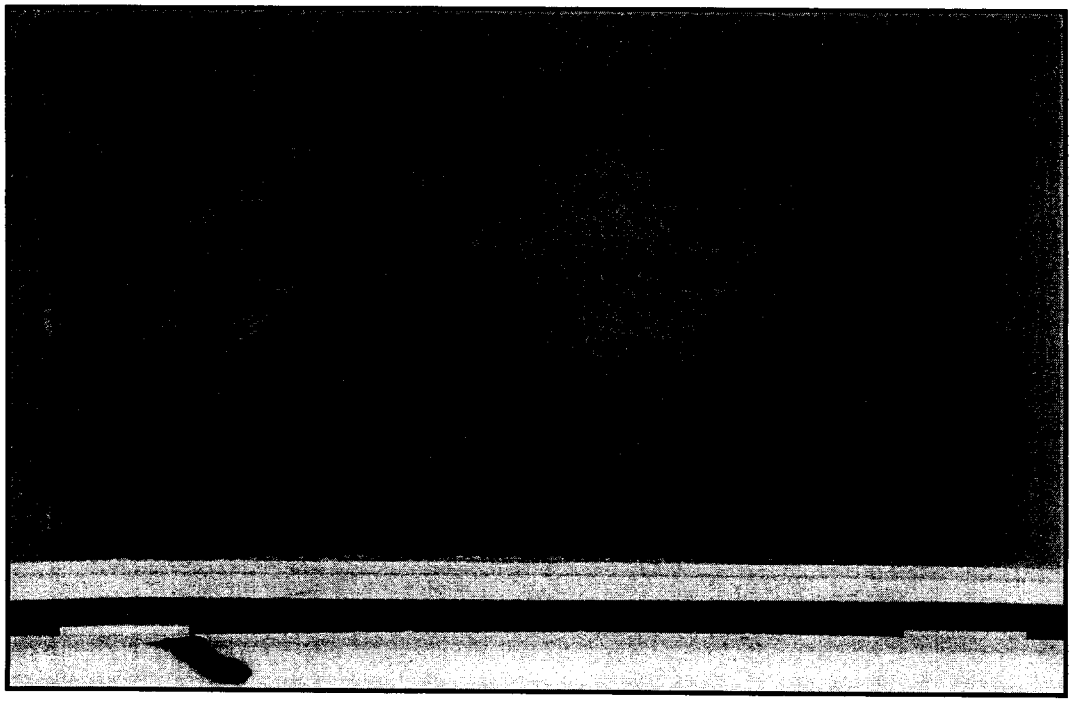


Photo 2. Catch of resident and possibly pre-smolt Dolly Varden from the Suqitughneq River at Northeast Cape, Saint Lawrence Island, Alaska on 20 August 2001 with a baited hoop net trap.

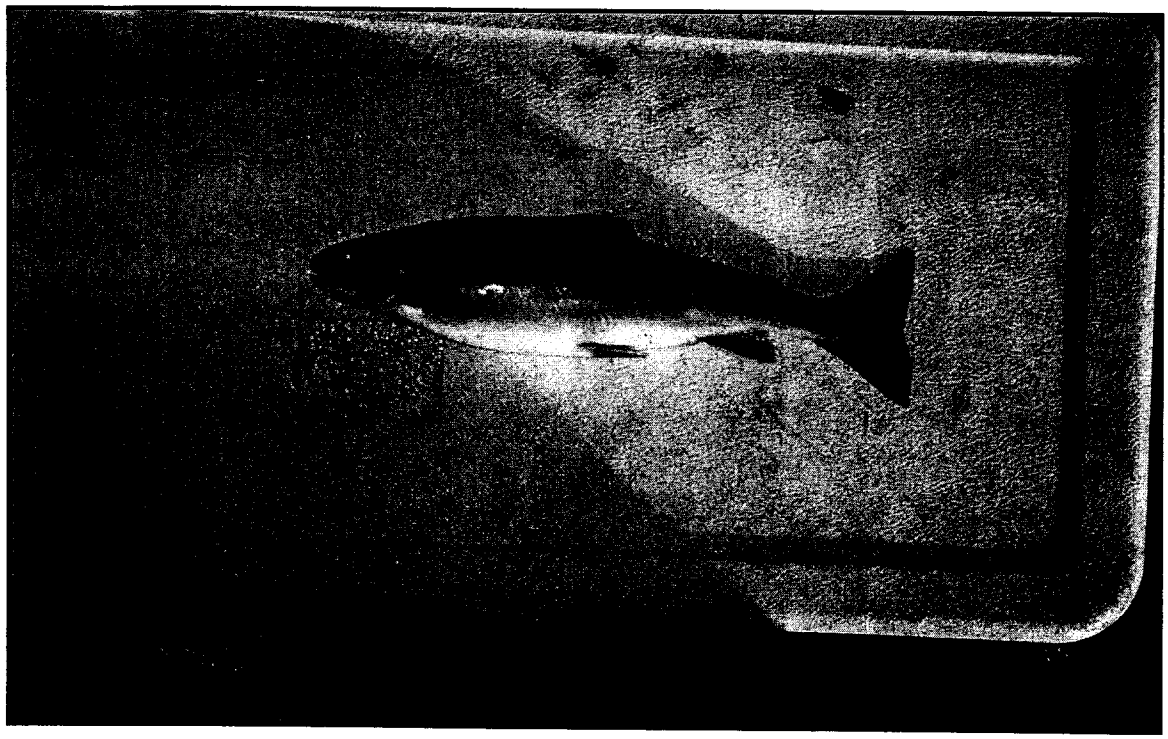


Photo 3. Example of a resident female Dolly Varden (306 mm) in spawning condition from the Suqitughneq River at Northeast Cape, Saint Lawrence Island, Alaska during late August 2001.

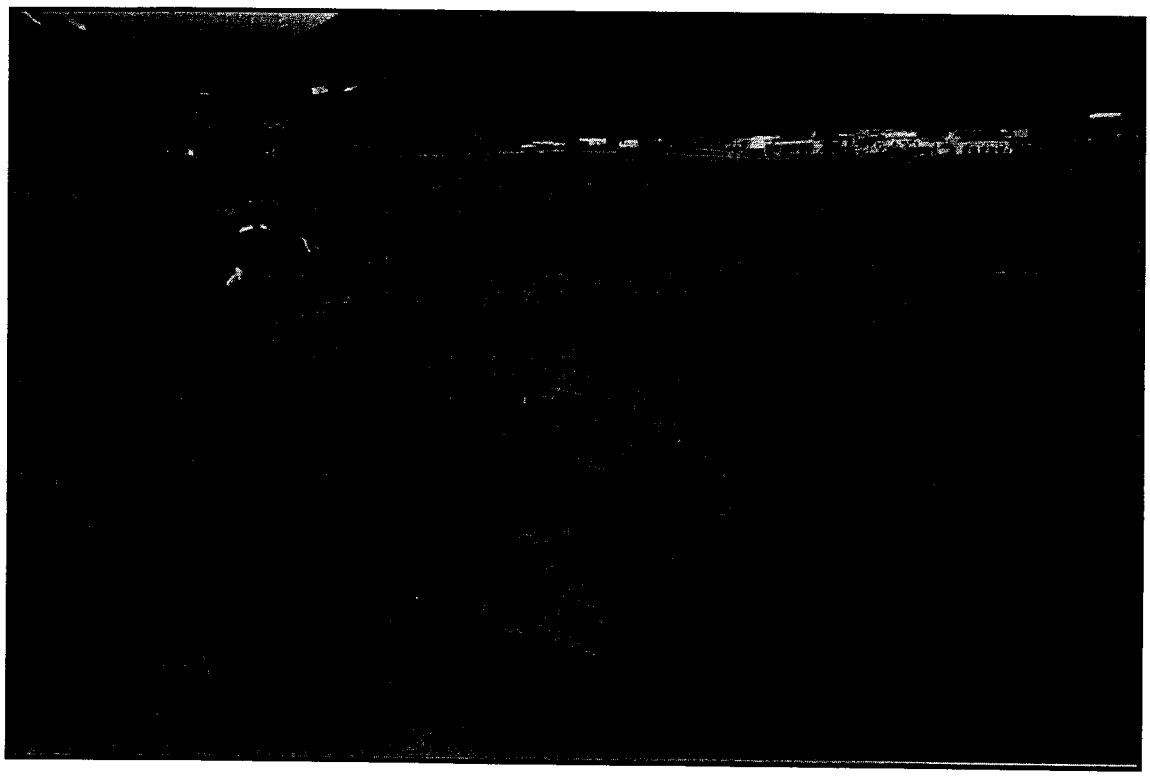


Photo 4. Typical Alaska blackfish habitat in the Suqitughneq River drainage ditch at Northeast Cape, Saint Lawrence Island, Alaska during late August 2001.

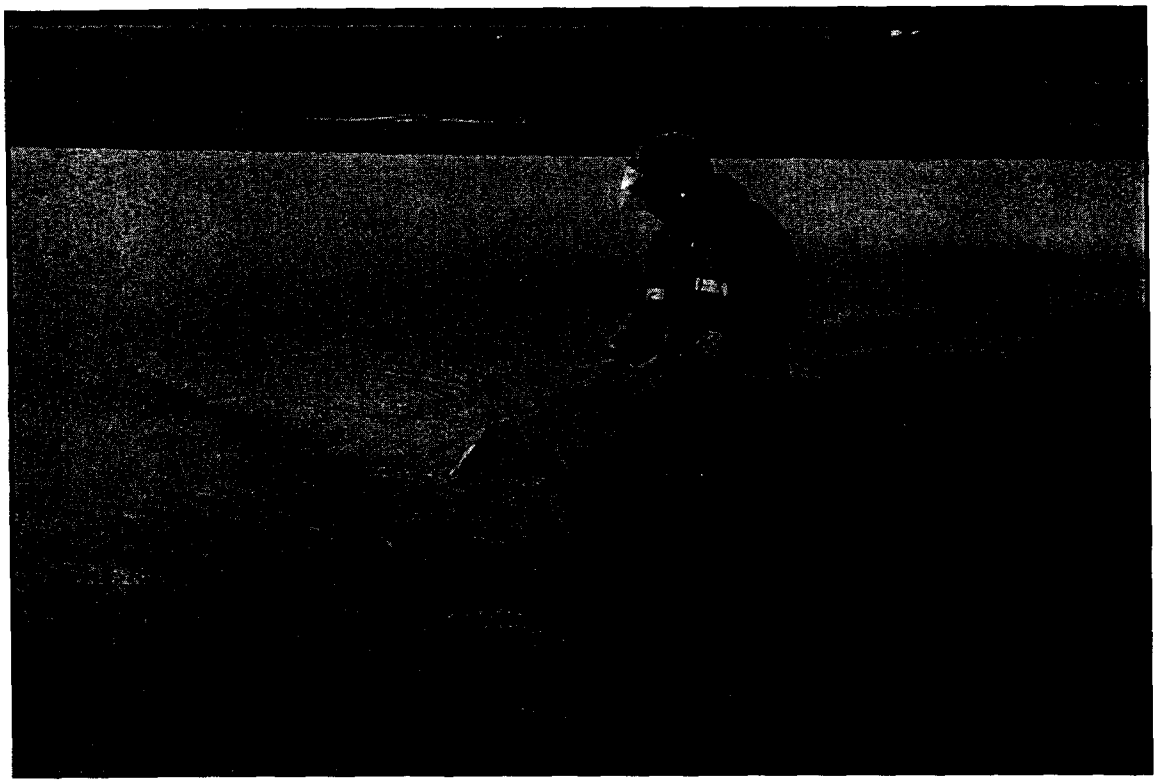


Photo 5. Recovery of a Dolly Varden from a gillnet in the Suqitughneq River lagoon at Northeast Cape, Saint Lawrence Island, Alaska on 20 August 2001.

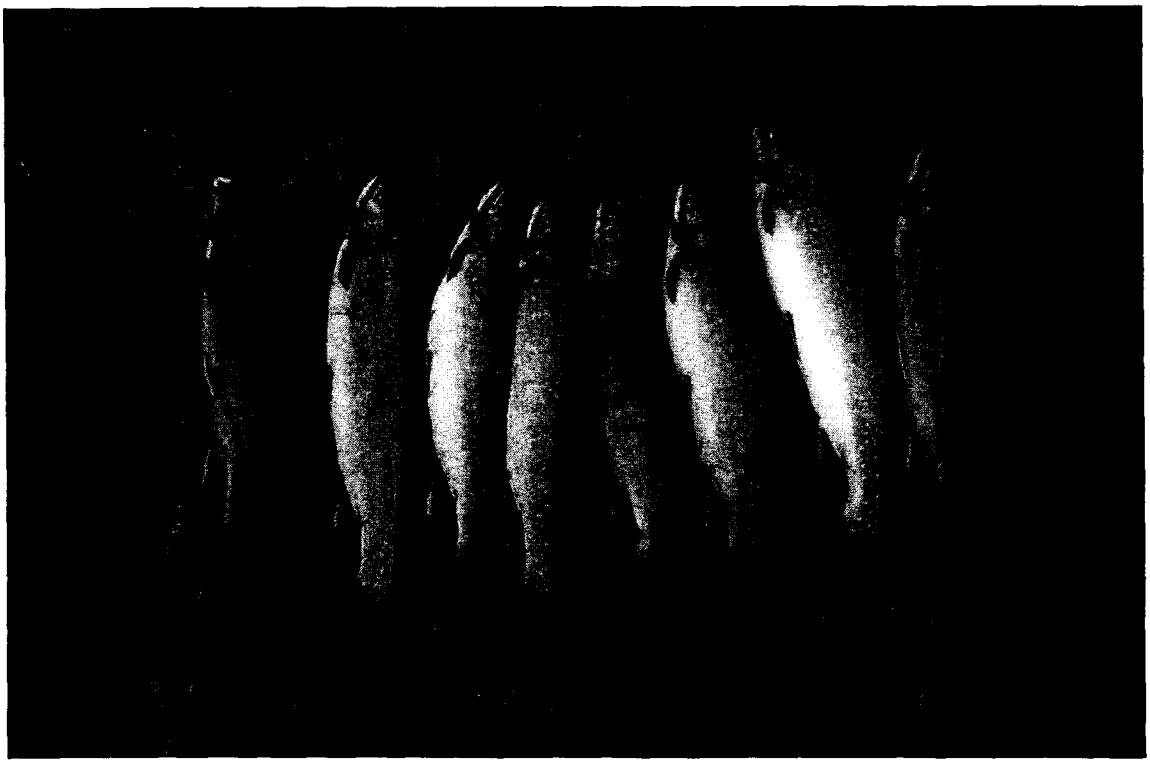


Photo 6. Catch of anadromous Dolly Varden from the Suqitughneq River lagoon at Northeast Cape, Saint Lawrence Island, Alaska on 21 August 2001.

Personnel

The following persons conducted this sampling effort in the field.

Larry Bartlett, Corps of Engineers. Lead biologist.
Chris Hoffman, Corps of Engineers. Assisting biologist.
William O'Connell, Montgomery-Watson-Harza. Fish sample recipient and shipping preparation.
Floyd Kingeekuk Jr. Polar bear watch and local guide.

This Trip Report was written by:

Larry D. Bartlett
General Biologist
En-Cw-Er

And review by:

Chris Hoffman
General Biologist
En-Cw-Er

This trip report is electronically filed in:

G:\\En-Cw\En-Cw-Er\LarryB\NE Cape FUDS\trip report Aug 17-23-01.doc

APPENDIX H

Site Survey Data

MWH

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1203,96064.0541,97382.8438,199.29,01ne31ss123
1204,95983.5198,97544.6757,202.09,01ne31ss107/108
1205,95843.1705,97698.3045,199.36,01ne31ss125
1206,95757.0086,97607.2822,221.28,fal1.5urscp390
1207,95757.0215,97607.2454,221.26,1206fal
1208,99063.6037,97928.1558,71.23,fip1in2033
1209,100691.6822,99373.3382,69.65,fal2060lounsbury
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1212,100717.8871,98992.2785,70.34,1210salgps2
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1215,91048.2373,95519.1271,1715.42,01ne33ss103
1216,101850.5402,93696.6021,22.43,01ne30ss101
```

RECEIVED
SEP 25 2002
MONTGOMERY WATSON HARZA

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.ne

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\Administrator\My Documents\Montgomery-Watson\NorthEast Cape\NECape2002.wpd

Loc ID	East	North	"Elevation, ft. msl" Ground	PVC	
MW 88-1	98080.4499	96392.8914	82.29	81.89	
MW 88-2	98257.8812	96455.0726	71.18	70.88	
MW 88-3	98169.9401	96458.3585	77.75	77.35	
MW 88-4	98365.8078	96331.1320	68.63	68.23	
MW 88-5	98292.1088	96216.7210	68.37	67.87	
MW 88-6	98271.8042	96140.1494	69.13	68.83	
MW 88-7	98271.2457	96033.1581	72.83	72.33	
MW 88-8	98185.9420	96083.4849	73.76	73.46	
MW 88-9	98044.5023	96154.1887	81.79	80.99	
MW 88-10	97970.2989	96293.0099	86.86	86.46	
SB 88-11	98320.2355	96241.8412	66.84		
SB 88-12	98329.8776	96398.0750	69.71		
SB 88-13	98303.2553	96341.1182	69.51		
SB 88-14	98292.8032	96251.2105	67.11		
SB 88-15	98224.4465	96253.7354	71.21		
SB 88-16	98182.7094	96260.0342	72.95		
SB 88-17	98270.0480	96171.5812	69.65		
SB 88-18	98228.2467	96070.5355	71.93		
SB 22-1	97683.0309	96206.4925	97.75		
SB 22-2	97685.3823	96233.7486	98.14		

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741,98292.1088,96216.7210,68.37,ground 88-5
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
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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
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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
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3224,98303.2553,96341.1182,69.51,88-13
3225,98329.8776,96398.0750,69.71,88-12
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3236,97909.4993,96375.6140,89.46,se bldg cor
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3501,99641.3824,97547.3059,45.82,fsp708
3506,97970.3921,96289.2790,86.86,rb rp to 88-10

APPENDIX I

Geotechnical Lab Test Report

MWH

LETTER OF TRANSMITTAL

R&M

R&M CONSULTANTS, INC.

9101 VANGUARD DRIVE
ANCHORAGE, ALASKA 99507
TEL: (907) 522-1707
FAX: (907) 522-3403

RECE

MONTGOMERY WATSON HARZA

DATE 11-7-2002

PROJECT NO. 251177

RE: PERMEABILITY TESTS

TO
MONTGOMERY WATSON HARZA
4100 SPENARD ROAD
ANCHORAGE, AK 99517

ATTENTION JOHANNA DREHER

WE ARE SENDING YOU:

X Attached
_ Under separate cover via _____

The following items:

_ Shop Drawings _ Prints
_ Plans _ Samples
_ Specifications _ Copy of letter
_ Change order
_ Other _____

NO.	DATE	COPIES	DESCRIPTION
	11-7-02		FINAL RESULTS OF PERMEABILITY TESTS - NE CAPE (25 PAGES)

THESE ARE TRANSMITTED as checked below:

_ For approval
X For your use
X As requested
_ For review and comment
_ FOR BIDS DUE _____

_ Approved as submitted
_ Approved as noted
_ Returned for corrections
_

_ Resubmit _____ copies for approval
_ Submit _____ copies for distribution
_ Return _____ corrected prints

_ PRINTS RETURNED AFTER LOAN TO US

REMARKS _____

COPY TO DAVE JOHNSON

SIGNED: Richard A. Kienel

If enclosures are not as noted, kindly notify us at once.

LABORATORY TEST REPORT

R&M CONSULTANTS, INC. 9101 VANGUARD DR. ANCHORAGE, ALASKA 99507 PH 907-522-1707

CLIENT: **MWH** R&M PROJECT: **251177**

PROJECT: **NE Cape**

CLIENT PROJECT: **NE Cape**

CLIENT ADDRESS: 4100 Spenard Road, Anchorage, AK 99517

PROPOSED USE:

LAB NO.: 437

SOURCE: Test Boring 88-6 SUBMITTED BY: Johanna Dreher FIELD NO.: 02NE88SB041

SAMPLED FROM: Auger / Brass Sleeve DATE SAMPLED: 8/18/2002 DATE REPORTED: 11/7/2002

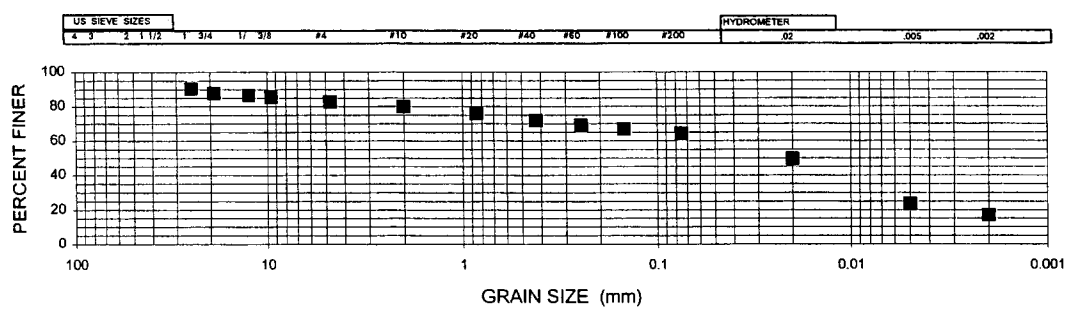
LOCATION: Phase III, RI DEPTH: 4-6' DATE RECEIVED: 8/26/2002

GRAIN SIZE DISTRIBUTION		
SIEVE	% PASS	SPEC.
5"		
4"		
3"		
2"		
1 1/2"		
1"	90	
3/4"	88	
1/2"	87	
3/8"	86	
#4	83	
#8		
#10	80	
#16		
#20	76	
#30		
#40	72	
#50		
#60	69	
#80		
#100	67	
#200	64.2	
.02MM	49.6	
.005MM	23.5	
.002MM	16.8	

CLASSIFICATION			
	UNIFIED	AASHTO	FAA
% + 10			
% + 3			
% GRAVEL	17.3		
% SAND	18.5		
% SILT	64.2		
% CLAY			
FSV			
LL	28.0		
PL	23.7		
PI	4.3		
CLASS	ML		

COMPACTION	
OPTIMUM MOISTURE:	
CORR. OPTIMUM MOISTURE:	
MIN. DRY DENSITY.	
MAX. DRY DENSITY:	
CORR. MAX. DRY DENSITY:	
% FRACTURE:	
METHOD:	
NATURAL DENSITY:	
NATURAL MOISTURE:	21.7%
WEIGHT LOOSE:	
WEIGHT RODDED:	

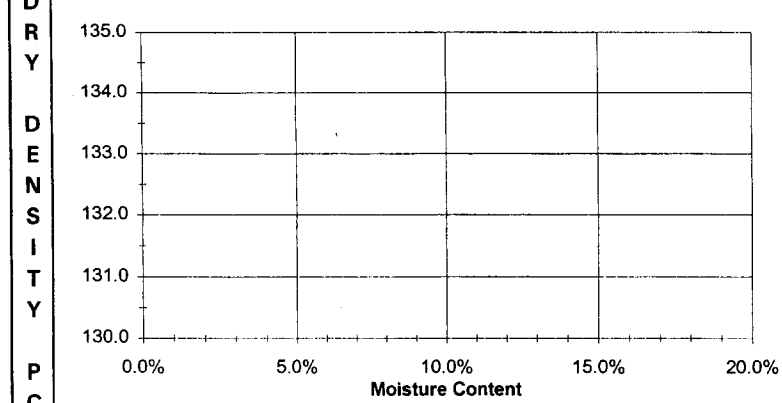
GRAIN SIZE DISTRIBUTION CHART



TOTAL WT. TESTED: 2,596 GMS.

COARSE	SPEC	FINE	SPEC	DELETERIOUS MAT.
				MINUS #200 MESH
				SOFT FRAGMENTS
				COAT & LIG. OR L.T.WT.PT.
				CLAY LUMPS
				STICKS & ROOTS
				FRIABLE PARTICLES
				THIN-ELONGATED
				ORGANIC COLOR
				FINENESS MODULUS
				SULFATE SOUNDNESS
				DEGRADATION VALUE
1.251				ABSORPTION
2.557				SPG.-BULK
2.589				SPG.-BULK S.S.D.
2.641		2.585		SPG.-APPARENT

MOISTURE DENSITY RELATIONSHIP



Tech Responsible: M. Panilo / D. Gettman Checked By: Rich Giessel

ORGANIC CONTENT %:

L.A. ABRASION LOSS:

PERMEABILITY (cm/s): 1.3E-07

Signed By: Richard A. Giessel

Title: Quality Assurance Manager

R&M CLASSIFICATION: Silt, with some Gravel, and with some Sand

REMARKS: Brass liner sample consisted of three distinct soil layers, blue-grey silt, brown gravely sand, and another layer of blue-grey silt.

LABORATORY TEST REPORT

R&M CONSULTANTS, INC. 9101 VANGUARD DR. ANCHORAGE, ALASKA 99507 PH 907-522-1707

CLIENT: MWH
PROJECT: NE Cape
CLIENT PROJECT: NE Cape
CLIENT ADDRESS: 4100 Spenard Road, Anchorage, AK 99517
PROPOSED USE:
SOURCE: Test Boring 88-9
SAMPLED FROM: Auger / Brass Sleeve
LOCATION: Phase III, RI

R&M PROJECT: 251177
SUBMITTED BY: Johanna Dreher
DATE SAMPLED: 8/19/2002
DEPTH: 10-12'

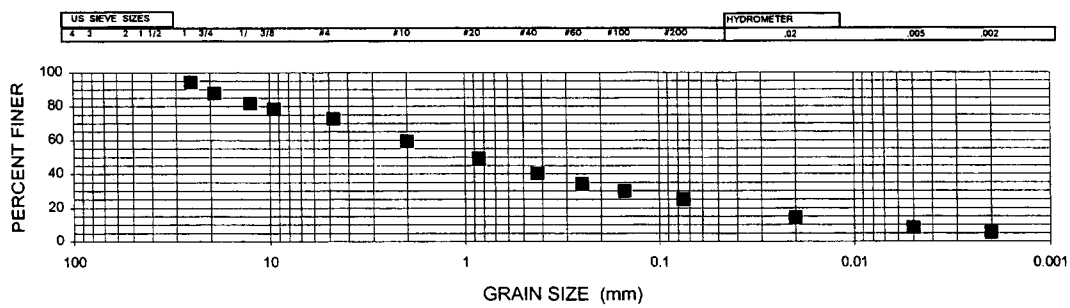
LAB NO.: 437
FIELD NO.: 02NE88SB042
DATE REPORTED: 11/7/2002
DATE RECEIVED: 8/26/2002

GRAIN SIZE DISTRIBUTION		
SIEVE	% PASS	SPEC.
5"		
4"		
3"		
2"		
1 1/2"		
1"	94	
3/4"	88	
1/2"	82	
3/8"	78	
#4	73	
#8		
#10	59	
#16		
#20	49	
#30		
#40	40	
#50		
#60	34	
#80		
#100	30	
#200	25.0	
.02MM	14.3	
.005MM	8.4	
.002MM	5.4	

CLASSIFICATION			
	UNIFIED	AASHTO	FAA
% + 10			
% + 3			
% GRAVEL	27.3		
% SAND	47.7		
% SILT	25.0		
% CLAY			
FSV			
LL			
PL			
PI			
CLASS	SM		

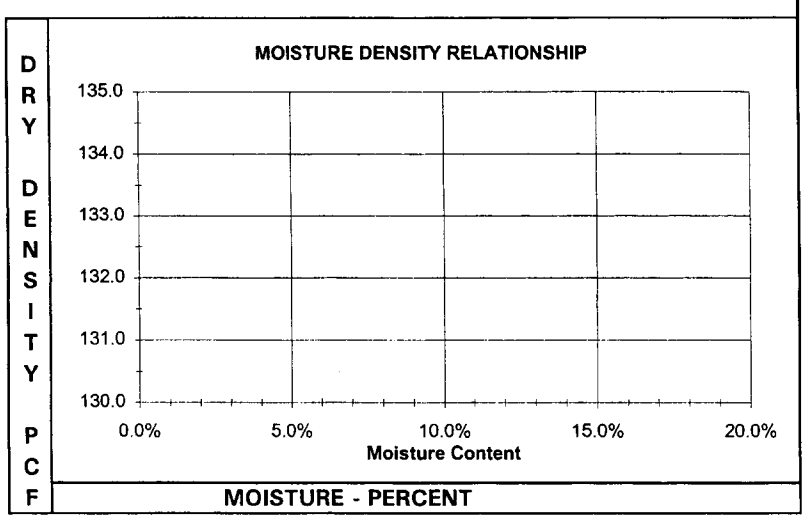
COMPACTION	
OPTIMUM MOISTURE:	
CORR. OPTIMUM MOISTURE:	
MIN. DRY DENSITY.	
MAX. DRY DENSITY:	
CORR. MAX. DRY DENSITY:	
% FRACTURE:	
METHOD:	
NATURAL DENSITY:	
NATURAL MOISTURE:	7.8%
WEIGHT LOOSE:	
WEIGHT RODDED:	

GRAIN SIZE DISTRIBUTION CHART



TOTAL WT. TESTED: 5,475 GMS.

COARSE	SPEC	FINE	SPEC	DELETERIOUS MAT.
				MINUS #200 MESH
				SOFT FRAGMENTS
				COAT & LIG. OR L.T.WT.PT.
				CLAY LUMPS
				STICKS & ROOTS
				FRIABLE PARTICLES
				THIN-ELONGATED
				ORGANIC COLOR
				FINENESS MODULUS
				SULFATE SOUNDNESS
				DEGRADATION VALUE
0.507				ABSORPTION
2.590				SPG.-BULK
2.603				SPG.-BULK S.S.D.
2.624		2.640		SPG.-APPARENT



Tech Responsible: M. Panilo / D. Gettman Checked By: Rich Giessel

ORGANIC CONTENT %:
L.A. ABRASION LOSS:
PERMEABILITY (cm/s): 7.0E-06

Signed By: Richard A. Giessel
Title: Quality Assurance Manager

R&M CLASSIFICATION: Sand, with some Gravel, and with some Silt

REMARKS:

LABORATORY TEST REPORT

R&M CONSULTANTS, INC. 9101 VANGUARD DR. ANCHORAGE, ALASKA 99507 PH 907-522-1707

CLIENT: **MWH** R&M PROJECT: **251177**

PROJECT: **NE Cape**

CLIENT PROJECT: **NE Cape**

CLIENT ADDRESS: 4100 Spenard Road, Anchorage, AK 99517

PROPOSED USE:

LAB NO.: 437

SOURCE: Test Boring 88-16 SUBMITTED BY: Johanna Dreher FIELD NO.: 02NE88SB043

SAMPLED FROM: Auger / Brass Sleeve DATE SAMPLED: 8/20/2002 DATE REPORTED: 11/7/2002

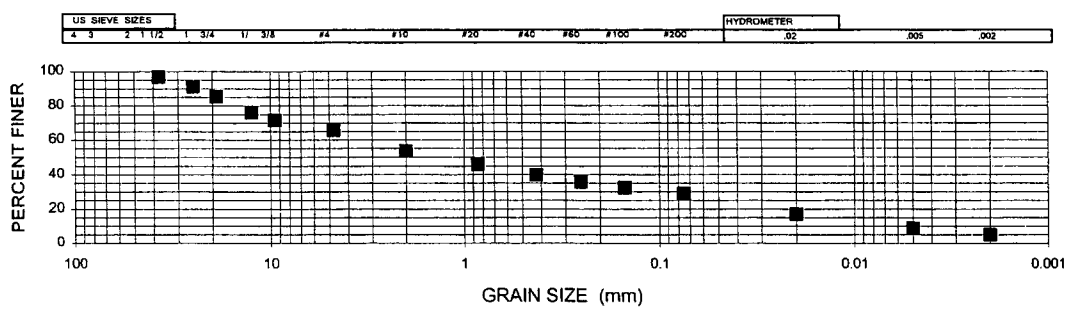
LOCATION: Phase III, RI DEPTH: 7-9' DATE RECEIVED: 8/26/2002

GRAIN SIZE DISTRIBUTION		
SIEVE	% PASS	SPEC.
5"		
4"		
3"		
2"		
1 1/2"	97	
1"	91	
3/4"	85	
1/2"	76	
3/8"	72	
#4	66	
#8		
#10	54	
#16		
#20	46	
#30		
#40	40	
#50		
#60	36	
#80		
#100	33	
#200	29.0	
.02MM	16.9	
.005MM	8.7	
.002MM	5.1	

CLASSIFICATION			
	UNIFIED	AASHTO	FAA
% + 10			
% + 3			
% GRAVEL	34.3		
% SAND	36.7		
% SILT	29.0		
% CLAY			
FSV			
LL			
PL			
PI			
CLASS	SM		

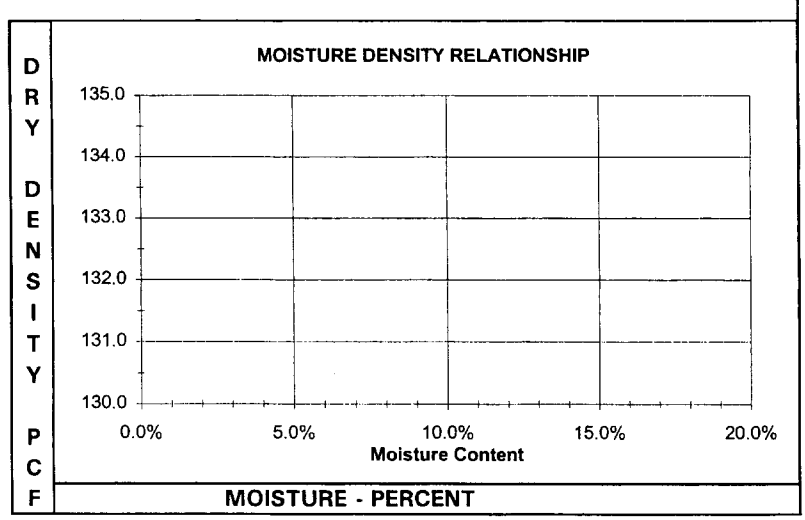
COMPACTION	
OPTIMUM MOISTURE:	
CORR. OPTIMUM MOISTURE:	
MIN. DRY DENSITY.	
MAX. DRY DENSITY:	
CORR. MAX. DRY DENSITY:	
% FRACTURE:	
METHOD:	
NATURAL DENSITY:	
NATURAL MOISTURE:	7.9%
WEIGHT LOOSE:	
WEIGHT RODDED:	

GRAIN SIZE DISTRIBUTION CHART



TOTAL WT. TESTED: 5,321 GMS.

COARSE	SPEC	FINE	SPEC	DELETERIOUS MAT.
				MINUS #200 MESH
				SOFT FRAGMENTS
				COAT & LIG. OR L.T.WT.PT.
				CLAY LUMPS
				STICKS & ROOTS
				FRIABLE PARTICLES
				THIN-ELONGATED
				ORGANIC COLOR
				FINENESS MODULUS
				SULFATE SOUNDNESS
				DEGRADATION VALUE
1.078				ABSORPTION
2.582				SPG.-BULK
2.610				SPG.-BULK S.S.D.
2.656		2.649		SPG.-APPARENT



Tech Responsible: M. Panilo / D. Gettman Checked By: Rich Giessel

ORGANIC CONTENT %:

L.A. ABRASION LOSS:

PERMEABILITY (cm/s): **5.9E-06**

Signed By: Richard A. Giessel

Title: Quality Assurance Manager

R&M CLASSIFICATION: Sand, with Gravel, and with some Silt

REMARKS:

LABORATORY TEST REPORT

R&M CONSULTANTS, INC. 9101 VANGUARD DR. ANCHORAGE, ALASKA 99507 PH 907-522-1707

CLIENT: MWH
PROJECT: NE Cape
CLIENT PROJECT: NE Cape
CLIENT ADDRESS: 4100 Spenard Road, Anchorage, AK 99517
PROPOSED USE:
SOURCE: Test Boring 88-18
SAMPLED FROM: Auger / Brass Sleeve
LOCATION: Phase III, RI

R&M PROJECT: 251177
SUBMITTED BY: Johanna Dreher
DATE SAMPLED: 8/21/2002
DEPTH: 9-11'

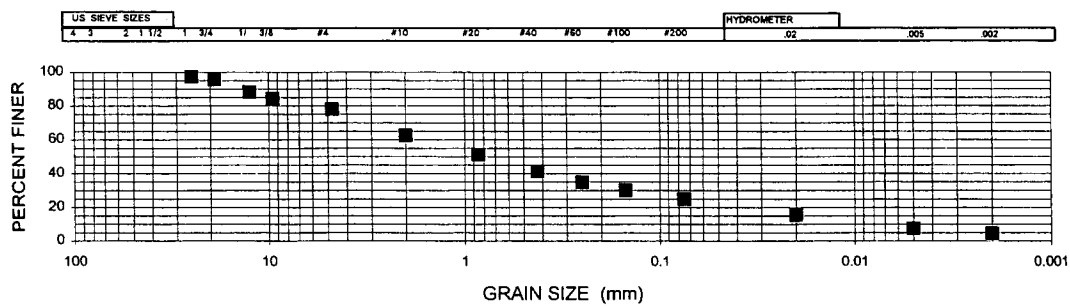
LAB NO.: 437
FIELD NO.: 02NE88SB044
DATE REPORTED: 11/7/2002
DATE RECEIVED: 8/26/2002

GRAIN SIZE DISTRIBUTION		
SIEVE	% PASS	SPEC.
5"		
4"		
3"		
2"		
1 1/2"		
1"	97	
3/4"	96	
1/2"	88	
3/8"	84	
#4	78	
#8		
#10	62	
#16		
#20	51	
#30		
#40	41	
#50		
#60	35	
#80		
#100	30	
#200	24.9	
.02MM	15.5	
.005MM	7.6	
.002MM	4.6	

CLASSIFICATION			
	UNIFIED	AASHTO	FAA
% + 10			
% + 3			
% GRAVEL	22.0		
% SAND	53.1		
% SILT	24.9		
% CLAY			
FSV			
LL			
PL			
PI			
CLASS	SM		

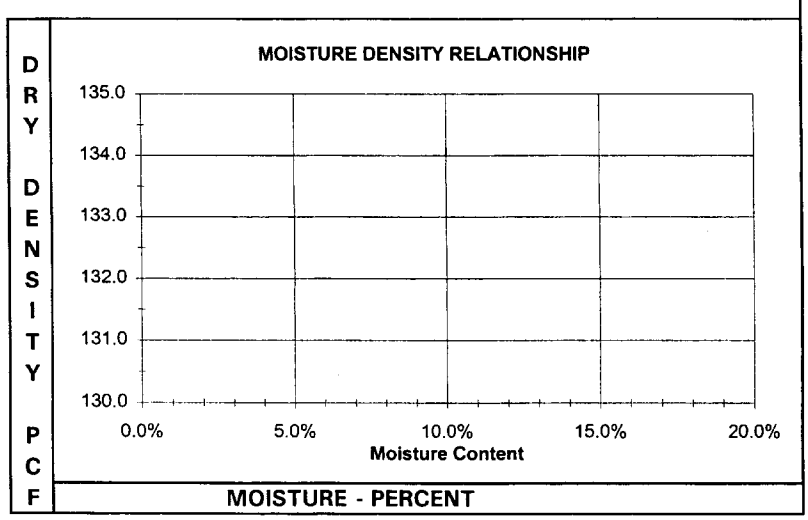
COMPACTION	
OPTIMUM MOISTURE:	
CORR. OPTIMUM MOISTURE:	
MIN. DRY DENSITY.	
MAX. DRY DENSITY:	
CORR. MAX. DRY DENSITY:	
% FRACTURE:	
METHOD:	
NATURAL DENSITY:	
NATURAL MOISTURE:	7.6%
WEIGHT LOOSE:	
WEIGHT RODDED:	

GRAIN SIZE DISTRIBUTION CHART



TOTAL WT. TESTED: 5,813 GMS.

COARSE	SPEC	FINE	SPEC	DELETERIOUS MAT.
				MINUS #200 MESH
				SOFT FRAGMENTS
				COAT & LIG. OR L.T.WT.PT.
				CLAY LUMPS
				STICKS & ROOTS
				FRIABLE PARTICLES
				THIN-ELONGATED
				ORGANIC COLOR
				FINENESS MODULUS
				SULFATE SOUNDNESS
				DEGRADATION VALUE
1.190				ABSORPTION
2.585				SPG.-BULK
2.616				SPG.-BULK S.S.D.
2.667		2.647		SPG.-APPARENT



Tech Responsible: M. Panilo / D. Gettman Checked By: Rich Giessel

ORGANIC CONTENT %:
L.A. ABRASION LOSS:
PERMEABILITY (cm/s): 6.2E-06

Signed By: Richard A. Giessel
Title: Quality Assurance Manager

R&M CLASSIFICATION: Sand, with some Gravel, and with some Silt

REMARKS:

R&M CONSULTANTS, INC. 9101 VANGUARD DR. ANCHORAGE, ALASKA 99507 PH 907-522-1707

Client: MWH
Project: NE Cape, Phase III, RI
Description: Coarse aggregate screened from bulk samples

Project#: 251177
Date: 10/23/2002

SPECIFIC GRAVITY OF SOILS AND AGGREGATES WORKSHEET

I. Coarse Aggregate (AASHTO T 85 / ASTM C 127)
II. Fine Aggregate (AASHTO T 84 / ASTM C 128)
III. LeChatelier method (AK T-2)

I. Coarse	# 041	# 042	# 043	# 044		
Temperature (23 ± 1 ^{0}C)	22.5	22.5	22.5	22.5		
A. Oven dry mass (g)	447.7	1498.0	1817.4	1277.5		
B. SSD mass (g)	453.3	1505.6	1837.0	1292.7		
C. Mass in water (g)	278.2	927.2	1133.2	798.5		
D. Temperature coefficient	0.99945	0.99945	0.99945	0.99945		
Bulk Sp G = A/(B-C)	2.557	2.590	2.582	2.585		
SSD Sp G = B/(B-C)	2.589	2.603	2.610	2.616		
Apparent Sp G = A/(A-C)	2.641	2.624	2.656	2.667		
% Absorption = 100[(B-A)/A]	1.25%	0.51%	1.08%	1.19%		
Apparent Sp G at 20 °C	2.640	2.623	2.655	2.666		
II. Fine (From other worksheets)						
Fine Sp. G.	2.590	2.645	2.655	2.653		
% + #4 (From Brass Liner)	23%	26%	33%	19%		
% - #4 (From Brass Liner)	77%	74%	67%	81%		
Weighted Sp. G.	**2.601**	**2.640**	**2.655**	**2.656**		

NOTES:

Coarse Aggregate and Fine Aggregate percentages in Brass Liner Samples varied from their respective bulk samples and were used in void ratio related calculations for permeability tests to give better precision. This required additional testing of Liner sample after the permeability test to determine coarse fraction.

R&M CONSULTANTS, INC. 9101 VANGUARD DR. ANCHORAGE, ALASKA 99507 PH 907-522-1707

Client: MWH
Project: NE Cape, Phase III, RI
Description: Coarse aggregate screened from bulk samples

Project#: 251177
Date: 10/23/2002

SPECIFIC GRAVITY OF SOILS AND AGGREGATES WORKSHEET

I. Coarse Aggregate (AASHTO T 85 / ASTM C 127)
II. Fine Aggregate (AASHTO T 84 / ASTM C 128)
III. LeChatelier method (AK T-2)

I. Coarse	# 041	# 042	# 043	# 044		
Temperature (23 ± 1 °C)	22.5	22.5	22.5	22.5		
A. Oven dry mass (g)	447.7	1498.0	1817.4	1277.5		
B. SSD mass (g)	453.3	1505.6	1837.0	1292.7		
C. Mass in water (g)	278.2	927.2	1133.2	798.5		
D. Temperture coefficient	0.99945	0.99945	0.99945	0.99945		
Bulk Sp G = A/(B-C)	2.557	2.590	2.582	2.585		
SSD Sp G = B/(B-C)	2.589	2.603	2.610	2.616		
Apparent Sp G = A/(A-C)	2.641	2.624	2.656	2.667		
% Absorption = 100[(B-A)/A]	1.25%	0.51%	1.08%	1.19%		
Apparent Sp G at 20 °C	2.640	2.623	2.655	2.666		
Fine Sp. G.	2.590	2.645	2.655	2.653		
% + #4	17%	27%	34%	22%		
% - #4	83%	73%	66%	78%		
Weighted Sp. G.	2.598	2.639	2.655	2.656		

NOTES:

R&M Soils Worksheet - Permeability - Sample Data

Client:	Mongomery Watson Hartza	Project:	Northeast Cape, St. Lawrence Island		
Address:	4100 Spenard Road	Material:	Insitu, 6" Long Brass Liner Sample 2.4" Diameter		
	Anchorage, AK 99517	Sampled From:	Test Hole	Field #:	02NE88SB041
Source:	Phase III	Sampled by:	BGM, BO, DQ	Date Sampled:	8/18/2002
Test Location:	R.I. Test Hole 88-6	Received by:	Allen Stevens	Date Received:	8/26/2002
Depth:	4-6'	Tech Assigned:	Rich Giessel	R&M Project #:	251177
Quantity Rep:	Test Boring Sample	Date Completed:	11/5/2002	Lab #:	437

Test Method: ASTM D 5856 - 95 (Reapproved 2002) - Permeability of Granular Soils - Method A

Special Sample Preparation: Field sample delivered to lab in "undisturbed" condition

Permeameter Type: Brass Liner

Method of Compaction: in-situ as near as possible with drive sample

Confinement: Porous stones with filter paper and small coil springs above top stone

CA/FA Wtd. Specific Gravity: 2.601

Permeant Liquid Used: Tap water

Initial Sample Dimensions and Mass:

	Cylinder Height Measurements				cm
Data	1	2	3	4	
BL	15.195	15.203	15.211	15.210	cm
Delta	1.421	1.368	1.310	1.346	cm
Delta	1.118	1.125	1.167	1.199	cm
Net	12.656	12.710	12.734	12.665	cm
H_i=	Average Net Height			12.691	cm
	Cylinder Diameter Measurements				cm
	1	2	3	4	
Data	6.178	6.146	6.140	6.192	cm
D=	Average Diameter			6.164	cm
A=	$\pi(D/2)^2$, Cylinder End Area			29.84	cm^2
C_i=	H_i*A, Initial Cylinder Volume			378.72	cm^3
E	Ws + Brass Liner + Caps			1018.87	g
F	Caps			16.90	g
G=	(E-F-N), Ws			791.05	g

Initial Moisture Data: (Use minimum 100g)

I	Wet Wt + Tare	g
J	Dry Wt + Tare	g
K	Tare	g
w_i=	(I-J)/(J-K), Initial moisture	
γ_{di}=	(G/(1+w_i))/C_i, Dry density	g/cm^3
γ_{di}=	(G/(1+w_i))/C_i, Dry density	lbs/ft^3
n=	$1-\gamma_d/G_s\rho_w$ Initial porosity	
T	Final CA Dry Mass	159.52 g
U=	100(T/Q), % CA in BL Sample	23.24%

Final Sample Dimensions and Mass:

	Cylinder Ht. Measurements				cm
Data	1	2	3	4	
BL, St	15.292	15.239	15.253	15.291	cm
Delta	2.555	2.546	2.547	2.544	cm
Net	12.737	12.693	12.706	12.747	cm
H_f=	Average Height			12.721	cm
ΔH=	H_f - H_i , Final Swell			0.029	cm
C_f=	H_f*A, Final Cyl Volume			379.60	cm^3

Final Moisture Data: (Dry entire sample)

L	Tare Wt	231.39 g
M	T + Wet + BL+2FP	1236.81 g
N	Brass Liner	210.92 g
R	2 Wet filter papers	0.97 g
O=	(M-L-N-R), Wet Wt	793.53 g
P	Dry Wt + Tare	917.82 g
Q=	Dry Wt	686.43 g
w_f=	(O-Q)/Q, Final Moisture	15.6%

Final Test data:

h	Hydraulic head	160.3 cm	
i=	h/H_f Hydraulic Gradient	12.60	
γ_{df}=	Q/C_f	$1.808\ g/cm^3$	112.8
S=	(O-Q)/γ_w/V_p, Sat %	93.1%	pcf
V_p=	A*H_f-Q/G_s*γ_w	115.3 cm^3	
n=	V_p/C_f , Final porosity	0.304	
Q_{in}=	Total Water Inflow	19.3 cm^3	
N_{pv}=	Qin/Vp Pore vols inflow	0.167	

Average hydraulic conductivity of last four readings, κ = 1.3E-09 m/s or 1.3E-07 cm/s

R&M Soils Worksheet - Permeability - Flow Test Data

Test Data:

Test No.	Head h (cm)	Burette Reading a initial (cm^3)	Burette Reading b final (cm^3)	Grad cyl c overflow (cm^3)	(b-a)-c Q_{in} (cm^3)	Q_{out} (cm^3)	Elapsed Time (t) (s)	ν= Q/At (cm/s)	ι= h/H_f	κ= ν/ι (cm/s)	Temp °C	Viscosity Correct (Table 1)	Perm= κ(Corr.) (cm/s)
1	160.3					2.72	66,720	1.4E-06	12.60	1.1E-07	21	0.976	1.1E-07
*													
2	160.3					3.53	73,500	1.6E-06	12.60	1.3E-07	21	0.976	1.2E-07
*													
3	160.3					1.23	22,980	1.8E-06	12.60	1.4E-07	21	0.976	1.4E-07
*													
4	160.3					0.31	6,900	1.5E-06	12.60	1.2E-07	21	0.976	1.2E-07
*													
5	160.3					0.19	2,460	2.6E-06	12.60	2.1E-07	21	0.976	2.0E-07
*													
6	160.0					3.95	78,420	1.7E-06	12.58	1.3E-07	21	0.976	1.3E-07
*													
7	159.7					3.75	74,460	1.7E-06	12.55	1.3E-07	21	0.976	1.3E-07
*													
8	160.2					3.62	74,700	1.6E-06	12.59	1.3E-07	21	0.976	1.3E-07
*													
9													
*													
10													
*													
11													
*													
12													
*													
13													
*													
14													
*													
15													
*													
16													
*													
Total flow and time during testing >>						19.3	400,140						

* Draindown flow between trials

Tested by: Dan Gettman

Checked by: Rich Giessel

Elapsed Time # 041

Trial:	Clock Time: (mm/dd/yyyy hh:mm)	Elapsed Time: (hh:mm)	Seconds:	T & Evap: (grams)	Delta Evap: (grams)	T & Water: (grams)	Delta Water: (grams)
1	10/30/2002 17:36			142.41	.	121.12	
2	10/31/2002 12:08	18:32:00	66,720	142.37	-0.04	123.80	2.72
3	11/1/2002 8:33	20:25:00	73,500	142.31	-0.06	127.27	3.53
4	11/1/2002 14:56	6:23:00	22,980	142.29	-0.02	128.48	1.23
5	11/1/2002 16:51	1:55:00	6,900	142.28	-0.01	128.78	0.31
6	11/1/2002 17:32	0:41:00	2,460	142.27	-0.01	128.96	0.19
7	11/2/2002 15:19	21:47:00	78,420	142.22	-0.05	132.86	3.95
8	11/3/2002 12:00	20:41:00	74,460	142.17	-0.05	136.56	3.75
9	11/4/2002 8:45	20:45:00	74,700	142.11	-0.06	140.12	3.62

Note: Sample contained two layers of blue-grey, clayey silt, each about 2" thick, with a layer of brown, gravely sand between them.

R&M CONSULTANTS, INC. 9101 VANGUARD DR. ANCHORAGE, ALASKA 99507 PH 907-522-1707

R&M Soils Worksheet - Specific Gravity of Soils

Client:	MWH		**Project:**	NE Cape	
Client Address:	4100 Spenard Road, Anchorage, AK 99517				
Lab Number:	437	**Project Number:**	251177	**Submitted by:**	Johanna Dreher
Source:	Test Boring 88-6			**Depth:**	4-6'
Sampled from:	Auger / Brass Sleeve		**Location:**	Phase III RI	
Date Sampled:	8/18/2002	**Sampled by:**	Douglas Quut	**Field Number:**	02NE88SB041
Date Received:	8/26/2002	**Received by:**	Allen Stevens		

Specific Gravity of Soil Solids by Water Pycnometer
AASHTO T 100-99, ASTM D 854-00

AASHTO / ASTM Procedure using 500 ml glass - vacuum pycnometer:

1. Determine mass of a dry pycnometer.
2. Enter the calibrated volume of pycnometer on the worksheet.
3. Dry sample to constant mass (mass repeats within 0.1%) at 105 ± 5° C and cool to room temperature.
4. Wet soil may also be used and dry mass determined at end of test.
5. Add sample to tared pycnometer containing about 100 ml of distilled water and record mass if using oven dry soil.
6. Swirl the soil and water to disperse the soil in the water creating a slurry.
7. Gradually apply vacuum until residual pressure manometer reads less than 13.3 kPa (<100 mm Hg) (Pycnometer and vacuum pump gauges will read less than 26 inches of Hg.)
8. Agitate continuously and maintain vacuum for 2 hours.
9. Release vacuum slowly by increasing pressure at a rate not to exceed 8 kPa per second. (Pycnometer and vacuum pump gauges should drop no more than 2 inches of Hg per sec for 12-15 sec.)
10. Fill pycnometer to calibration mark with room temperature 15-30° C distilled water, introducing deaired water carefully with a length of rubber tubing to avoid introduction of air into the soil slurry.
11. Dry any droplets of water from above the calibration mark in the stem of the pycnometer with a rolled up paper towel and determine the mass of pycnometer and sample to the nearest 0.01 gram.
12. Measure and record the temperature of the soil/water slurry to the nearest 0.1 °C.
13. Empty the entire contents of the pycnometer into a tared drying pan and dry to constant mass.
14. Record dry mass of sample and calculate specific gravity as shown below.

Type sample:	Silt	**Size of Sample:**	106 g	**No. of Samples:**	1
Begin Test Date:	10/21/2002	**Tech:**	rg / mp	**Finish Date:**	10/24/2002

Formulas:	**Description of data or calculation:**	**Data:**
Mp	Mass of dry pycnometer (g)	166.76
Vp	Volume of pycnometer (ml)	499.20
Ms	Mass of oven dry sample in air (g)	106.21
Mpws,t	Mass of pycnometer with sample and water (g)	730.00
Tt	Test Temperature of soil slurry (°C)	21.8
Pw,t	Density of water at temperature above, from ASTM D 854, Table 2	0.99782
K	Temperature coefficient, from ASTM D 854, Table 2	0.99961
Mpw,t = Mp + (Vp*Pw,t)	Calculated mass of pycnometer and water at test temperature (g)	664.872
Vs = (Mpw,t + Ms)-Mpws,t	Volume of soil solids in the pycmometer soil slurry (ml)	41.082
Ps = Ms/Vs	Density of soil solids at test temperature (g/ml)	2.585
Gt = Ps/Pw,t	Specific gravity of soil solids at the test temperature	2.591
G_{20C}	Specific gravity of soil solids corrected to a temperature of 20 °C	2.590

Notes: Flask E

R&M Soils Worksheet - Permeability - Sample Data

Client:	Mongomery Watson Hartza	Project:	Northeast Cape, St. Lawrence Island		
Address:	4100 Spenard Road	Material:	Insitu, 6" Long Brass Liner Sample 2.4" Diameter		
	Anchorage, AK 99517	Sampled From:	Test Hole	Field #:	02NE88SB042
Source:	Phase III	Sampled by:	BGM, BO, DQ	Date Sampled:	8/19/2002
Test Location:	R.I. Test Hole 88-9	Received by:	Allen Stevens	Date Received:	8/26/2002
Depth:	10-12'	Tech Assigned:	Rich Giessel	R&M Project #:	251177
Quantity Rep:	Test Boring Sample	Date Completed:	11/6/2002	Lab #:	437

Test Method: ASTM D 5856 - 95 (Reapproved 2002) - Permeability of Granular Soils - Method A

Special Sample Preparation: Field sample delivered to lab in "undisturbed" condition

Permeameter Type: Brass Liner

Method of Compaction: in-situ as near as possible with drive sample

Confinement: Porous stones with filter paper and small coil springs above top stone

CA/FA Wtd. Specific Gravity: 2.640

Permeant Liquid Used: Tap water

Initial Sample Dimensions and Mass:

	Cylinder Height Measurements				cm
Data	1	2	3	4	
BL	15.354	15.323	15.283	15.275	cm
Delta	1.458	1.449	1.455	1.456	cm
Net	13.896	13.874	13.828	13.819	cm
H_i=	Average Net Height			13.854	cm
	Cylinder Diameter Measurements				cm
	1	2	3	4	
Data	6.155	6.174	6.183	6.178	cm
D=	Average Diameter			6.173	cm
A=	$\pi(D/2)^2$, Cylinder End Area			29.92	cm^2
C_i=	H_i*A, Initial Cylinder Volume			414.6	cm^3
E	Ws + Brass Liner + 2 FP			1155.32	g
F	2 Filter Papers			0.33	g
G=	(E-F-N), Ws			946.13	g

Initial Moisture Data: (Use minimum 100g)

I	Wet Wt + Tare	g
J	Dry Wt + Tare	g
K	Tare	g
w_i=	(I-J)/(J-K), Initial moisture	
γ_{di}=	$(G/(1+w_i))/C_i$, Dry density	g/cm^3
γ_{di}=	$(G/(1+w_i))/C_i$, Dry density	lbs/ft^3
n=	$1-\gamma_d/G_s\rho_w$ Initial porosity	
T	Final CA Dry Mass	214.74 g
U=	100(T/Q), % CA in BL Sample	26.22%

Final Sample Dimensions and Mass:

	Cylinder Ht. Measurements				cm
Data	1	2	3	4	
BL, St	15.354	15.323	15.283	15.275	cm
Delta	1.458	1.449	1.455	1.456	cm
Net	13.896	13.874	13.828	13.819	cm
H_f=	Average Height			13.854	cm
ΔH=	$H_f - H_i$, Final Swell			0.000	cm
C_f=	H_f*A, Final Cyl Volume			414.57	cm^3

Final Moisture Data: (Dry entire sample)

L	Tare Wt	228.26 g
M	Ws + BL+2FP	1134.84 g
N	Brass Liner	208.86 g
R	2 Wet filter papers	1.02 g
O=	(M-N-R), Wet Wt	925.0 g
P	Dry Wt + Tare	1047.2 g
Q=	Dry Wt	819.0 g
w_f=	(O-Q)/Q, Final Moisture	12.9%

Final Test data:

h	Hydraulic head	160.4 cm	
i=	h/H_f Hydraulic Gradient	11.61	
γ_{df}=	Q/C_f	$1.975\ g/cm^3$	123.3
S=	$(O-Q)/\gamma_w/V_p$, Sat %	103.4%	pcf
V_p=	$A*H_f - Q/G_s*\gamma_w$	$102.7\ cm^3$	
n=	V_p/C_f, Final porosity	0.248	
Q_{in}=	Total Water Inflow	$206.3\ cm^3$	
N_{pv}=	Qin/Vp Pore vols inflow	2.008	

Average hydraulic conductivity of last four readings, κ = 7.0E-08 m/s or 7.0E-06 cm/s

R&M Soils Worksheet - Permeability - Flow Test Data

Test Data:

Test No.	Head h (cm)	Burette Reading a initial (cm^3)	Burette Reading b final (cm^3)	Grad cyl c overflow (cm^3)	(b-a)-c Q_{in} (cm^3)	Q_{out} (cm^3)	Elapsed Time (t) (s)	v= Q/At (cm/s)	i= h/H_f	k= v/i (cm/s)	Temp °C	Viscosity Correct (Table 1)	Perm= k(Corr.) (cm/s)
1	160.4					11.16	3240	1E-04	11.61	9.9E-06	21	0.976	9.7E-06
*													
2	160.4					3.09	900	1E-04	11.61	9.9E-06	21	0.976	9.6E-06
*													
3	160.4					151.66	52440	1E-04	11.61	8.3E-06	21	0.976	8.1E-06
*													
4	160.4					11.01	4440	8E-05	11.61	7.1E-06	21	0.976	7.0E-06
*													
5	160.4					11.05	4320	9E-05	11.61	7.4E-06	21	0.976	7.2E-06
*													
6	160.4					7.55	3060	8E-05	11.61	7.1E-06	21	0.976	6.9E-06
*													
7	160.4					10.77	4320	8E-05	11.61	7.2E-06	21	0.976	7.0E-06
*													
8													
*													
9													
*													
10													
*													
11													
*													
12													
*													
13													
*													
14													
*													
15													
*													
16													
*													
Total flow and time during testing > >						206.3	72720						

* Draindown flow between trials

Tested by: Dan Gettman

Checked by: Rich Giessel

Elapsed Time # 042a

Trial:	Clock Time: (mm/dd/yyyy hh:mm)	Elapsed Time: (hh:mm)	Seconds:	T & Evap: (grams)	Delta Evap: (grams)	T & Water: (grams)	Delta Water: (grams)
0	11/4/2002 16:31			142.28		121.11	
1	11/4/2002 17:25	0:54:00	3,240	142.25	-0.03	132.24	11.16
2	11/4/2002 17:40	0:15:00	900	142.24	-0.01	135.32	3.09
	New Containers for Water Measurements						
	11/4/2002 17:40	0:00:00	0	248.72		24.60	
3	11/5/2002 8:14	14:34:00	52,440	244.05	-4.67	171.59	151.66
4	11/5/2002 9:28	1:14:00	4,440	243.64	-0.41	182.19	11.01
5	11/5/2002 10:40	1:12:00	4,320	243.22	-0.42	192.82	11.05
6	11/5/2002 11:31	0:51:00	3,060	242.94	-0.28	200.09	7.55
7	11/5/2002 12:43	1:12:00	4,320	242.56	-0.38	210.48	10.77

R&M CONSULTANTS, INC. 9101 VANGUARD DR. ANCHORAGE, ALASKA 99507 PH 907-522-1707

R&M Soils Worksheet - Specific Gravity of Soils

Client:	MWH		**Project:**	NE Cape	
Client Address:	4100 Spenard Road, Anchorage, AK 99517				
Lab Number:	437	**Project Number:** 251177		**Submitted by:**	Johanna Dreher
Source:	Test Boring 88-9			**Depth:**	10-12'
Sampled from:	Auger / Brass Sleeve		**Location:**	**Phase III RI**	
Date Sampled:	8/19/2002	**Sampled by:**	Douglas Quut	**Field Number:**	02NE88SB042
Date Received:	8/26/2002	**Received by:**	Allen Stevens		

Specific Gravity of Soil Solids by Water Pycnometer
AASHTO T 100-99, ASTM D 854-00

AASHTO / ASTM Procedure using 500 ml glass - vacuum pycnometer:

1. Determine mass of a dry pycnometer.
2. Enter the calibrated volume of pycnometer on the worksheet.
3. Dry sample to constant mass (mass repeats within 0.1%) at 105 ± 5° C and cool to room temperature.
4. Wet soil may also be used and dry mass determined at end of test.
5. Add sample to tared pycnometer containing about 100 ml of distilled water and record mass if using oven dry soil.
6. Swirl the soil and water to disperse the soil in the water creating a slurry.
7. Gradually apply vacuum until residual pressure manometer reads less than 13.3 kPa (<100 mm Hg) (Pycnometer and vacuum pump gauges will read less than 26 inches of Hg.)
8. Agitate continuously and maintain vacuum for 2 hours.
9. Release vacuum slowly by increasing pressure at a rate not to exceed 8 kPa per second. (Pycnometer and vacuum pump gauges should drop no more than 2 inches of Hg per sec for 12-15 sec.)
10. Fill pycnometer to calibration mark with room temperature 15-30° C distilled water, introducing deaired water carefully with a length of rubber tubing to avoid introduction of air into the soil slurry.
11. Dry any droplets of water from above the calibration mark in the stem of the pycnometer with a rolled up paper towel and determine the mass of pycnometer and sample to the nearest 0.01 gram.
12. Measure and record the temperature of the soil/water slurry to the nearest 0.1 °C.
13. Empty the entire contents of the pycnometer into a tared drying pan and dry to constant mass.
14. Record dry mass of sample and calculate specific gravity as shown below.

Type sample:	Silty Sand	**Size of Sample:**	130 g	**No. of Samples:**	1
Begin Test Date:	10/21/2002	**Tech:**	rg / mp	**Finish Date:**	10/24/2002

Formulas:	**Description of data or calculation:**	**Data:**
Mp	Mass of dry pycnometer (g)	161.06
Vp	Volume of pycnometer (ml)	499.16
Ms	Mass of oven dry sample in air (g)	129.55
Mpws,t	Mass of pycnometer with sample and water (g)	739.64
Tt	Test Temperature of soil slurry (°C)	21.6
Pw,t	Density of water at temperature above, from ASTM D 854, Table 2	0.99786
K	Temperature coefficient, from ASTM D 854, Table 2	0.99966
Mpw,t = Mp + (Vp * Pw,t)	Calculated mass of pycnometer and water at test temperature (g)	659.152
Vs = (Mpw,t + Ms) - Mpws,t	Volume of soil solids in the pycmometer soil slurry (ml)	49.062
Ps = Ms/Vs	Density of soil solids at test temperature (g/ml)	2.641
Gt = Ps/Pw,t	Specific gravity of soil solids at the test temperature	2.646
G_{20C}	Specific gravity of soil solids corrected to a temperature of 20 °C	2.645

Notes: Flask F

R&M Soils Worksheet - Permeability - Sample Data

Client:	Mongomery Watson Hartza	Project:	Northeast Cape, St. Lawrence Island		
Address:	4100 Spenard Road	Material:	Insitu, 6" Long Brass Liner Sample 2.4" Diameter		
	Anchorage, AK 99517	Sampled From:	Test Hole	Field #:	02NE88SB043
Source:	Phase III	Sampled by:	BGM, BO, DQ	Date Sampled:	8/20/2002
Test Location:	R.I. Test Hole 88-16	Received by:	Allen Stevens	Date Received:	8/26/2002
Depth:	7-9'	Tech Assigned:	Rich Giessel	R&M Project #:	251177
Quantity Rep:	Test Boring Sample	Date Completed:	11/6/2002	Lab #:	437

Test Method: ASTM D 5856 - 95 (Reapproved 2002) - Permeability of Granular Soils - Method A

Special Sample Preparation: Field sample delivered to lab in "undisturbed" condition

Permeameter Type: Brass Liner

Method of Compaction: in-situ as near as possible with drive sample

Confinement: Porous stones with filter paper and small coil springs above top stone

CA/FA Wtd. Specific Gravity: 2.655

Permeant Liquid Used: Tap water

Initial Sample Dimensions and Mass:

	Cylinder Height Measurements				cm
Data	1	2	3	4	
BL	15.195	15.211	15.197	15.168	cm
Delta	0.000	0.000	0.000	0.000	cm
Net	15.195	15.211	15.197	15.168	cm

H_i=	Average Net Height	15.193 cm

	Cylinder Diameter Measurements				cm
	1	2	3	4	
Data	6.161	6.169	6.172	6.182	cm

D=	Average Diameter	6.171 cm
A=	$\pi(D/2)^2$, Cylinder End Area	29.91 cm^2
C_i=	H_i*A, Initial Cylinder Volume	454.4 cm^3
E	Ws + Brass Liner + Caps	1024.1 g
F	2 Caps	17.1 g
G=	(E-F-N), Ws	798.57 g

Initial Moisture Data: (Use minimum 100g)

I	Wet Wt + Tare	g
J	Dry Wt + Tare	g
K	Tare	g
w_i=	(I-J)/(J-K), Initial moisture	
γ_{di}=	(G/(1+w_i))/C_i, Dry density	g/cm^3
γ_{di}=	(G/(1+w_i))/C_i, Dry density	lbs/ft^3
n=	$1-\gamma_d/G_s\rho_w$ Initial porosity	
T	Final CA Dry Mass	263.80 g
U=	100(T/Q), % CA in BL Sample	33.02%

Final Sample Dimensions and Mass:

	Cylinder Ht. Measurements				cm
Data	1	2	3	4	
BL, St	15.195	15.211	15.197	15.168	cm
Delta	0.000	0.000	0.000	0.000	cm
Net	15.195	15.211	15.197	15.168	cm

H_f=	Average Height	15.193 cm
ΔH=	H_f - H_i , Final Swell	0.000 cm
C_f=	H_f*A, Final Cyl Volume	454.40 cm^3

Final Moisture Data: (Dry entire sample)

L	Tare Wt	225.11 g
M	Ws + BL+2FP	1163.63 g
N	Brass Liner	208.48 g
R	2 Wet filter papers	0.95 g
O=	(M-N-R), Wet Wt	954.2 g
P	Dry Wt + Tare	1024.1 g
Q=	Dry Wt	799.0 g
w_f=	(O-Q)/Q, Final Moisture	19.4%

Final Test data:

h	Hydraulic head	67.8 cm	
ι=	h/H_f Hydraulic Gradient	4.47	
γ_{df}=	Q/C_f	1.758 g/cm^3	109.7
S=	(O-Q)/γ_w/V_p, Sat %	102.1%	pcf
V_p=	A*H_f -Q/G_s*γ_w	152.2 cm^3	
n=	V_p/C_f , Final porosity	0.335	
Q_{in}=	Total Water Inflow	82.1 cm^3	
N_{pv}=	Qin/Vp Pore vols inflow	0.540	

Average hydraulic conductivity of last four readings, κ = 5.9E-08 m/s or 5.9E-06 cm/s

R&M Soils Worksheet - Permeability - Flow Test Data

Test Data:

Test No.	Head h (cm)	Burette Reading a initial (cm^3)	Burette Reading b final (cm^3)	Grad cyl c overflow (cm^3)	(b-a)-c Q_{in} (cm^3)	Q_{out} (cm^3)	Elapsed Time (t) (s)	$v =$ Q/At (cm/s)	$i =$ h/H_f	$\kappa =$ v/i (cm/s)	Temp °C	Viscosity Correct (Table 1)	Perm= κ(Corr.) (cm/s)
1	67.8					26.55	2100	2.8E-05	4.47	6.2E-06	21	0.976	6.1E-06
*													
2	67.8					23.58	1920	2.7E-05	4.47	6.0E-06	21	0.976	5.9E-06
*													
3	67.8					13.96	1140	2.7E-05	4.47	6.0E-06	21	0.976	5.9E-06
*													
4	67.8					18.04	1500	2.6E-05	4.47	5.9E-06	21	0.976	5.8E-06
*													
5													
*													
6													
*													
7													
*													
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9													
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10													
*													
11													
*													
12													
*													
13													
*													
14													
*													
15													
*													
16													
*													
Total flow and time during testing > >						82.1	6660						

* Draindown flow between trials

Tested by: Dan Gettman

Checked by: Rich Giessel

Elapsed Time # 043a

Trial:	Clock Time: (mm/dd/yyyy hh:mm)	Elapsed Time: (hh:mm)	Seconds:	T & Evap: (grams)	Delta Evap: (grams)	T & Water: (grams)	Delta Water: (grams)
1	11/5/2002 14:30			217.19		24.69	
2	11/5/2002 15:05	0:35:00	2,100	216.94	-0.25	50.99	26.55
3	11/5/2002 15:37	0:32:00	1,920	216.73	-0.21	74.36	23.58
4	11/5/2002 15:56	0:19:00	1,140	216.60	-0.13	88.19	13.96
5	11/5/2002 16:21	0:25:00	1,500	216.46	-0.14	106.09	18.04
6							
7							
8							
9							

R&M CONSULTANTS, INC. 9101 VANGUARD DR. ANCHORAGE, ALASKA 99507 PH 907-522-1707

R&M Soils Worksheet - Specific Gravity of Soils

Client:	**MWH**		**Project:**	**NE Cape**	
Client Address:	**4100 Spenard Road, Anchorage, AK 99517**				
Lab Number:	**437**	**Project Number:**	**251177**	**Submitted by:**	**Johanna Dreher**
Source:	**Test Boring 88-16**			**Depth:**	**7-9'**
Sampled from:	**Auger / Brass Sleeve**		**Location:**	**Phase III RI**	
Date Sampled:	**8/20/2002**	**Sampled by:**	**Douglas Quut**	**Field Number:**	**02NE88SB043**
Date Received:	**8/26/2002**	**Received by:**	**Allen Stevens**		

Specific Gravity of Soil Solids by Water Pycnometer
AASHTO T 100-99, ASTM D 854-00

AASHTO / ASTM Procedure using 500 ml glass - vacuum pycnometer:

1. Determine mass of a dry pycnometer.
2. Enter the calibrated volume of pycnometer on the worksheet.
3. Dry sample to constant mass (mass repeats within 0.1%) at 105 ± 5° C and cool to room temperature.
4. Wet soil may also be used and dry mass determined at end of test.
5. Add sample to tared pycnometer containing about 100 ml of distilled water and record mass if using oven dry soil.
6. Swirl the soil and water to disperse the soil in the water creating a slurry.
7. Gradually apply vacuum until residual pressure manometer reads less than 13.3 kPa (<100 mm Hg) (Pycnometer and vacuum pump gauges will read less than 26 inches of Hg.)
8. Agitate continuously and maintain vacuum for 2 hours.
9. Release vacuum slowly by increasing pressure at a rate not to exceed 8 kPa per second. (Pycnometer and vacuum pump gauges should drop no more than 2 inches of Hg per sec for 12-15 sec.)
10. Fill pycnometer to calibration mark with room temperature 15-30° C distilled water, introducing deaired water carefully with a length of rubber tubing to avoid introduction of air into the soil slurry.
11. Dry any droplets of water from above the calibration mark in the stem of the pycnometer with a rolled up paper towel and determine the mass of pycnometer and sample to the nearest 0.01 gram.
12. Measure and record the temperature of the soil/water slurry to the nearest 0.1 °C.
13. Empty the entire contents of the pycnometer into a tared drying pan and dry to constant mass.
14. Record dry mass of sample and calculate specific gravity as shown below.

Type sample:	Silty Sand	**Size of Sample:**	119 g	**No. of Samples:**	1
Begin Test Date:	10/21/2002	**Tech:**	rg / mp	**Finish Date:**	10/24/2002

Formulas:	**Description of data or calculation:**	**Data:**
Mp	Mass of dry pycnometer (g)	166.39
Vp	Volume of pycnometer (ml)	499.25
Ms	Mass of oven dry sample in air (g)	119.02
Mpws,t	Mass of pycnometer with sample and water (g)	738.68
Tt	Test Temperature of soil slurry (°C)	21.6
Pw,t	Density of water at temperature above, from ASTM D 854, Table 2	0.99786
K	Temperature coefficient, from ASTM D 854, Table 2	0.99966
Mpw,t = Mp + (Vp*Pw,t)	Calculated mass of pycnometer and water at test temperature (g)	664.572
Vs = (Mpw,t + Ms)-Mpws,t	Volume of soil solids in the pycmometer soil slurry (ml)	44.912
Ps = Ms/Vs	Density of soil solids at test temperature (g/ml)	2.650
Gt = Ps/Pw,t	Specific gravity of soil solids at the test temperature	2.656
G_{20C}	Specific gravity of soil solids corrected to a temperature of 20 °C	2.655

Notes: Flask G

R&M Soils Worksheet - Permeability - Sample Data

Client:	Mongomery Watson Hartza	Project:	Northeast Cape, St. Lawrence Island		
Address:	4100 Spenard Road	Material:	Insitu, 6" Long Brass Liner Sample 2.4" Diameter		
	Anchorage, AK 99517	Sampled From:	Test Hole	Field #:	02NE88SB044
Source:	Phase III	Sampled by:	BGM, BO, DQ	Date Sampled:	8/21/2002
Test Location:	R.I. Test Hole 88-18	Received by:	Allen Stevens	Date Received:	8/26/2002
Depth:	9-11'	Tech Assigned:	Rich Giessel	R&M Project #:	251177
Quantity Rep:	Test Boring Sample	Date Completed:	11/7/2002	Lab #:	437

Test Method: ASTM D 5856 - 95 (Reapproved 2002) - Permeability of Granular Soils - Method A

Special Sample Preparation: Field sample delivered to lab in "undisturbed" condition

Permeameter Type: Brass Liner

Method of Compaction: in-situ as near as possible with drive sample

Confinement: Porous stones with filter paper and small coil springs above top stone

CA/FA Wtd. Specific Gravity: 2.656

Permeant Liquid Used: Tap water

Initial Sample Dimensions and Mass:

	Cylinder Height Measurements				cm
Data	1	2	3	4	
BL	15.225	15.257	15.223	15.228	cm
Delta	0.264	0.256	0.255	0.254	cm
Net	14.961	15.001	14.968	14.974	cm
H_i=	Average Net Height			14.976	cm
	Cylinder Diameter Measurements				cm
	1	2	3	4	
Data	6.158	6.181	6.156	6.185	cm
D=	Average Diameter			6.170	cm
A=	$\pi(D/2)^2$, Cylinder End Area			29.90	cm^2
C_i=	H_i*A, Initial Cylinder Volume			447.8	cm^3
E	Ws + Brass Liner + Caps+2FP			1175.01	g
F	Caps + 2 Filter Papers			17.12	g
G=	(E-F-N), Ws			948.29	g

Initial Moisture Data: (Use minimum 100g)

I	Wet Wt + Tare	g
J	Dry Wt + Tare	g
K	Tare	g
w_i=	(I-J)/(J-K), Initial moisture	
γ_{di}=	$(G/(1+w_i))/C_i$, Dry density	g/cm^3
γ_{di}=	$(G/(1+w_i))/C_i$, Dry density	lbs/ft^3
n=	$1-\gamma_d/G_s\rho_w$ Initial porosity	
T	Final CA Dry Mass	161.31 g
U=	100(T/Q), % CA in BL Sample	18.70%

Final Sample Dimensions and Mass:

	Cylinder Ht. Measurements				cm
Data	1	2	3	4	
BL, St	15.225	15.257	15.223	15.228	cm
Delta	0.264	0.256	0.255	0.254	cm
Net	14.961	15.001	14.968	14.974	cm
H_f=	Average Height			14.976	cm
ΔH=	$H_f - H_i$, Final Swell			0.000	cm
C_f=	H_f*A, Final Cyl Volume			447.77	cm^3

Final Moisture Data: (Dry entire sample)

L	Tare Wt	226.51 g
M	Wet + BL + 2FP	1197.09 g
N	Brass Liner	209.60 g
R	2 Wet filter papers	0.92 g
O=	(M-N-R), Wet Wt	986.57 g
P	Dry Wt + Tare	1088.98 g
Q=	Dry Wt	862.47 g
w_f=	(O-Q)/Q, Final Moisture	14.4%

Final Test data:

h	Hydraulic head	67.8 cm	
i=	h/H_f Hydraulic Gradient	4.53	
γ_{df}=	Q/C_f	1.926 g/cm^3	120.2
S=	$(O-Q)/\gamma_w/V_p$, Sat %	101.6%	pcf
V_p=	$A*H_f - Q/G_s*\gamma_w$	122.3 cm^3	
n=	V_p/C_f, Final porosity	0.273	
Q_{in}=	Total Water Inflow	296.2 cm^3	
N_{pv}=	Qin/Vp Pore vols inflow	2.421	

Average hydraulic conductivity of last four readings, κ = 6.2E-08 m/s or 6.2E-06 cm/s

R&M Soils Worksheet - Permeability - Flow Test Data

Test Data:

Test No.	Head h (cm)	Burette Reading a initial (cm^3)	Burette Reading b final (cm^3)	Grad cyl c overflow (cm^3)	(b-a)-c Q_{in} (cm^3)	Q_{out} (cm^3)	Elapsed Time (t) (s)	$v=$ Q/At (cm/s)	$i=$ h/H_f	$\kappa=$ v/i (cm/s)	Temp °C	Viscosity Correct (Table 1)	Perm= κ(Corr.) (cm/s)
1	160.4					27.9	900	7E-05	10.71	6.5E-06	21	0.976	6.3E-06
*													
2	160.4					46.8	1560	7E-05	10.71	6.3E-06	21	0.976	6.1E-06
*													
3	160.4					28.6	900	7E-05	10.71	6.6E-06	21	0.976	6.5E-06
*													
4	160.4					29.7	900	7E-05	10.71	6.9E-06	21	0.976	6.7E-06
*													
5	160.4					139.5	5100	6E-05	10.71	5.7E-06	21	0.976	5.6E-06
*													
6	160.4					23.7	1020	5E-05	10.71	4.8E-06	21	0.976	4.7E-06
*													
7													
*													
8													
*													
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*													
10													
*													
11													
*													
12													
*													
13													
*													
14													
*													
15													
*													
16													
*													
Total flow and time during testing > >						296.2	10380						

* Draindown flow between trials

Tested by: Dan Gettman

Checked by: Rich Giessel

Elapsed Time # 044a

Trial:	Clock Time: (mm/dd/yyyy hh:mm)	Elapsed Time: (hh:mm)	Seconds:	T & Evap: (grams)	Delta Evap: (grams)	T & Water: (grams)	Delta Water: (grams)
0	11/6/2002 11:22			210.88		25.62	
1	11/6/2002 11:37	0:15:00	900	210.78	-0.10	53.37	27.85
2	11/6/2002 12:03	0:26:00	1,560	210.60	-0.18	99.98	46.79
3	11/6/2002 12:18	0:15:00	900	210.49	-0.11	128.47	28.60
4	11/6/2002 12:33	0:15:00	900	210.38	-0.11	158.08	29.72
5	11/6/2002 13:58	1:25:00	5,100	209.85	-0.53	297.02	139.47
6	11/6/2002 14:15	0:17:00	1,020	209.75	-0.10	320.64	23.72
7							
8							

R&M CONSULTANTS, INC. 9101 VANGUARD DR. ANCHORAGE, ALASKA 99507 PH 907-522-1707

R&M Soils Worksheet - Specific Gravity of Soils

Client:	MWH		**Project:**	NE Cape	
Client Address:	4100 Spenard Road, Anchorage, AK 99517				
Lab Number:	437	**Project Number:** 251177		**Submitted by:**	Johanna Dreher
Source:	Test Boring 88-18			**Depth:**	9-11'
Sampled from:	Auger / Brass Sleeve		**Location:**	**Phase III RI**	
Date Sampled:	8/21/2002	**Sampled by:**	Douglas Quut	**Field Number:**	02NE88SB044
Date Received:	8/26/2002	**Received by:**	Allen Stevens		

Specific Gravity of Soil Solids by Water Pycnometer
AASHTO T 100-99, ASTM D 854-00

AASHTO / ASTM Procedure using 500 ml glass - vacuum pycnometer:

1. Determine mass of a dry pycnometer.
2. Enter the calibrated volume of pycnometer on the worksheet.
3. Dry sample to constant mass (mass repeats within 0.1%) at 105 ± 5° C and cool to room temperature.
4. Wet soil may also be used and dry mass determined at end of test.
5. Add sample to tared pycnometer containing about 100 ml of distilled water and record mass if using oven dry soil.
6. Swirl the soil and water to disperse the soil in the water creating a slurry.
7. Gradually apply vacuum until residual pressure manometer reads less than 13.3 kPa (<100 mm Hg) (Pycnometer and vacuum pump gauges will read less than 26 inches of Hg.)
8. Agitate continuously and maintain vacuum for 2 hours.
9. Release vacuum slowly by increasing pressure at a rate not to exceed 8 kPa per second. (Pycnometer and vacuum pump gauges should drop no more than 2 inches of Hg per sec for 12-15 sec.)
10. Fill pycnometer to calibration mark with room temperature 15-30° C distilled water, introducing deaired water carefully with a length of rubber tubing to avoid introduction of air into the soil slurry.
11. Dry any droplets of water from above the calibration mark in the stem of the pycnometer with a rolled up paper towel and determine the mass of pycnometer and sample to the nearest 0.01 gram.
12. Measure and record the temperature of the soil/water slurry to the nearest 0.1 °C.
13. Empty the entire contents of the pycnometer into a tared drying pan and dry to constant mass.
14. Record dry mass of sample and calculate specific gravity as shown below.

Type sample:	Silty Sand	**Size of Sample:**	136 g	**No. of Samples:**	1
Begin Test Date:	10/21/2002	**Tech:**	rg / mp	**Finish Date:**	10/24/2002

Formulas:	**Description of data or calculation:**	**Data:**
Mp	Mass of dry pycnometer (g)	165.26
Vp	Volume of pycnometer (ml)	498.98
Ms	Mass of oven dry sample in air (g)	136.07
Mpws,t	Mass of pycnometer with sample and water (g)	747.85
Tt	Test Temperature of soil slurry (°C)	21.7
Pw,t	Density of water at temperature above, from ASTM D 854, Table 2	0.99784
K	Temperature coefficient, from ASTM D 854, Table 2	0.99963
Mpw,t = Mp + (Vp*Pw,t)	Calculated mass of pycnometer and water at test temperature (g)	663.162
Vs = (Mpw,t + Ms)-Mpws,t	Volume of soil solids in the pycmometer soil slurry (ml)	51.382
Ps = Ms/Vs	Density of soil solids at test temperature (g/ml)	2.648
Gt = Ps/Pw,t	Specific gravity of soil solids at the test temperature	2.654
G_{20C}	Specific gravity of soil solids corrected to a temperature of 20 °C	2.653

Notes: Flask H

BL Perm - MWH#042

R&M Soils Worksheet - Permeability - Sample Data

SAMPLE PIPED

Client:	Mongomery Watson Hartza	Project:	Northeast Cape, St. Lawrence Island		
Address:	4100 Spenard Road	Material:	Insitu, 6" Long Brass Liner Sample 2.4" Diameter		
	Anchorage, AK 99517	Sampled From:	Test Hole	Field #:	02NE88SB042
Source:	Phase III	Sampled by:	BGM, BO, DQ	Date Sampled:	8/19/2002
Test Location:	R.I. Test Hole 88-9	Received by:	Allen Stevens	Date Received:	8/26/2002
Depth:	10-12'	Tech Assigned:	Rich Giessel	R&M Project #:	251177
Quantity Rep:	Test Boring Sample	Date Completed:	10/28/2002	Lab #:	437

Test Method: ASTM D 5856 - 95 (Reapproved 2002) - Permeability of Granular Soils - Method A

Special Sample Preparation: Field sample delivered to lab in "undisturbed" condition

Permeameter Type: Brass Liner

Method of Compaction: in-situ as near as possible with drive sample

Confinement: Porous stones with filter paper and small coil springs above top stone

CA/FA Wtd. Specific Gravity: 2.640

Permeant Liquid Used: Tap water

Initial Sample Dimensions and Mass:

	Cylinder Height Measurements				cm
Data	1	2	3	4	
BL	15.231	15.236	15.237	15.211	cm
Delta	1.079	0.974	0.974	1.081	cm
Net	14.152	14.262	14.263	14.130	cm

H_i =	Average Net Height	14.202 cm

	Cylinder Diameter Measurements				cm
	1	2	3	4	
Data	6.139	6.185	6.178	6.175	cm

D =	Average Diameter	6.169 cm
A =	$\pi(D/2)^2$, Cylinder End Area	29.89 cm^2
C_i =	H_i*A, Initial Cylinder Volume	424.5 cm^3
E	Ws + Brass Liner + Caps	996.27 g
F	Caps	18.79 g
G =	(E-F-N), Ws	768.6 g

Initial Moisture Data: (Use minimum 100g)

I	Wet Wt + Tare	g
J	Dry Wt + Tare	g
K	Tare	g
w_i =	(I-J)/(J-K), Initial moisture	
γ_{di} =	$(G/(1+w_i))/C_i$, Dry density	g/cm^3
γ_{di} =	$(G/(1+w_i))/C_i$, Dry density	lbs/ft^3
n =	$1-\gamma_d/G_s\rho_w$ Initial porosity	

Final Sample Dimensions and Mass:

	Cylinder Ht. Measurements				cm
	1	2	3	4	
Data	14.297	14.282	14.246	14.166	cm

H_f =	Average Height	14.24775 cm
ΔH =	H_f - H_i , Final Swell	0.046 cm
C_f =	H_f*A, Final Cyl Volume	425.8934 cm^3

Final Moisture Data: (Dry entire sample)

L	Tare Wt	228.50 g
M	T + Wet + BL+2FP	1315.55 g
N	Brass Liner	208.91 g
R	2 Wet filter papers	1.06 g
O =	(M-L-N-R), Wet Wt	877.1 g
P	Dry Wt + Tare	988.9 g
Q =	Dry Wt	760.4 g
w_f =	(O-Q)/Q, Final Moisture	15.3%

Final Test data:

h	Hydraulic head	67.6 cm
ι =	h/H_f Hydraulic Gradient	4.74
γ_{df} =	Q/C_f	1.785 g/cm^3
S =	$(O-Q)/\gamma_w/V_p$, Sat %	85.1%
V_p =	$A*H_f - Q/G_s*\gamma_w$	137.3 cm^3
n =	V_p/C_f , Final porosity	0.322
Q_{in} =	Total Water Inflow	2263.1 cm^3
N_{pv} =	Qin/Vp Pore vols inflow	16.480

Average hydraulic conductivity of last four readings, κ = 1.5E-04 m/s or 1.5E-02 cm/s

BL Perm - MWH#043

R&M Soils Worksheet - Permeability - Sample Data SAMPLE PIPED

Client:	Mongomery Watson Hartza	Project:	Northeast Cape, St. Lawrence Island		
Address:	4100 Spenard Road	Material:	Insitu, 6" Long Brass Liner Sample 2.4" Diameter		
	Anchorage, AK 99517	Sampled From:	Test Hole	Field #:	02NE88SB043
Source:	Phase III	Sampled by:	BGM, BO, DQ	Date Sampled:	8/20/2002
Test Location:	R.I. Test Hole 88-16	Received by:	Allen Stevens	Date Received:	8/26/2002
Depth:	7-9'	Tech Assigned:	Rich Giessel	R&M Project #:	251177
Quantity Rep:	Test Boring Sample	Date Completed:		Lab #:	437

Test Method: ASTM D 5856 - 95 (Reapproved 2002) - Permeability of Granular Soils - Method A

Special Sample Preparation: Field sample delivered to lab in "undisturbed" condition

Permeameter Type: Brass Liner

Method of Compaction: in-situ as near as possible with drive sample

Confinement: Porous stones with filter paper and small coil springs above top stone

CA/FA Wtd. Specific Gravity: 2.655

Permeant Liquid Used: Tap water

Initial Sample Dimensions and Mass:

	Cylinder Height Measurements				cm
Data	1	2	3	4	
BL	15.154	15.201	15.186	15.151	cm
Delta	1.355	1.309	1.212	1.337	cm
Net	13.799	13.892	13.974	13.814	cm
H_i=	Average Net Height			13.870	cm
	Cylinder Diameter Measurements				cm
	1	2	3	4	
Data	6.166	6.139	6.091	6.164	cm
D=	Average Diameter			6.140	cm
A=	$\pi(D/2)^2$, Cylinder End Area			29.61	cm^2
C_i=	H_i*A, Initial Cylinder Volume			410.7	cm^3
E	Ws + Brass Liner + Caps			1024.1	g
F	Caps			17.1	g
G=	(E-F-F_b), Ws			798.5	g

Initial Moisture Data: (Use minimum 100g)

I	Wet Wt + Tare		g
J	Dry Wt + Tare		g
K	Tare		g
w_i=	(I-J)/(J-K), Initial moisture		
γ_{di}=	(G/[(1+w_i)(C_i,)] Dry density		g/cm^3
γ_{di}=	(G/(1+w_i))/C_i, Dry density		lbs/ft^3
n=	1-$\gamma_d/G_s\rho_w$ Initial porosity		

Final Sample Dimensions and Mass:

	Cylinder Ht. Measurements				cm
	1	2	3	4	
Data	13.799	13.892	13.974	13.814	cm
H_f=	Average Height			13.86975	cm
ΔH=	H_f - H_i, Final Swell			0.000	cm
C_f=	H_f*A, Final Cyl Volume			410.6722	cm^3

Final Moisture Data: (Dry entire sample)

L	Tare Wt	226.41	g
M	T + Wet + BL+2FP	1291.12	g
N	Brass Liner	208.56	g
R	2 Wet filter papers	1.07	g
O=	(M-L-N-R), Wet Wt	855.1	g
P	Dry Wt + Tare	940.9	g
Q=	Dry Wt	714.5	g
w_f=	(O-Q)/Q, Final Moisture	19.7%	

1259.91 g w/o water and soil that piped through sample

Final Test data:

h	Hydraulic head	67.2	cm
i=	h/H_f Hydraulic Gradient	4.85	
γ_{df}=	Q/C_f	1.740	g/cm^3
S=	(O-Q)/γ_w/V_p, Sat %	99.8%	
V_p=	A*H_f-Q/G_s*γ_w	141.1	cm^3
n=	V_p/C_f, Final porosity	0.344	
Q_{in}=	Total Water Inflow	407.2	cm^3
N_{pv}=	Qin/Vp Pore vols inflow	2.886	

108.6

Average hydraulic conductivity of last four readings, κ = 7.8E-05 m/s or 7.8E-03 cm/s

BL Perm - MWH#044

R&M Soils Worksheet - Permeability - Sample Data

SAMPLE PIPED

Client:	Mongomery Watson Hartza	Project:	Northeast Cape, St. Lawrence Island		
Address:	4100 Spenard Road	Material:	Insitu, 6" Long Brass Liner Sample 2.4" Diameter		
	Anchorage, AK 99517	Sampled From:	Test Hole	Field #:	02NE88SB044
Source:	Phase III	Sampled by:	BGM, BO, DQ	Date Sampled:	8/21/2002
Test Location:	R.I. Test Hole 88-18	Received by:	Allen Stevens	Date Received:	8/26/2002
Depth:	9-11'	Tech Assigned:	Rich Giessel	R&M Project #:	251177
Quantity Rep:	Test Boring Sample	Date Completed:	10/28/2002	Lab #:	437

Test Method: ASTM D 5856 - 95 (Reapproved 2002) - Permeability of Granular Soils - Method A

Special Sample Preparation: Field sample delivered to lab in "undisturbed" condition

Permeameter Type: Brass Liner

Method of Compaction: in-situ as near as possible with drive sample

Confinement: Porous stones with filter paper and small coil springs above top stone

CA/FA Wtd. Specific Gravity: 2.656

Permeant Liquid Used: Tap water

Initial Sample Dimensions and Mass:

	Cylinder Height Measurements				cm
	1	2	3	4	
Data	14.071	14.103	13.984	14.028	cm
H_i=	Average Height			14.047	cm
	Cylinder Diameter Measurements				cm
	1	2	3	4	
Data	6.185	6.133	6.187	6.167	cm
D=	Average Diameter			6.168	cm
A=	$\pi(D/2)^2$, Cylinder End Area			29.88	cm^2
C_i=	H_i*A, Initial Cylinder Volume			419.7	cm^3
E	Ws + Brass Liner + Caps			986.2	g
F	Caps			17.2	g
G=	(E-F-F_b), Ws			709.2	g

Initial Moisture Data: (Use minimum 100g)

I	Wet Wt + Tare	g
J	Dry Wt + Tare	g
K	Tare	g
w_i=	(I-J)/(J-K), Initial moisture	
γ_{di}=	(G/(1+w_i))/C_i, Dry density	g/cm^3
γ_{di}=	(G/(1+w_i))/C_i, Dry density	lbs/ft^3
n=	1-$\gamma_d/G_s\rho_w$ Initial porosity	

Final Sample Dimensions and Mass:

	Cylinder Ht. Measurements				cm
	1	2	3	4	
Data	14.071	14.103	13.984	14.028	cm
H_f=	Average Height			14.047	cm
ΔH=	H_f - H_i , Final Swell			0.000	cm
C_f=	H_f*A, Final Cyl Volume			419.7075	cm^3

Final Moisture Data: (Dry entire sample)

L	Tare Wt	225.1 g
M	T + Wet + BL+2FP	1240.0 g
N	Brass Liner	209.7 g
R	2 Wet filter papers	0.6 g
O=	(M-L-N-R), Wet Wt	804.6 g
P	Dry Wt + Tare	890.3 g
Q=	Dry Wt	665.2 g
w_f=	(O-Q)/Q, Final Moisture	21.0%

Final Test data:

h	Hydraulic head	67.2 cm
ι=	h/H_f Hydraulic Gradient	4.78
γ_{df}=	Q/C_f	1.585 g/cm^3
S=	(O-Q)/γ_w/V_p, Sat %	82.7%
V_p=	A*H_f-Q/G_s*γ_w	168.8 cm^3
n=	V_p/C_f , Final porosity	0.402
Q_{in}=	Total Water Inflow	262.1 cm^3
N_{pv}=	Qin/Vp Pore vols inflow	1.553

98.9

Average hydraulic conductivity of last four readings, κ = 2.2E-05 m/s or **2.2E-03 cm/s**

APPENDIX J

Environment and Natural Resources Institute Taxonomic Report (Plant Report)

MWH

The Alaska Natural Heritage Program
University of Alaska Anchorage Environment and Natural Resources Institute
707 A Street • Suite 103 A • Anchorage, AK 99501 USA • Tel: (907) 257-2783 • Fax: (907)257-2789

October 4, 2001

William O'Connell
Montgomery Watson Harza
4100 Sepnard Road
Anchorage, AK 99517

RE: Northeast Cape, St. Lawrence Island

Dear Mr. O'Connell:

Below are the identifications of the plants from Northeast Cape, St. Lawrence Island that you provided to me. Our original understanding was that you would be providing samples of vascular plants. Several of the plants, however, are mosses or lichens and would require additional work to identify to species. I have identified them (with one exception) to genus. Sample 1102, a sedge, contained only vegetative material and cannot readily be identified to species. The flowering graminoid sample collected in September is not the same species, and had no sample number- it is listed below as *Arctophila fulva*, a common wetland grass that is often used by waterfowl. Please let me know if you need an identification of sample 1102 to the species level. All other samples were identified to species or subspecies and are listed along with commonly used synonyms and common names. In the table below, I have omitted the prefix for the sample number (01NE28PT) since it was the same for all samples.

If you have any questions, please contact me at the address above or phone me at (907) 257-2785.

Sincerely,

Robert Lipkin
Research Botanist

cc: Mike Kelly

IDENTIFICATIONS OF PLANTS FROM NORTHWEST CAPE, ST. LAWRENCE ISLAND

Sample #	Date	Scientific Name	Synonym	Common Name	Family
1101	25-Jul-01	Unidentified moss			
1102	25-Jul-01	*Carex* sp. (vegetative material only)			Cyperaceae
2101	25-Jul-01	*Pedicularis langsdorfii* Fisch. *ex* Stev. ssp. *langsdorfii*		Langsdorf's Lousewort	Scrophulariaceae
2102	25-Jul-01	*Salix pulchra* Cham.	*Salix planifolia* ssp. *pulchra* (Cham.) Argus	Diamond-Leaf Willow	Salicaceae
3101	25-Jul-01	*Cladina* sp. [lichen]			
3102	25-Jul-01	*Thamnolia* sp. [lichen]			
3103	25-Jul-01	*Polemonium acutiflorum* Willd. ex Roemer & J.A. Schultes		Tall Jacob's-Ladder	Polemoniaceae
4101	25-Jul-01	*Sphagnum* sp. [moss]			
5101	25-Jul-01	*Stereocaulon* sp. [lichen]			
5102	25-Jul-01	*Arnica lessingii* (Torr. & Gray) Greene ssp. *lessingii*		Lessing's Leopardbane	Asteraceae
5103	25-Jul-01	*Umbilicaria* sp. [lichen]			
5104	25-Jul-01	*Rhodiola integrifolia* Raf.	*Sedum roseum* ssp. *integrifolium* (Raf.) Hultén	Entire-Leaf Roseroot	Crassulaceae
5105	25-Jul-01	*Cassiope tetragona* (L.) D. Don var. *tetragona*		White Arctic Mountain-Heather	Ericaceae
5106	25-Jul-01	*Salix chamissonis* Anderss.		Chamisso's Willow	Salicaceae
5107	24-Sep-01	*Empetrum nigrum* ssp. *hermaphroditum* (Lange ex Hagerup) Böcher	*Empetrum hermaphroditum* Lange ex Hagerup	Black crowberry	Empetraceae
?	24-Sep-01	*Arctophila fulva* (Trin.) Rupr. ex Anderss.		Pendant grass	Poaceae

APPENDIX K

Estimate of Contaminated Soil Volume

MWH

Estimates of contaminated soil volumes are based on exceedences of the 18 AAC 75.340 Table B DRO cleanup level of 250 mg/Kg from soil and sediment sampling conducted in 2001 and 2002. Estimates include extrapolation between sample points and depth estimates based on known sample depths.

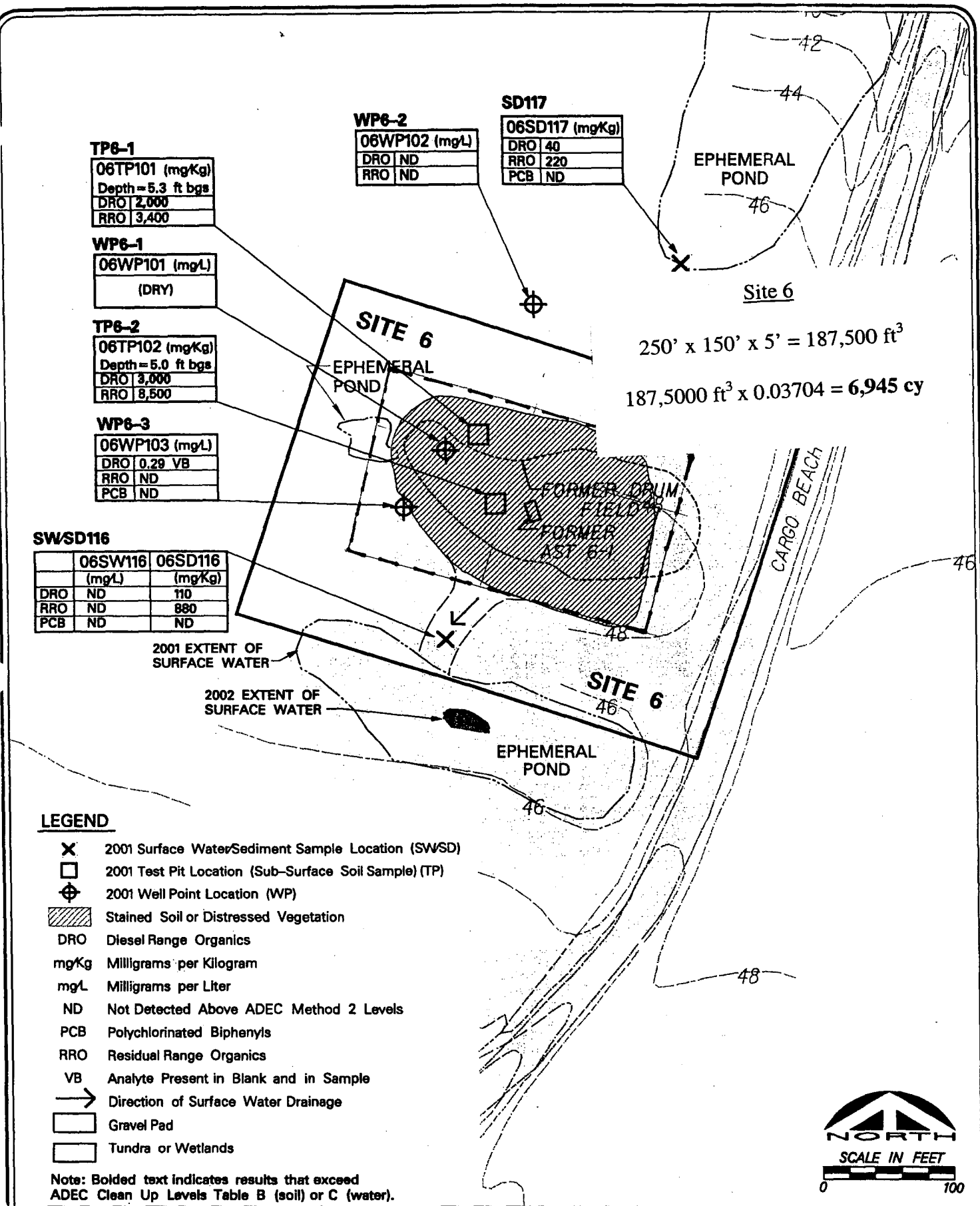
Quantities to be removed depend on the cleanup criteria used. Soil for remediation could be estimated by:

- The quantity of material that is contaminated (i.e., any detection, including sodium, iron, etc. that are below any foreseeable cleanup criteria). This is likely to be the largest quantity of material.

- The quantity of material that exceeds Method 2, Level A for RRO, DRO, GRO and $1/10^{th}$ Method 2 for the remaining constituents. This would eliminate constituents like sodium, but would still be a large quantity because calculation of cumulative risk may allow us to leave in place some constituents above $1/10^{th}$.

- The quantity of material that exceeds Method 2, Level A criteria for RRO, DRO, GRO and ignore other potential constituents. This would roughly capture the extent of the petroleum contamination (roughly because PAH often drive the petroleum cleanup) and be a less labor-intensive calculation. It would also ignore cleanup driven by constituents such as arsenic, which may be background.

Further refinement of the extent of contamination is anticipated.



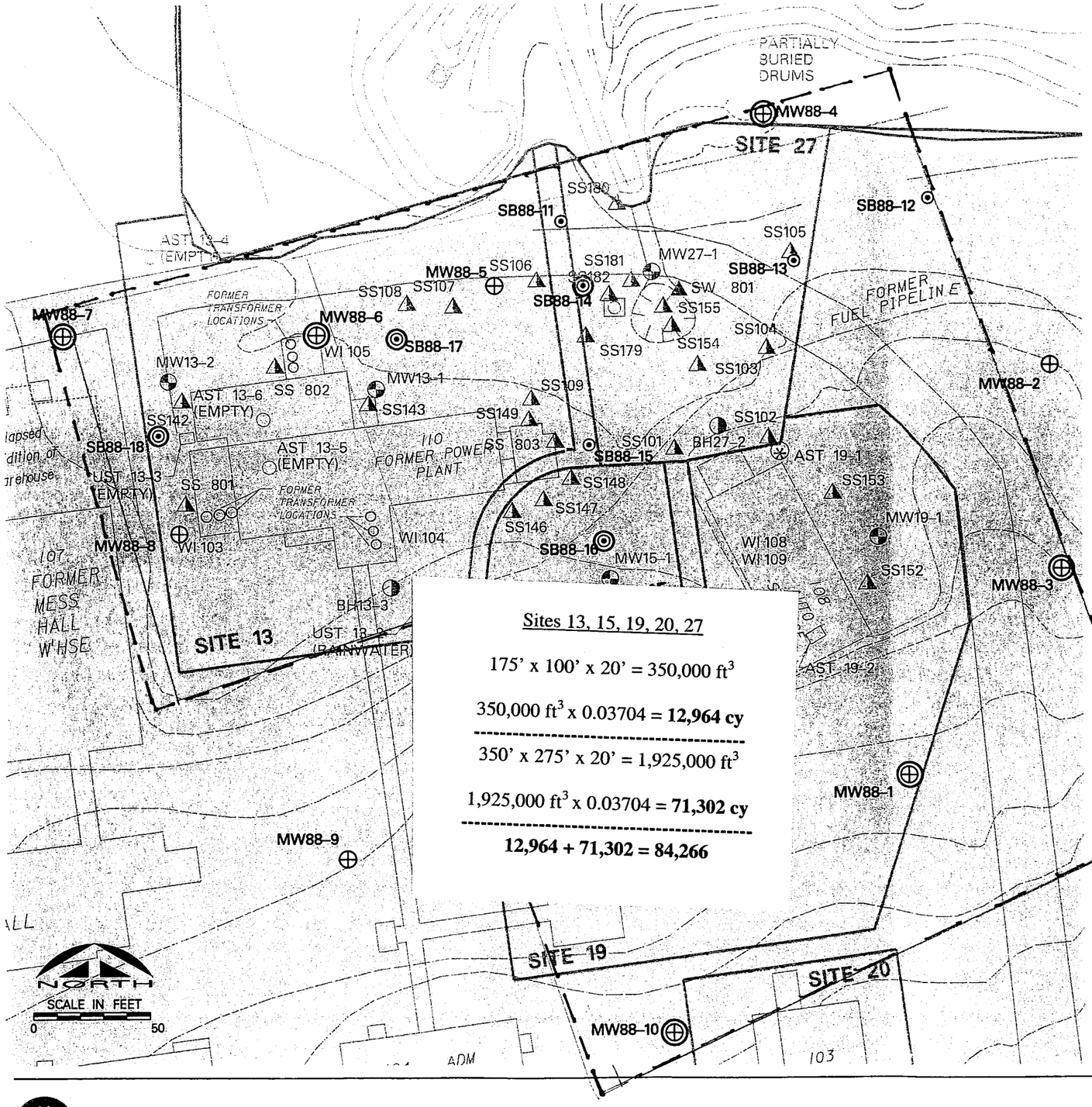
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MWH
MONTGOMERY WATSON HARZA
Anchorage, Alaska

FIGURE 2-3

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

SITE 6 – CARGO BEACH ROAD DRUM FIELD
2001 SAMPLING LOCATIONS & SELECTED RESULTS



Sites 13, 15, 19, 20, 27

175' x 100' x 20' = 350,000 ft^3

350,000 ft^3 x 0.03704 = **12,964 cy**

350' x 275' x 20' = 1,925,000 ft^3

1,925,000 ft^3 x 0.03704 = **71,302 cy**

12,964 + 71,302 = 84,266

SOILS RESULTS

Soil Sample Location	Sample (feet bgs)	GRO (mg/Kg)	DRO (mg/Kg)	RRO (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	o-Xylene (mg/Kg)	m & p- Xylene (mg/Kg)	Naphthalene (mg/Kg)	Chromium (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	**760**	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	**61000**	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	**0.24**	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	GRO (mg/L)	DRO (mg/L)	RRO (mg/L)	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	o-Xylene (mg/L)	m & p - Xylene (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
( ) – method reporting limit

Note: Bolded text indicates results that exceed ADEC Clean Up Levels Table B (soil) or C (water).

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
- DRO Results Exceed ADEC Table B at Static Water Interface

MWH
MONTGOMERY WATSON HARZA
Anchorage, Alaska

FIGURE 2-6

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

SITE 88 (SITES 13, 15, 19, 20, & 27) - MAIN OPERATIONS COMPLEX SAMPLING LOCATIONS & SELECTED RESULTS

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TIME: 12-DEC-2002 10:05

LEGEND

- 2001 Surface Soil Sample Location (SS)
- 2001 Surface Soil/Subsurface Soil Sample Location (SS/SB)
- 2001 Surface Water/Sediment Sample Location (SW/SD)
- DRO Diesel Range Organics
- mg/Kg Milligrams per Kilogram
- mg/L Milligrams per Liter
- ND Not Detected
- PCB Polychlorinated Biphenyls
- RRO Residual Range Organics
- VQQ PQL Approximate Due to QC or Matrix Effects
- Gravel Pad
- Tundra or Wetland

Note: Bolded text indicates results that exceed ADEC Clean Up Levels Table B (soil) or C (water).

SW/SD113

	21SW113	21SD113
	(mg/L)	(mg/Kg)
DRO	0.3	**310**
RRO	ND	2,000
PCB	ND	ND

SS172

21SS172	(mg/Kg)
DRO	140
RRO	390
PCB	ND
AS	**11.5**

SW/SD114

	21SW114	21SD114
	(mg/L)	(mg/Kg)
DRO	ND VQQ	**310**
RRO	ND VQQ	2,000
PCB	ND	ND
CR	**36**	**50**

SS/SB169

	21SS169	21SB169
	(mg/Kg)	(mg/Kg)
Depth	0–.5'	1.5–2.0'
DRO	**270**	**640**
RRO	**2,800**	**3,700**
PCB	ND	ND
AS	**7.4**	**3.0**
CR	ND	**27.4**

Site 21

600' x 150' x 1.5' = 135,000 ft^3

135,000 ft^3 x 0.03704 = **5,000 cy**

SS173

21SS173	(mg/Kg)
DRO	**300**
RRO	1,700
PCB	0.32
AS	**4.5**

SS/SB170

	21SS170	21SB170
	(mg/Kg)	(mg/Kg)
Depth	0–.5'	1.5–2'
DRO	**380**	**340**
RRO	2,200	2,300
PCB	0.29	ND
AS	**5.9**	**4.0**

SS/SB171

	21SS171	21SB171
	(mg/Kg)	(mg/Kg)
Depth	0–.5'	1.5–2.0'
DRO	94	ND
RRO	530	25
PCB	ND	ND
AS	**6.1**	**4.3**
CR	**39.8**	**41.0**

NORTH
SCALE IN FEET
0 100

SITE 21
AST 21-3
AST 21-2
AST 21-1
Conc. Sewer Box
Culvert
Conc. Footing
electric relay
conc. footing
98 FORMER EMERGENCY POWER & OPERATION BLDG.
FORMER AST 18N
W.H.
Concrete Slab
Filler pipes & Vents
Electric Relay
111 FORMER SUPPLY WAREHOUSE
Prefab Bldg
MESS
101 EAST DORMITORY
100 WEST DORMITORY
Former Power & Communication To Security Bldg
BOG
U
WH

NOTES

Base maps were digitized from various as-built drawings provided by the Corps of Engineers.

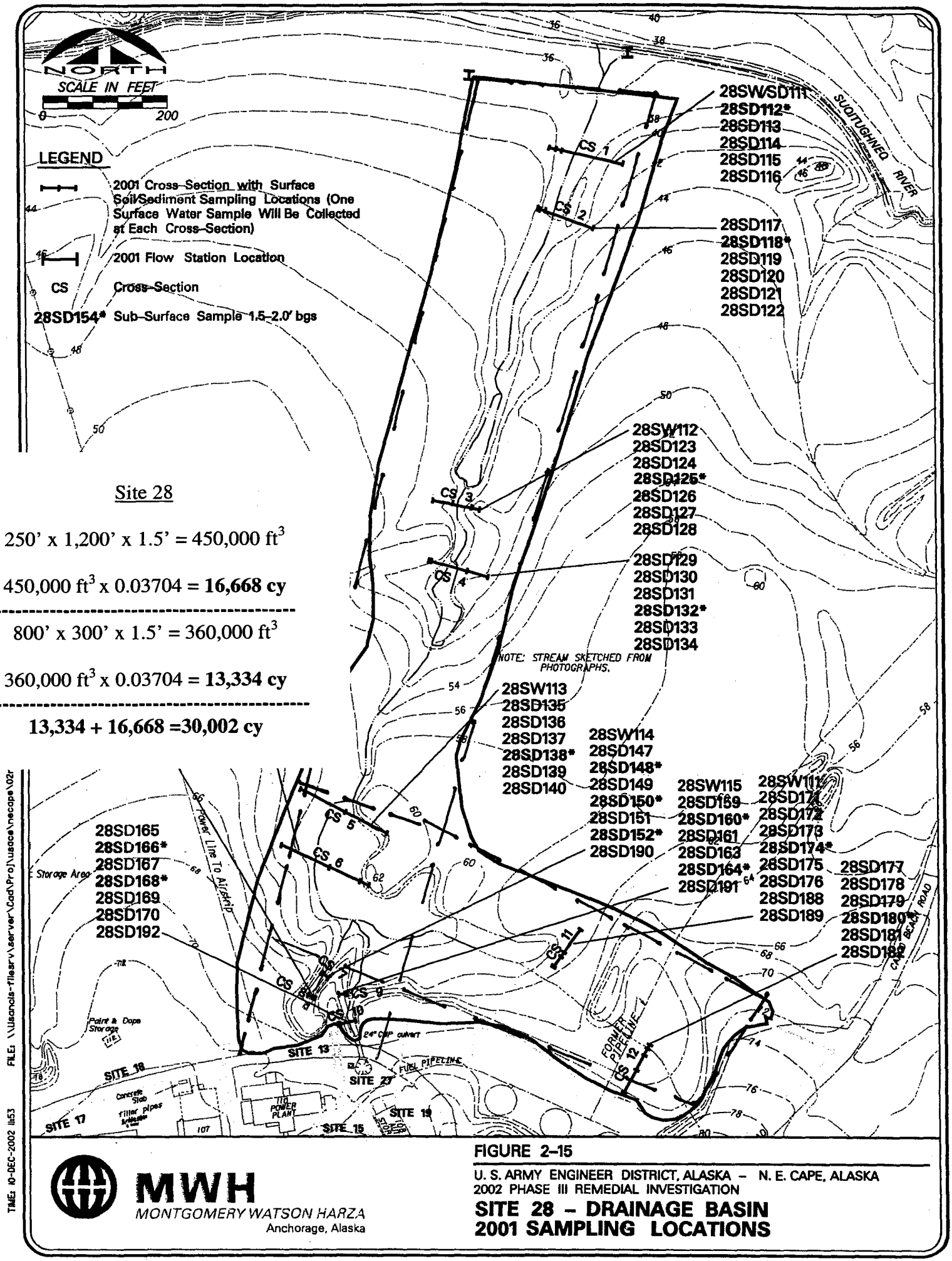
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FIGURE 2–12

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

SITE 21 – WASTEWATER TREATMENT FACILITY
2001 SAMPLING LOCATIONS & SELECTED RESULTS

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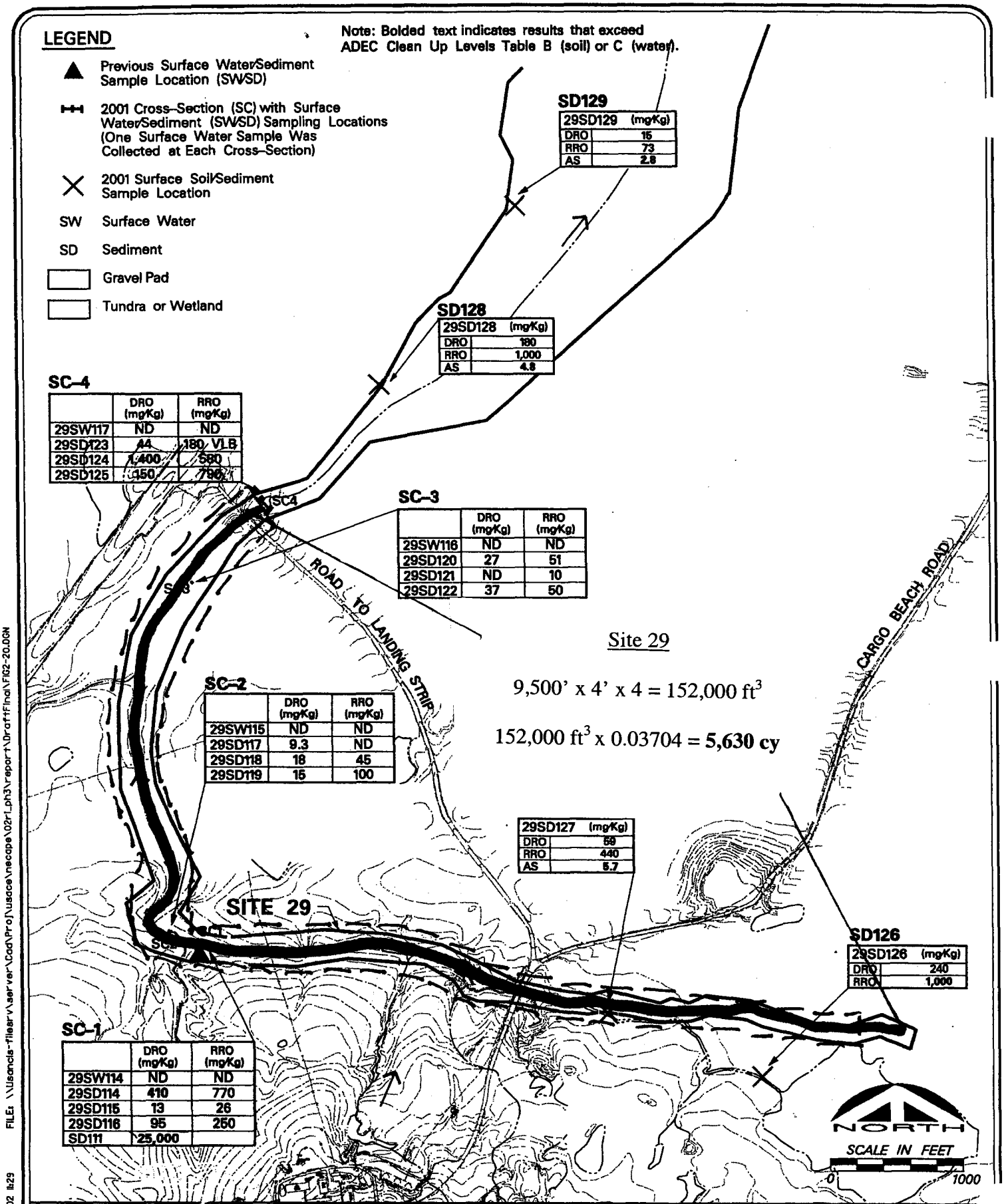
TIME: 10-DEC-2002 11:53

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FIGURE 2-15

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

SITE 28 – DRAINAGE BASIN
2001 SAMPLING LOCATIONS



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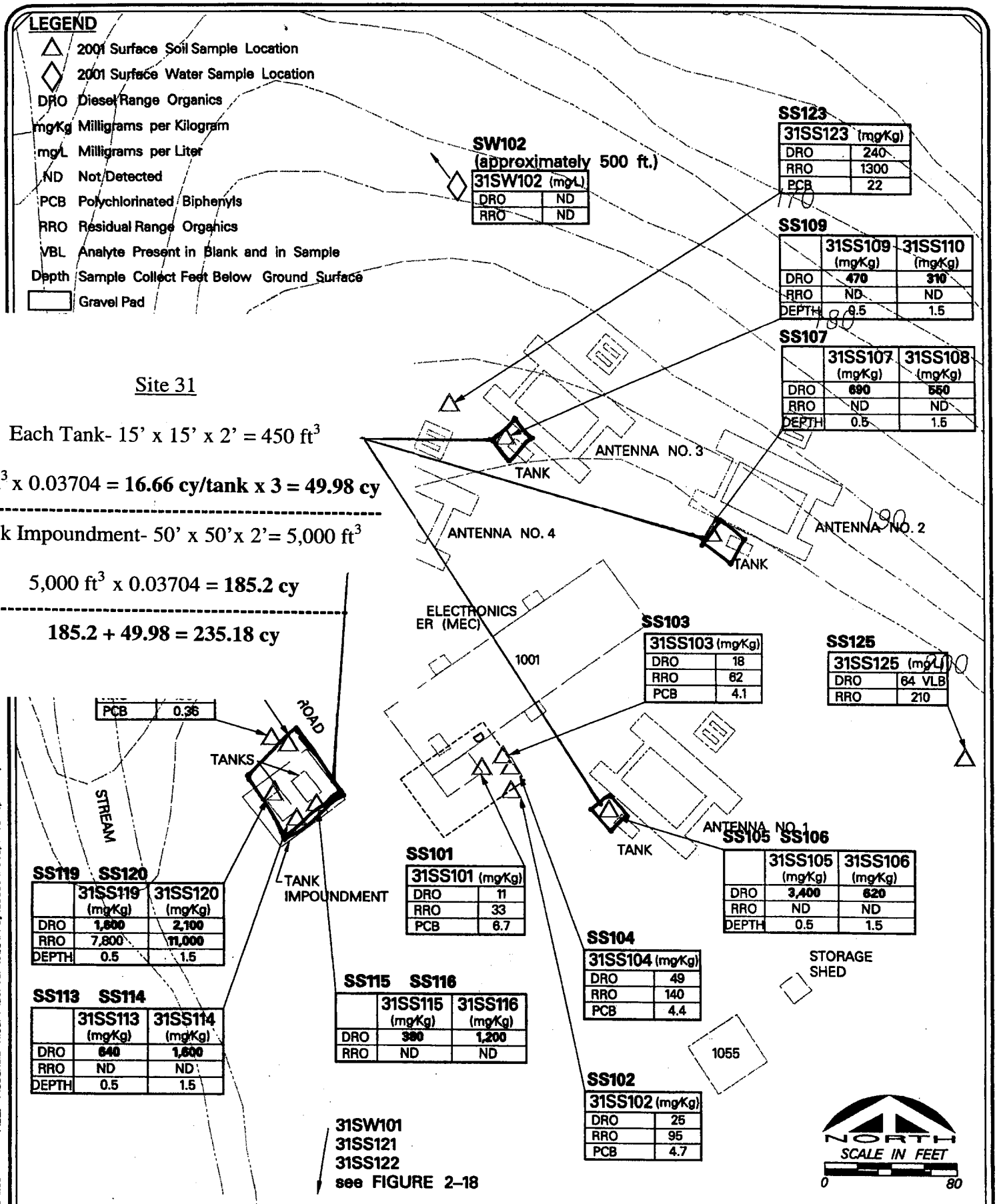
TIME: 12-DEC-2002 11:29

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FIGURE 2-20

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

SITE 29 – SUQITUGHNEQ RIVER
2001 SAMPLING LOCATIONS & SELECTED RESULTS



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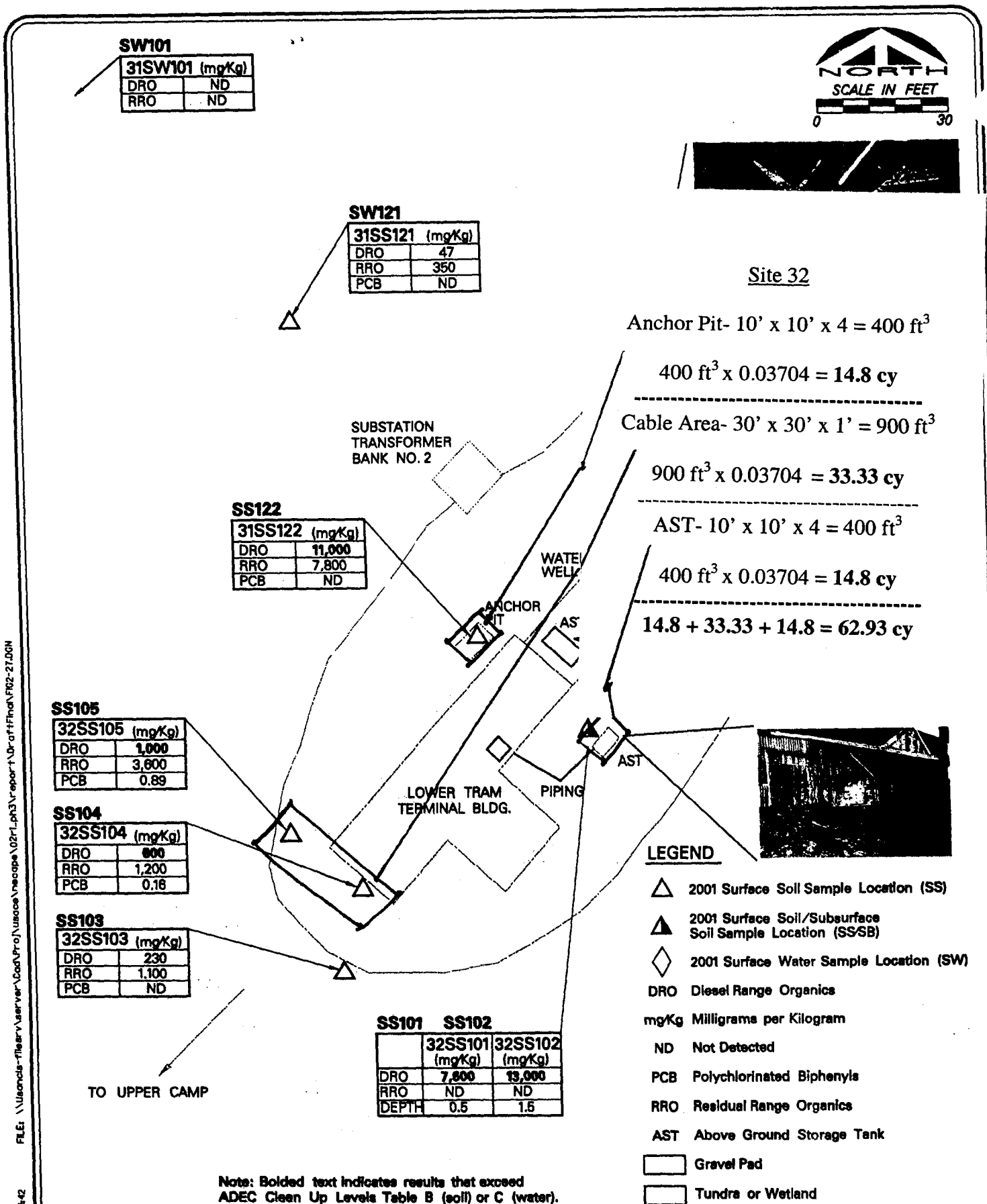
TIME: 12-DEC-2002 11:39

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FIGURE 2-26

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

SITE 31 – WHITE ALICE COMMUNICATIONS SITE
2001 SAMPLING LOCATIONS & SELECTED RESULTS



Note: Bolded text indicates results that exceed ADEC Clean Up Levels Table B (soil) or C (water).

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TIME: 12-DEC-2002 11:42

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FIGURE 2-27

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

SITE 32 – LOWER TRAM TERMINAL
2001 SAMPLING LOCATIONS & SELECTED RESULTS

TIME: 12-DEC- :43 FILE: \\Usancis-filesrv\server\Cad\Proj\usace\necape\02rl_ph3\report\DraftFinal\ ..DGN

Site 33

$5' \times 5' \times 1' = 25\ ft^3$

$25\ ft^3 \times 0.03704 = \mathbf{0.926}\ cy$



SITE 33 GRID SAMPLING

SS103

33SS103 (mg/Kg)	
DRO	**660**
RRO	2,100 VJ
PCB	ND

SS101

33SS101 (mg/Kg)	
DRO	170
RRO	300
PCB	ND

SS102

33SS102 (mg/Kg)	
DRO	150
RRO	270
PCB	ND

UPPER TRAM BUILDING

ENCLOSED TRACK MAN-LIFT

LEGEND

- 2001 Surface Soil Sampling Location
- DRO Diesel Range Organics
- mg/Kg Milligrams per Kilogram
- ND Not Detected
- PCB Polychlorinated Biphenyls
- RRO Residual Range Organics
- Gravel Pad
- Tundra or Wetland

Note: Bolded text indicates results that exceed ADEC Clean Up Levels Table B (soil) or C (water).

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FIGURE 2-28

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

SITE 33 – UPPER TRAM TERMINAL
2001 SAMPLING LOCATIONS & SELECTED RESULTS

LEGEND

- 2001 Surface Soil Sample
- 2001 Surface Soil/Subsurface Sample Location
- DRO Diesel Range Organics
- mg/Kg Milligrams per Kilogram
- ND Not Detected
- PCB Polychlorinated Biphenyls
- RRO Residual Range Organics
- Gravel Pad
- Tundra or Wetland

Site 34

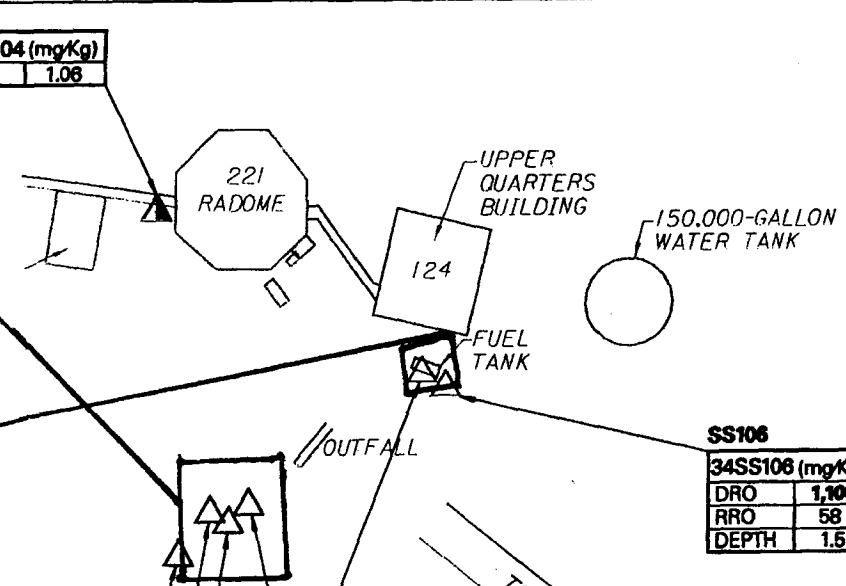
Outfall- 40' x 40' x 1' = 1,600 ft^3

1,600 ft^3 x 0.03704 = **59.26 cy**

AST- 10' x 10' x 2' = 200 ft^3

200 ft^3 x 0.03704 = **7.4 cy**

59.26 + 7.4 = 66.66 cy



SS104

34SS104 (mg/Kg)	
PCB	1.06

SS106

34SS106 (mg/Kg)	
DRO	**1,100**
RRO	58
DEPTH	1.5

SS105

34SS105 (mg/Kg)	
DRO	**960**
RRO	ND VQO

SS107

34SS107 (mg/Kg)	
DRO	41
RRO	95
PCB	0.05

SS102

34SS102 (mg/Kg)	
DRO	14
RRO	77
PCB	ND

SS110

34SS110 (mg/Kg)	
DRO	230
RRO	620
PCB	0.23

SS109

34SS109 (mg/Kg)	
DRO	**300**
RRO	1,200
PCB	0.21

SS108

34SS108 (mg/Kg)	
DRO	220
RRO	280
PCB	0.36

SS103

34SS103 (mg/Kg)	
DRO	13
RRO	76
PCB	ND



SITE 34 GRID SAMPLING

NORTH

SCALE IN FEET

0 80

Note: Bolded text indicates results that exceed ADEC Clean Up Levels Table B (soil) or C (water).

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FIGURE 2-29

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

SITE 34 – UPPER CAMP
2001 SAMPLING LOCATIONS & SELECTED RESULTS